



2022 Annual Groundwater Monitoring and Corrective Action Report

Plant Yates – Ash Pond 2 Newnan, Georgia

January 31, 2023



2022 Annual Groundwater Monitoring and Corrective Action Report

Plant Yates – Ash Pond 2 Newman, Georgia

January 31, 2023

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Summary

This summary of the 2022 Annual Monitoring and Corrective Action Report provides the status of groundwater monitoring and corrective action program in 2022 at Georgia Power Company's (Georgia Power's) Plant Yates Ash Pond (AP) AP-2 (the Site). Arcadis U.S., Inc. (Arcadis) prepared this summary 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 materials resulting from power generation have historically been transferred and stored at the Site. CCR has been removed from AP-2 West and AMAX Cove, and CCR removal is ongoing at the Site.

Groundwater at the Site is monitored using a comprehensive monitoring system of wells installed to meet federal and state monitoring requirements. Routine sampling and reporting began in 2017 after the completion of eight background sampling events. Based on groundwater conditions at the Site, an assessment monitoring program was established on January 15, 2018.

During the 2022 reporting period, Arcadis conducted two groundwater sampling events in February and August/September. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR rule, groundwater results for February and August/September 2022 data were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of



Plant Yates and the Site

Appendix III² parameters in wells provided in the table below. There were no statistically significant levels (SSLs) detected for Appendix IV³ parameters⁴. During the 2022 annual reporting period, the Site remained in assessment monitoring.

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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.

Appendix III Parameter	February 2022	August/September 2022
Boron	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I
Chloride	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-28S
Total Dissolved Solids		YGWC-26I, YGWC-28S

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program through 2022, 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.

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Acronyms and Abbreviations

Arcadis Arcadis, Inc.

AP Ash Pond

CCR Coal Combustion Residuals

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

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 Annual Groundwater Monitoring and Corrective Action Report for the Georgia Power Company Plant Yates Ash Pond 2 (AP-2) 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 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.



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Date

1 Introduction

This 2022 Annual Groundwater Monitoring and Corrective Action Report documents groundwater monitoring conducted at the Georgia Power Company (GPC) Plant Yates Ash Pond (AP) AP-2 (the Site) in February and August/September 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.

This report presents the results from the semiannual monitoring for Appendix III and IV constituents conducted in February and August/September 2022 in accordance with 40 CFR § 257.95.

1.1 Background

Plant Yates is located on 708 Dyer Road, on the east bank of the Chattahoochee River in Coweta County, Georgia near the Coweta and Carroll County line, 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. Areas where CCR Removal Reports have been submitted to GA EPD are shown on **Figure 2**. The layout of Plant Yates, the monitoring well network, and other Site features is shown on **Figure 3**.

A permit application to comply with EPD rules was submitted in November 2018 and is currently under review. AP-2 was placed in an assessment monitoring program based on results of the 2017 Annual Groundwater and Corrective Action Monitoring Report, which was implemented on January 15, 2018. A notice of assessment monitoring was placed in the operation record on May 15, 2018. Semiannual monitoring for the CCR unit is performed in accordance with the monitoring requirements 40 CFR § 257.90 through 257.95 of the Federal CCR Rule and the GAEPD rules for Solid Waste Management 391-3-4-.10(6)(a).

1.2 Regional 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 2022).

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) that have been 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 at the Site. The hydraulic conductivity at these locations is typically in a range from 10⁻³ to 10⁻⁴ centimeters per second based on multiple rising-head and falling-head slug tests (ACC 2022). 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

Pursuant to 40 CFR § 257.91, a groundwater monitoring system was installed within the uppermost aquifer at the Site. The monitoring system is designed to monitor groundwater passing the waste boundary of the CCR Unit within the uppermost aquifer. Wells are located to monitor upgradient and downgradient conditions based on groundwater flow direction. The detection monitoring well network is summarized in **Table 1**.

As typical of the Piedmont Physiographic Province, there is a degree of connectivity between the saprolite and partially weathered rock units (Harned, D.A., and Daniel, C.C., III 1992). Fractured bedrock may or may not be connected to the overlying units, and flow may be controlled by geologic structures present. Based on the Site hydrogeology, the monitoring system is designed to monitor groundwater flow in the saprolite, the transition zone, and the upper bedrock. Wells suffixed with an "S" are installed in saprolite, an "I" indicates partially weathered rock (transition zone), and "D" indicates upper bedrock. The CCR unit AP-2 was established along a topographically low area formed by an unnamed tributary. Based on the Site hydrogeology, the monitoring system is designed to monitor groundwater flow in the overburden, the transition zone, and the upper bedrock. The monitoring well network for the Site is illustrated on **Figure 3**.

2 Groundwater Monitoring

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed in February and August/September 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 AP-2 during this annual reporting period. During the February and August/September 2022 events, groundwater samples were collected and analyzed for both 40 CFR 257 Appendix III and 40 CFR 257 Appendix IV constituents to meet the requirement of 40 CFR § 257.95(b). Field sampling logs are provided in **Appendix A**.

2.1 Monitoring Well Installation and Maintenance

Monitoring well YGWC-29I required abandonment due to dam construction along the river. Well abandonment began on October 13, 2022 and was completed on October 17, 2022. A well abandonment report was submitted on December 15, 2022 under separate cover and is included in **Appendix A.** YGWC-29I abandonment notwithstanding, the network remained the same as in the 2021 reporting year. A replacement monitoring well will be installed in January 2023 once the dam construction work is complete. Monitoring well-related activities were limited to visual inspection of well conditions before sampling, recording the site conditions, and performing exterior maintenance necessary for sampling under safe and clean conditions. 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)). In February and August 2022, monitoring wells were inspected to identify the need for corrective actions as documented in **Appendix A**. There were no maintenance issues during this period that required corrective action.

2.2 Assessment Monitoring

AP-2 was placed in an assessment monitoring program based on results of the 2017 Annual Groundwater and Corrective Action Monitoring Report, which was implemented on January 15, 2018. A notice of assessment monitoring was placed in the operation record on May 15, 2018. Monitoring wells at AP-2 were sampled for Appendix III and Appendix IV parameters in February and August/September 2022 pursuant to 40 CFR § 257.95(b) and 40 CFR § 257.95(d)(1). A summary of the groundwater sampling event is provided in **Table 2**.

3 Sampling Methodology and Analysis

Groundwater monitoring methods at the Site are described in the following sections.

3.1 Groundwater Flow Direction, Gradient, and Velocity

Before each sampling event, static water levels were recorded from piezometers and wells at AP-2 as noted in **Table 3**. Saprolite and transition zone groundwater elevation data were used to prepare potentiometric surface elevation contour maps from the February and August gauging event. Sitewide potentiometric surface maps for February and August 2022 are provided in **Figures 4 and 5**, respectively. AP-2 potentiometric surface maps for February and August 2022 are provided in **Figures 6 and 7**, respectively. The groundwater flow direction for the saprolite and transition zone wells is generally northeast, southwest, and west toward AP-2 where it flows west to the Chattahoochee River. The groundwater flow direction is consistent with historical patterns. It is interpreted that variations between saprolite/transition zone wells and deep bedrock wells are attributed to bedrock geologic

structural controls, and therefore do not reflect the surficial aquifer potentiometric surface. Based on this interpretation, the deep bedrock potentiometric surface was not used for contouring.

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

$$v=rac{k\left(rac{dh}{dl}
ight)}{n_e}$$
 where:
$$v= ext{groundwater seepage velocity}$$

$$k= ext{hydraulic conductivity}$$

$$ext{dh/dl}= ext{hydraulic gradient}$$

$$ext{n}_e= ext{effective porosity}$$

Groundwater flow velocities were calculated for the Site based on hydraulic gradients, average hydraulic conductivity based on previous slug test data, and an estimated effective porosity of 0.20 (based on a review of several sources including Driscoll 1986, USEPA 1989, and Freeze and Cherry 1979).

Calculated groundwater flow velocities for February and August 2022 are presented in **Table 4**. The calculated average groundwater linear flow velocity ranges from approximately 29 feet per year to 33 feet per year. These calculated groundwater velocities across the Site are generally consistent with historical calculations and with expected velocities in the site-specific geology, thereby, confirming the groundwater monitoring network is properly located to monitor the uppermost aquifer.

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, 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;
- ± 5% for specific conductance;
- Turbidity measurements less than 5 nephelometric turbidity units; and
- ±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 their collection.

The samples were submitted to Pace Analytical Services, LLC following chain-of-custody protocol. Stabilization logs for each well and daily equipment calibration records are included in **Appendix A**.

3.3 Laboratory Analyses

Samples were submitted for laboratory analysis from each monitoring well as summarized in **Table 2**. During the February and August/September 2022 sampling events, the AP-2 wells were sampled and analyzed for Appendix III parameters as well as for Appendix IV parameters according to 40 CFR § 257.95(b). **Table 5** provides a summary of the constituents monitored during the events. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports, along with chain-of-custody records included in **Appendix B**.

Analytical data collected from the February and August/September 2022 sampling events is summarized in **Table 6**. 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.

3.4 Data Quality Assurance/Quality Control and Validation

During each 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 February and August/September 2022 data validation reports included in **Appendix B** 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, quality control samples, and data associated with the chemical analytical results. The data are considered usable for meeting project objectives, and the results are considered valid. The complete results of the data quality evaluations are provided in **Appendix B**.

Values followed by a "J" flag indicate that the value is an estimated analyte concentration detected between the 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 III and IV groundwater monitoring data was performed on data from the assessment monitoring events pursuant to 40 CFR §§ 257.93–95 following the established, certified statistical methods. 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, USEPA 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 Appendix III constituents is performed to determine whether constituents have returned to background conditions.

4.1.1 Appendix III Statistical Methods

Groundwater data were evaluated using interwell prediction limits for Appendix III parameters. This method uses sitewide pooled upgradient monitoring well data to establish a background statistical limit. Data from the February and August/September 2022 events were compared to the statistical limit to determine whether concentrations exceeded background levels. The statistical method incorporates an optional 1-of-2 verification resample plan. When an initial statistically significant increase (SSI) or questionable result occurs, a second sample may be collected to verify the initial result or determine whether the result was an outlier. If resampling is performed, and the initial finding is not verified, the resampled value replaces the initial finding. When the resample confirms the initial result, both values remain in the database, and an SSI is declared. The following criteria were applied to the evaluation:

- Statistical analyses were not performed on analytes exhibiting 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 to 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 prediction limits were used on data containing greater than 50 percent non-detects.

4.1.2 Assessment Monitoring Statistical Methods

Parametric tolerance limits were used to calculate background limits from pooled upgradient well data from the wells identified in **Table 1** for Appendix IV constituents 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:

o Cobalt: 0.006 milligram per liter (mg/L)

Lead: 0.015 mg/LLithium: 0.040 mg/LMolybdenum: 0.100 mg/L.

 The background level for constituents for which the background level is higher than the MCL or rule identified GWPS.

GA EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) on February 22, 2022, to incorporate updated Federal GWPS where an MCL has not been established, as noted above, except when site specific background concentrations of these constituents are higher. Statistical evaluation for the February and August/September 2022 events were updated to reflect these changes.

GWPS have been established for statistical comparison of Appendix IV constituents at AP-2. **Table 7** summarizes the background levels established at the monitoring well for the February and August/September 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 established under federal and state rules. A sampling result from a well/constituent pair was considered to exceed its respective standard only when results from 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

Appendix III statistical analysis for wells associated with the Site was performed to determine whether constituent concentrations have returned to background levels. Appendix IV assessment monitoring parameters were evaluated to determine whether concentrations statistically exceed the established GWPS. Appendix III and Appendix IV data from the February and August/September 2022 semiannual events were statistically analyzed in accordance with the Statistical Analysis Plan (Groundwater Stats 2019).

4.2.1 Appendix III Monitoring Constituents

Based on review of the Appendix III statistical analysis from the February and August/September 2022 sampling events presented in **Appendix C**, Appendix III concentrations have not returned to background levels, and assessment monitoring should continue pursuant to 40 CFR § 257.95(f). A table summarizing these constituents and wells is provided in **Appendix C**.

4.2.2 Appendix IV Assessment Monitoring Constituents

Statistical analysis of the February and August/September 2022 Appendix IV data 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. Sanitas™ statistical output data for calculation of site-specific background concentrations and confidence intervals for each Appendix IV constituent in downgradient wells are provided in **Appendix C**.

5 Monitoring Program Status

In accordance with 40 CFR § 257.94(e), an assessment monitoring program was implemented in January 2018. No statistical exceedance of a GWPS for Appendix IV parameters has been identified. Pursuant to 40 CFR § 257.96(b), GPC will continue to monitor groundwater at AP-2 in accordance with the assessment monitoring program regulations of 40 CFR § 257.95 due to SSIs for Appendix III parameters.

6 Conclusions and Future Actions

Statistical evaluations of the groundwater monitoring data for the Site identified no exceedance of a GWPS for an Appendix IV constituent during the February and August/September 2022 semiannual sampling events. The next semiannual monitoring event is scheduled for February 2023. The February 2023 semiannual monitoring event will include sampling and analysis of all Appendix III and IV constituents. Replacement detection well YGWC-29IA was installed the week of January 9, 2023.

7 References

- ACC. 2022. *Plant Yates, Ash Pond 2 Hydrogeologic Assessment Report.* Prepared for Georgia Environmental Protection Division. October 2022.
- Driscoll, Fletcher G. 1986. Groundwater and Wells. Johnson Screens, Saint Paul, Minnesota. 1089 pp.
- Freeze, R.A. and Cherry, J.A. 1979. Groundwater. Prentice-Hall, Englewood Cliffs, New Jersey. 604 pp.
- Groundwater Stats Consulting. 2019. *Statistical Analysis Plan Plant Yates Ash Pond 2*. Prepared for Georgia Environmental Protection Division.
- Harned, D.A., and Daniel D.D., III, 1992. The transition zone between bedrock and saprolite Conduit for contamination? Ground water in the Piedmont Proceedings of a conference on ground water in the Piedmont of the eastern United States: Clemson, S.C. p. 336-348.
- Newell, C.J., L.P. Hopkins, and P.B. Bedient. 1990. A Hydrogeologic Database for Ground-Water Modeling. *Ground Water*. 28(5):703-714.
- State Waste Management Board. 2016. State Solid Waste Management Regulations (9VAC20 81 et seq.). January.
- USEPA. 1989. RCRA Facility Investigation (RFI) Guidance, Interim Final, Vol I. [EPA 530/SW-89-031], OWSER Directive 9502.00-6D.

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- USEPA. 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance. Office of Resource Conservation and Recovery Program Implementation and Information Division. March.
- USEPA. 2011. Data Validation Standard Operating Procedures. Science and Ecosystem Support Division. Region IV. Athens, GA. September.
- USEPA. 2017. National Functional Guidelines for Inorganic Superfund Methods Data Review. Office of Superfund Remediation and Technology Innovation. OLEM 9355.0-135 [EPA-540-R-2017-001]. Washington, DC. January.

Tables

Table 1
Monitoring Network Well Summary
2022 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2



Well ID	Installation Date	Top of Casing Elevation (ft) Depth to Bottom (ft bTOC)		Bottom Elevation (ft)	Depth to Top of Screen (ft bTOC)	Top of Screen Elevation (ft)	Hydraulic Location / Purpose	
Upgradient V	Vells							
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	
GWA-2	4/12/2007	805.62	52.02	753.60	41.82	763.80	Upgradient	
Detection We	ells							
YGWC-26S	10/1/2015	716.28	40.18	676.10	29.88	686.40	Downgradient	
YGWC-26I	9/30/2015	715.91	69.81	646.10	59.51	656.40	Downgradient	
YGWC-27S	10/7/2015	716.52	40.52	676.00	30.22	686.30	Downgradient	
YGWC-27I	10/7/2015	716.19	79.99	636.20	69.69	646.50	Downgradient	
YGWC-28S	10/5/2015	717.95	44.95	673.00	34.65	683.30	Downgradient	
YGWC-28I	10/5/2015	717.93	69.93	648.00	59.63	658.30	Downgradient	
YGWC-29I	10/1/2015	717.39	39.59	677.80	29.29	688.10	Downgradient	
Assessment V								
PZ-1S	5/20/2014	836.84	36.34	800.50	26.04	810.80	Piezometer	
PZ-3S	5/20/2014	796.39	42.39	754.00	32.09	764.30	Piezometer	
PZ-13S	5/20/2014	807.79	43.79	764.00	33.49	774.30	Piezometer	
PZ-13I	5/20/2014	807.62	59.22	748.40	48.92	758.70	Piezometer	
PZ-14I	5/20/2014	749.06	50.86	698.20	40.56	708.50	Piezometer	
PZ-25S	9/2/2015	766.60	56.80	709.80	46.50	720.10	Piezometer	
PZ-25I	9/3/2015	766.38	84.58	681.80	74.28	692.10	Piezometer	
PZ-31S	9/24/2015	738.62	34.72	703.90	24.42	714.02	Piezometer	

Elevation is presented in U.S. Survey Feet (North American Vertical Datum of 1988).

Acronyms and Abbreviations:

bTOC = below top of casing

ft = feet





Well ID	Hydraulic	Semiannual Monitoring ¹	Semiannual Monitoring ¹			
Well ID	Location	February 8 - 11, 2022	August 31 - September 1, 2022			
YGWA-4I	Upgradient ²	X	X			
YGWA-5I	Upgradient ²	X	X			
YGWA-5D	Upgradient ²	X	X			
YGWA-17S	Upgradient ²	X	X			
YGWA-18S	Upgradient ²	X	X			
YGWA-18I	Upgradient ²	X	X			
YGWA-20S	Upgradient ²	X	X			
YGWA-21I	Upgradient ²	X	X			
YGWA-39	Upgradient ²	X	X			
YGWA-40	Upgradient ²	X	X			
YGWA-47	Upgradient ²	X	X			
GWA-2	Upgradient ²	X	X			
YGWA-1I	Upgradient	X	X			
YGWA-1D	Upgradient	X	X			
YGWA-2I	Upgradient	X	X			
YGWA-3I	Upgradient	X	X			
YGWA-3D	Upgradient	X	X			
YGWA-14S	Upgradient	X	X			
YGWA-30I	Upgradient	X	X			
YGWC-26S	Downgradient	X	X			
YGWC-26I	Downgradient	X	X			
YGWC-27S	Downgradient	X	X			
YGWC-27I	Downgradient	X	X			
YGWC-28S	Downgradient	X	X			
YGWC-28I	Downgradient	X	X			
YGWC-29I	Downgradient	X	X			

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

Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257 Appendix

^{1.} All wells analyzed for Appendix III and Appendix IV.

^{2.} Pooled upgradient wells





Well ID	Date	TOC Elevation (ft)	Depth to Water (bTOC)	Groundwater Elevation (ft)
Downgradient We	ells - February 2022			
YGWC-26S	2/7/2022	716.28	25.36	690.92
YGWC-26I	2/7/2022	715.91	26.70	689.21
YGWC-27S	2/7/2022	716.52	29.76	686.76
YGWC-27I	2/7/2022	716.19	29.70	686.49
YGWC-28S	2/7/2022	717.95	27.88	690.07
YGWC-28I	2/7/2022	717.93	29.45	688.48
YGWC-29I	2/7/2022	717.39	27.92	689.47
PZ-01S	2/7/2022	836.84	32.84	804.00
PZ-03S	2/7/2022	796.39	36.47	759.92
PZ-13S	2/7/2022	807.79	36.37	771.42
PZ-13I	2/7/2022	807.62	40.05	767.57
PZ-14I	2/8/2022	749.06	19.58	729.48
PZ-25S	2/7/2022	766.60	43.07	723.53
PZ-25I	2/7/2022	766.38	46.02	720.36
PZ-31S	2/8/2022	738.62	26.15	712.47
Upgradient Wells	- February 2022			
YGWA-4I	2/7/2022	784.21	22.29	761.92
YGWA-5I	2/7/2022	784.54	17.96	766.58
YGWA-5D	2/7/2022	784.53	19.54	764.99
YGWA-17S	2/7/2022	783.05	11.74	771.31
YGWA-18S	2/7/2022	790.57	19.81	770.76
YGWA-18I	2/7/2022	790.57	23.05	767.52
YGWA-20S	2/7/2022	767.12	11.00	756.12
YGWA-21I	2/7/2022	783.70	30.18	756.10
YGWA-39	2/7/2022	818.19	17.62	800.57
YGWA-40	2/7/2022	815.73	22.71	793.02
YGWA-1I	2/7/2022	836.60	37.90	798.70
YGWA-1D	2/7/2022	837.25	48.94	788.31
YGWA-2I	2/7/2022	866.25	44.92	821.33
YGWA-3I	2/7/2022	796.55	52.35	744.20
YGWA-3D	2/7/2022	796.78	30.28	766.50
YGWA-14S	2/8/2022	748.76	18.58	730.18
YGWA-30I	2/8/2022	762.58	43.98	718.60
YGWA-47	2/7/2022	758.22	34.83	723.39
GWA-2	2/7/2022	805.62	36.39	769.23





Well ID	Date	TOC Elevation (ft)	Depth to Water (bTOC)	Groundwater Elevation (ft)
Downgradient We	ells - August 2022			
YGWC-26S	8/29/2022	716.28	27.64	688.64
YGWC-26I	8/29/2022	715.91	27.78	688.13
YGWC-27S	8/29/2022	716.52	30.75	685.77
YGWC-27I	8/29/2022	716.19	30.66	685.53
YGWC-28S	8/29/2022	717.95	29.40	688.55
YGWC-28I	8/29/2022	717.93	30.26	687.67
YGWC-29I	8/29/2022	717.39	30.01	687.38
PZ-01S	8/29/2022	836.84	32.20	804.64
PZ-03S	8/29/2022	796.39	35.47	760.92
PZ-13S	8/29/2022	807.79	36.41	771.38
PZ-13I	8/29/2022	807.62	41.19	766.43
PZ-14I	8/29/2022	749.06	21.04	728.02
PZ-25S	8/29/2022	766.60	46.48	720.12
PZ-25I	8/29/2022	766.38	50.17	716.21
PZ-31S	8/29/2022	738.62	30.34	708.28
Jpgradient 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	700.55
YGWA-145 YGWA-30I	8/29/2022	746.76	43.83	720.50
YGWA-47	8/29/2022	758.22	28.16	730.06
GWA-2	8/29/2022	805.62	36.23	769.39

Elevation is presented in U.S. Survey Feet (North American Vertical Datum of 1988).

Acronyms and Abbreviations:

bTOC = below top of casing

ft = feet

TOC = top of casing



Equation

 $\frac{V = K \text{ (dh/dl)}}{n_e} \qquad \qquad \text{where:} \qquad \qquad V = \text{groundwater velocity} \\ K = i = \text{hydraulic conductivity}$

dh/dl = i = hydraulic gradient $n_e = effective porosity$

Values Used in Calculation

	Value		Source				
K _{max} :	3.02E-03	cm/sec					
	8.57	ft/day					
K _{min} :	1.00E-06	cm/sec	0				
	0.003	ft/day	See note 1				
K _{avg}	1.50E-04	cm/sec					
	0.43	ft/day					
Dis	stance from:						
PZ-01S to YGWA-14S 2,610		feet					
PZ-13S to YGWC-28S	1,460	feet					
YGWA-14S to PZ-31S	575	feet					
Ground	water Elevation	n	Date Collected:				
PZ-01S	804.00						
YGWA-14S	730.18						
PZ-13S	771.42	feet	February 2022				
YGWC-28	690.07	1001	1 oblidary 2022				
YGWA-14S	730.18						
PZ-31S	712.47						
Ground	water Elevation	n	Date Collected:				
PZ-01S	804.64						
YGWA-14S	728.58						
PZ-13S	771.38	feet	August 2022				
YGWC-28	688.55	1001	, tagast 2022				
YGWA-14S	728.58						
PZ-31S	708.28						
			Hydraulic gradient from:				
i ₁	= 0.028	unitless	PZ-01S to YGWA-14S (Feb. 2022)				
i ₂	2 = 0.056	unitless	PZ-13S to YGWC-28S (Feb. 2022)				
i ₃	3 = 0.031	unitless	YGWA-14S to PZ-31S (Feb. 2022)				
i _{avç}	3 = 0.038	unitless	Average				
			Hydraulic gradient from:				
i,	= 0.029	unitless	PZ-01S to YGWA-14S (Aug. 2022)				
ia	2 = 0.057	unitless	PZ-13S to YGWC-28S (Aug. 2022)				
-	3 = 0.035	unitless	YGWA-14S to PZ-31S (Aug. 2022)				
	g = 0.040	unitless	Average				
n.	e = 0.20	unitless	See note 2				

Table 4 Groundwater Flow Velocity Calculations - February and August 2022 2022 Annual Groundwater Monitoring and Corrective Action Report Georgia Power Company



Minimum Linear Flow Velocity

Plant Yates - AP-2

 February 2022
 August 2022

 $V_{min} = (0.003) (0.038)$ $V_{min} = (0.003) (0.040)$

 0.20
 0.20

Maximum Linear Flow Velocity

 February 2022
 August 2022

 $V_{max} = (8.57) (0.038)$ $V_{max} = (8.57) (0.040)$

 0.20
 0.20

 V_{min} = 0.0006 ft/day, or 0.2 ft/year V_{min} = 0.0006 ft/day, or 0.2 ft/year V_{max} = 1.6 ft/day, or 584 ft/year V_{max} = 1.7 ft/day, or 621 ft/year

Average Linear Flow Velocity

 February 2022
 August 2022

 $V_{avg} = (0.43)(0.038)$ $V_{avg} = (0.43)(0.040)$

 0.2
 0.2

 $V_{avg} = 0.08 \text{ ft/day, or 29 ft/year}$ $V_{avg} = 0.09 \text{ ft/day, or 33 ft/year}$

Notes:

- 1. Slug tests performed by Atlantic Coast Consulting, Inc. at AP-2 (2014-2017)
- 2. Default value recommended by USEPA for silty sand-type soil (USEPA 1989)





40 CFR 257 Appendix III	40 CFR 257 Appendix IV
Boron	Antimony
Calcium	Arsenic
Chloride	Barium
Fluoride	Beryllium
рН	Cadmium
Sulfate	Chromium
Total Dissolved Solids	Cobalt
	Fluoride
	Lead
	Lithium
	Mercury
	Molybdenum
	Combined Radium - 226/228
	Selenium
	Thallium

CFR = Code of Federal Regulations



	Analyte	YGWC-26S	YGWC-26S	YGWC-26I	YGWC-26I	YGWC-27S	YGWC-27S	YGWC-27I	YGWC-27I	YGWC-28S	YGWC-28S
	Analyte	2/10/2022	8/31/2022	2/10/2022	8/31/2022	2/8/2022	9/1/2022	2/10/2022	9/1/2022	2/8/2022	9/1/2022
	рН	5.31	5.61	5.84	5.77	6.22	6.13	6.23	6.13	6.30	6.59
	Boron	0.79	0.70	0.79	0.64	1.1	1.0	2.5	2.3	2.4	2.2
	Calcium	11.6	10.8	16.4	16.4	27.2	21.3	27.4	28.2	26.7	33.1
Appendix III	Chloride	14.0	15.0	15.4	16.6	13.0	10.4	13.1	13.4	18.3	16.5
Appendix III	Fluoride	< 0.050	0.076 J	< 0.050	0.082 J	0.087 J	0.12	0.059 J	0.10	0.14	0.16
	Sulfate	86.5	90.2	81.8	85.9	16.3	13.5	2.4	2.5	10.5	13.4
	Total Dissolved Solids	168	206	207	228	159	124	190	193	216	225
	Antimony	< 0.00078	< 0.00078	< 0.00078	0.0010 J	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	0.0032 J	< 0.0022	0.0028 J	< 0.0022	0.0019 J	< 0.0022	0.0040 J	< 0.0022	0.0042 J	< 0.0022
	Barium	0.027	0.024	0.063	0.057	0.068	0.049	0.079	0.076	0.20	0.20
	Beryllium	0.000093 J	0.000074 J	< 0.000054	< 0.000054	< 0.000054	< 0.000054	0.00013 J	0.00012 J	< 0.000054	< 0.000054
	Cadmium	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Ammandis IV	Cobalt	0.0026 J	0.0026 J	< 0.00039	< 0.00039	0.0017 J	0.0015 J	0.0051	0.0096	0.00091 J	0.00071 J
Appendix IV	Lead	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	< 0.00073	< 0.00073	0.0086 J	0.0074 J	< 0.00073	< 0.00073	0.0072 J	0.0069 J	< 0.00073	< 0.00073
	Mercury	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00019 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.0018 J	0.0016 J	0.00082 J	< 0.00074
	Combined Radium - 226/228	0.431 U	0.602 U	0.149 U	0.179 U	0.781 U	0.147 U	1.23	2.93	0.964	0.127 U
	Selenium	< 0.0014	< 0.0014	0.0042 J	0.0036 J	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	< 0.00018	< 0.00018	< 0.00018	< 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 = Consituents for Detection Monitoring - 40 CFR Part 257 Appendix III.

Appendix IV = Consituents 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 qualifited by the laboratory as estimated.



	Analyte	YGWC-26S	YGWC-26S	YGWC-26I	YGWC-26I	YGWC-27S	YGWC-27S	YGWC-27I	YGWC-27I	YGWC-28S	YGWC-28S
	Analyte	2/10/2022	8/31/2022	2/10/2022	8/31/2022	2/8/2022	9/1/2022	2/10/2022	9/1/2022	2/8/2022	9/1/2022
	рН	5.31	5.61	5.84	5.77	6.22	6.13	6.23	6.13	6.30	6.59
	Boron	0.79	0.70	0.79	0.64	1.1	1.0	2.5	2.3	2.4	2.2
	Calcium	11.6	10.8	16.4	16.4	27.2	21.3	27.4	28.2	26.7	33.1
Appendix III	Chloride	14.0	15.0	15.4	16.6	13.0	10.4	13.1	13.4	18.3	16.5
Appendix III	Fluoride	< 0.050	0.076 J	< 0.050	0.082 J	0.087 J	0.12	0.059 J	0.10	0.14	0.16
	Sulfate	86.5	90.2	81.8	85.9	16.3	13.5	2.4	2.5	10.5	13.4
	Total Dissolved Solids	168	206	207	228	159	124	190	193	216	225
	Antimony	< 0.00078	< 0.00078	< 0.00078	0.0010 J	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	0.0032 J	< 0.0022	0.0028 J	< 0.0022	0.0019 J	< 0.0022	0.0040 J	< 0.0022	0.0042 J	< 0.0022
	Barium	0.027	0.024	0.063	0.057	0.068	0.049	0.079	0.076	0.20	0.20
	Beryllium	0.000093 J	0.000074 J	< 0.000054	< 0.000054	< 0.000054	< 0.000054	0.00013 J	0.00012 J	< 0.000054	< 0.000054
	Cadmium	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Annandiy IV	Cobalt	0.0026 J	0.0026 J	< 0.00039	< 0.00039	0.0017 J	0.0015 J	0.0051	0.0096	0.00091 J	0.00071 J
Appendix IV	Lead	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	< 0.00073	< 0.00073	0.0086 J	0.0074 J	< 0.00073	< 0.00073	0.0072 J	0.0069 J	< 0.00073	< 0.00073
	Mercury	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00019 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.0018 J	0.0016 J	0.00082 J	< 0.00074
	Combined Radium - 226/228	0.431 U	< 0.602	0.149 U	< 0.179	0.781 U	< 0.147	1.23	2.93	0.964	< 0.127
	Selenium	< 0.0014	< 0.0014	0.0042 J	0.0036 J	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	< 0.00018	< 0.00018	< 0.00018	< 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 = Consituents for Detection Monitoring - 40 CFR Part 257 Appendix III.

Appendix IV = Consituents 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 qualifited by the laboratory as estimated.

Upgradient Groundwater Analytical Data - February, August, and September 2022 2022 Annual Groundwater Monitoring and Corrective Action Report Georgia Power Company





	Analyte		GWA-2	GWA-2	YGWA-1D	YGWA-1D	YGWA-1I	YGWA-1I	YGWA-2I	YGWA-2I	YGWA-3I
	Allalyte	Units	2/8/2022	8/30/2022	2/9/2022	8/30/2022	2/9/2022	8/31/2022	2/9/2022	8/30/2022	2/9/2022
	рН	SU	5.83	5.39	7.12	7.2	6.24	5.64	5.89	7.04	7.66
	Boron	mg/l	< 0.040	< 0.0086	< 0.040	< 0.0086	< 0.040	< 0.043 D3	< 0.040	< 0.0086	< 0.040
	Calcium	mg/l	25.6	23.5	14.9	14.9	2.1	1.9	23.4	25.4	23.7
Appendix III	Chloride	mg/l	5.7	6.3	1.0	1.3	1.3	1.5	1.0 J	1.2	1.1
	Fluoride	mg/l	0.064 J	0.086 J	0.057	0.093 J	< 0.10	0.065 J	0.094 J	0.12	0.097 J
	Sulfate	mg/l	107	101	9.3	10.2	5.1	4.8	18.0	20.1	16.0
	Total Dissolved Solids	mg/l	283	244	105	105	57.0	57.0	156	153	145
	Antimony	mg/l	< 0.0030	< 0.00078	< 0.0030	< 0.00078	< 0.0030	< 0.00078	< 0.0030	< 0.00078	< 0.0030
	Arsenic	mg/l	0.0033 J	0.0024 J	0.0031 J	< 0.0022	0.0033 J	< 0.0022	0.0037 J	0.0027 J	0.0018 J
	Barium	mg/l	0.037	0.031	0.0067	0.0066	0.0088	0.0074	0.0029 J	0.0030 J	0.0031 J
	Beryllium	mg/l	< 0.00050	< 0.00054	< 0.00050	< 0.00054	< 0.00050	< 0.00027 D3	< 0.00050	< 0.000054	< 0.00050
	Cadmium	mg/l	< 0.00050	< 0.00011	< 0.00050	< 0.00011	< 0.00050	< 0.00011	< 0.00050	< 0.00011	< 0.00050
	Chromium	mg/l	< 0.0050	< 0.0011	< 0.0050	0.0011 J	< 0.0050	< 0.0011	< 0.0050	< 0.0011	< 0.0050
Appendix IV	Cobalt	mg/l	0.072	0.075	0.00072 J	< 0.00039	0.0023 J	0.00085 J	< 0.0050	< 0.00039	< 0.0050
Appendix IV	Lead	mg/l	< 0.0010	< 0.00089	< 0.0010	< 0.00089	< 0.0010	< 0.00089	< 0.0010	< 0.00089	< 0.0010
	Lithium	mg/l	0.0031 J	0.0025 J	0.013 J	0.013 J	0.0027 J	< 0.0036	0.0060 J	0.0044 J	0.021 J
	Mercury	mg/l	< 0.00020	< 0.00013	< 0.00020	< 0.00013	< 0.00020	< 0.00013	< 0.00020	< 0.00013	< 0.00020
	Molybdenum	mg/l	< 0.010	< 0.00074	0.0093 J	0.0094 J	0.0055 J	0.0055 J	0.0057 J	0.0068 J	0.0087 J
	Combined Radium - 226/228	pCi/l	0.462 U	1.52	1.19	0.827	0.422 U	0.490 U	0.894 U	0.699 U	1.91
	Selenium	mg/l	< 0.0050	< 0.0014	< 0.0050	< 0.0014	< 0.0050	< 0.0014	< 0.0050	< 0.0014	< 0.0050
	Thallium	mg/l	< 0.0010	< 0.00018	< 0.0010	< 0.00018	< 0.0010	< 0.00018	< 0.0010	< 0.00018	< 0.0010

Notes:

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Upgradient Groundwater Analytical Data - February, August, and September 2022 2022 Annual Groundwater Monitoring and Corrective Action Report Georgia Power Company





Analyte		Units	YGWA-3I	YGWA-3D	YGWA-3D	YGWA-4I	YGWA-4I	YGWA-5D	YGWA-5D	YGWA-5I
	Analyte	Units	8/31/2022	2/9/2022	8/31/2022	2/11/2022	8/31/2022	2/10/2022	8/30/2022	2/10/2022
	рН	SU	7.49	7.97	7.65	5.95	5.50	6.99	7.40	5.14
	Boron	mg/l	< 0.0086	0.010 J	< 0.0086	< 0.040	< 0.0086	0.011 J	0.0098 J	< 0.040
	Calcium	mg/l	23.5	30.3	28.7	7.5	8.9	24.8	24.8	2.5
Appendix III	Chloride	mg/l	1.3	1.1	1.3	4.1	4.4	3.2	3.5	4.4
	Fluoride	mg/l	0.13	0.43	0.42	< 0.10	0.061 J	0.055 J	0.085 J	< 0.10
	Sulfate	mg/l	13.9	7.2	6.9	7.7	8.0	4.9	5.7	2.4
	Total Dissolved Solids	mg/l	137	154	141	102	92.0	127	148	77.0
	Antimony	mg/l	< 0.00078	0.0018 J	< 0.00078	< 0.0030	< 0.00078	< 0.0030	< 0.00078	< 0.0030
	Arsenic	mg/l	< 0.0022	0.0020 J	0.0028 J	0.0014 J	< 0.0022	0.0040 J	0.0031 J	0.0016 J
	Barium	mg/l	0.0030 J	0.0051	0.0048 J	0.013	0.013	0.0084	0.0079	0.020
	Beryllium	mg/l	< 0.000054	< 0.00050	< 0.00054	< 0.00050	< 0.000054	< 0.00050	< 0.00054	< 0.00050
	Cadmium	mg/l	< 0.00011	< 0.00050	< 0.00011	< 0.00050	< 0.00011	< 0.00050	< 0.00011	< 0.00050
	Chromium	mg/l	< 0.0011	< 0.0050	< 0.0011	< 0.0050	< 0.0011	< 0.0050	< 0.0011	< 0.0050
Annandiy IV	Cobalt	mg/l	< 0.00039	< 0.0050	< 0.00039	< 0.0050	< 0.00039	< 0.0050	< 0.00039	< 0.0050
Appendix IV	Lead	mg/l	< 0.00089	< 0.0010	< 0.00089	< 0.0010	< 0.00089	< 0.0010	< 0.00089	< 0.0010
	Lithium	mg/l	0.022 J	0.026 J	0.021 J	0.012 J	0.013 J	0.0076 J	0.0068 J	0.0036 J
	Mercury	mg/l	< 0.00013	< 0.00020	< 0.00013	< 0.00020	< 0.00013	< 0.00020	< 0.00013	< 0.00020
	Molybdenum	mg/l	0.0068 J	0.013	0.011	< 0.010	< 0.00074	0.00096 J	0.00089 J	< 0.010
	Combined Radium - 226/228	pCi/l	1.33	3.28	2.12	0.996	0.962	3.33	5.34	0.375 U
	Selenium	mg/l	< 0.0014	< 0.0050	< 0.0014	< 0.0050	< 0.0014	< 0.0050	< 0.0014	< 0.0050
	Thallium	mg/l	< 0.00018	< 0.0010	< 0.00018	< 0.0010	< 0.00018	< 0.0010	< 0.00018	< 0.0010

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Upgradient Groundwater Analytical Data - February, August, and September 2022 2022 Annual Groundwater Monitoring and Corrective Action Report Georgia Power Company Plant Yates - AP-2





Analyte		Units	YGWA-5I	YGWA-14S	YGWA-14S	YGWA-17S	YGWA-17S	YGWA-18I	YGWA-18I	YGWA-18S
		Office	8/30/2022	2/10/2022	8/31/2022	2/9/2022	8/30/2022	2/9/2022	8/30/2022	2/9/2022
	рН	SU	5.00	4.50	5.15	5.53	4.68	5.98	5.82	5.28
	Boron	mg/l	< 0.0086	0.020 J	0.015 J	0.0098 J	0.013 J	< 0.040	< 0.0086	< 0.040
	Calcium	mg/l	2.5	1.3	1.3	2.8	3.0	5.1	5.7	0.87 J
Appendix III	Chloride	mg/l	4.4	4.7	4.6	10.9	12.0	7.5	7.9	7.0
	Fluoride	mg/l	< 0.050	< 0.10	0.053 J	< 0.10	< 0.050	< 0.10	< 0.050	< 0.10
	Sulfate	mg/l	2.4	6.2	5.8	4.8	4.7	0.51 J	0.78 J	1.1
	Total Dissolved Solids	mg/l	86.0	56.0	51.0	81.0	81.0	103	100	60.0
	Antimony	mg/l	< 0.00078	< 0.0030	< 0.00078	< 0.0030	< 0.00078	< 0.0030	< 0.00078	< 0.0030
	Arsenic	mg/l	< 0.0022	0.0016 J	< 0.0022	0.0024 J	< 0.0022	0.0022 J	< 0.0022	0.0024 J
	Barium	mg/l	0.017	0.0088	0.0075	0.017	0.017	0.021	0.017	0.014
	Beryllium	mg/l	< 0.000054	0.00025 J	0.00020 J	0.00011 J	0.00010 J	< 0.00050	< 0.000054	0.000089 J
	Cadmium	mg/l	< 0.00011	< 0.00050	< 0.00011	< 0.00050	< 0.00011	< 0.00050	< 0.00011	< 0.00050
	Chromium	mg/l	< 0.0011	< 0.0050	< 0.0011	< 0.0050	< 0.0011	< 0.0050	< 0.0011	0.0014 J
Appondix IV	Cobalt	mg/l	< 0.00039	< 0.0050	< 0.00039	< 0.0050	< 0.00039	< 0.0050	< 0.00039	< 0.0050
Appendix IV	Lead	mg/l	< 0.00089	< 0.0010	< 0.00089	< 0.0010	< 0.00089	< 0.0010	< 0.00089	< 0.0010
	Lithium	mg/l	0.0035 J	< 0.030	< 0.00073	< 0.030	< 0.00073	0.0032 J	0.0036 J	0.0015 J
	Mercury	mg/l	< 0.00013	< 0.00020	< 0.00013	< 0.00020	< 0.00013	< 0.00020	< 0.00013	< 0.00020
	Molybdenum	mg/l	< 0.00074	< 0.010	< 0.00074	< 0.010	< 0.00074	< 0.010	< 0.00074	< 0.010
	Combined Radium - 226/228	pCi/l	0 U	0 U	0.421 U	0.133 U	1.08	0.571 U	1.01	0.0618 U
	Selenium	mg/l	< 0.0014	0.0014 J	< 0.0014	< 0.0050	< 0.0014	< 0.0050	< 0.0014	< 0.0050
	Thallium	mg/l	< 0.00018	< 0.0010	< 0.00018	< 0.0010	< 0.00018	< 0.0010	< 0.00018	< 0.0010

Notes

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Analyte		Units —	YGWA-18S	YGWA-20S	YGWA-20S	YGWA-21I	YGWA-21I	YGWA-30I	YGWA-30I	YGWA-39
		Units	8/30/2022	2/9/2022	8/31/2022	2/9/2022	8/30/2022	2/11/2022	8/31/2022	2/8/2022
	pH	SU	5.18	5.91	5.38	6.84	6.58	5.59	5.87	5.78
	Boron	mg/l	0.014 J	< 0.040	< 0.043 D3	< 0.040	0.012 J	< 0.040	< 0.0086	0.13
	Calcium	mg/l	0.77 J	2.3	2.4	9.8	7.3	1.5	1.3	15.2
Appendix III	Chloride	mg/l	7.0	2.8	2.9	1.7	2.4	2.1	1.8	7.4
	Fluoride	mg/l	< 0.050	< 0.10	< 0.050	0.10	0.10	< 0.10	0.060 J	0.052 J
	Sulfate	mg/l	1.3	< 1.0	< 0.50	3.9	3.2	2.8	1.1	14.6
	Total Dissolved Solids	mg/l	52.0	72.0	62.0	131	122	66.0	33.0 D6	248
	Antimony	mg/l	< 0.00078	< 0.0030	< 0.00078	< 0.0030	0.0046	< 0.0030	< 0.00078	< 0.0030
	Arsenic	mg/l	< 0.0022	0.0021 J	< 0.0022	0.0036 J	0.0022 J	0.0014 J	< 0.0022	0.0034 J
	Barium	mg/l	0.012	0.014	0.011	0.011	0.0085	0.0077	0.0068	0.041
	Beryllium	mg/l	0.000082 J	0.000077 J	< 0.00027 D3	< 0.00050	< 0.000054	< 0.00050	< 0.000054	< 0.00050
	Cadmium	mg/l	< 0.00011	< 0.00050	< 0.00011	< 0.00050	< 0.00011	< 0.00050	< 0.00011	0.00063
	Chromium	mg/l	0.0015 J	< 0.0050	< 0.0011	< 0.0050	< 0.0011	< 0.0050	< 0.0011	< 0.0050
Appendix IV	Cobalt	mg/l	< 0.00039	< 0.0050	< 0.00039	0.0078	0.0066	0.0038 J	0.0040 J	0.0012 J
Appendix IV	Lead	mg/l	< 0.00089	< 0.0010	< 0.00089	< 0.0010	< 0.00089	< 0.0010	< 0.00089	< 0.0010
	Lithium	mg/l	0.0014 J	0.00082 J	< 0.00073	0.0061 J	0.0079 J	0.0014 J	0.0012 J	0.0080 J
	Mercury	mg/l	< 0.00013	< 0.00020	< 0.00013	< 0.00020	< 0.00013	< 0.00020	< 0.00013	< 0.00020
	Molybdenum	mg/l	< 0.00074	< 0.010	< 0.00074	< 0.010	< 0.00074	< 0.010	< 0.00074	0.0035 J
	Combined Radium - 226/228	pCi/l	0.611 U	0.504 U	0.184 U	1.94	1.27	0.268 U	0.506 U	0.834
	Selenium	mg/l	< 0.0014	< 0.0050	< 0.0014	< 0.0050	< 0.0014	< 0.0050	< 0.0014	< 0.0050
	Thallium	mg/l	< 0.00018	< 0.0010	< 0.00018	< 0.0010	< 0.00018	< 0.0010	< 0.00018	< 0.0010

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	Analyte	Units -	YGWA-39	YGWA-40	YGWA-40	YGWA-47	YGWA-47	
	Analyte		8/31/2022	2/8/2022	8/31/2022	2/8/2022	8/31/2022	
	рН	SU	5.30	5.26	4.53	5.40	5.32	
	Boron	mg/l	0.14	0.074	0.062	0.015 J	0.0091 J	
	Calcium	mg/l	16.3	6.0	6.2	9.4	9.6	
Appendix III	Chloride	mg/l	6.7	6.2	6.3	3.2	3.5	
	Fluoride	mg/l	0.065 J	< 0.10	0.050 J	< 0.10	0.065 J	
	Sulfate	mg/l	10.9	17.9	17.9	50.9	48.0	
	Total Dissolved Solids	mg/l	248	93.0	92.0	151	116	
	Antimony	mg/l	< 0.00078	< 0.0030	< 0.00078	< 0.0030	< 0.00078	
	Arsenic	mg/l	0.0029 J	0.0030 J	< 0.0022	0.0027 J	< 0.0022	
	Barium	mg/l	0.035	0.039	0.035	0.030	0.029	
	Beryllium	mg/l	< 0.000054	0.00028 J	0.00025 J	0.000056 J	< 0.000054	
	Cadmium	mg/l	0.00044 J	< 0.00050	< 0.00011	< 0.00050	< 0.00011	
	Chromium	mg/l	< 0.0011	< 0.0050	< 0.0011	< 0.0050	< 0.0011	
Annondiy IV	Cobalt	mg/l	0.00085 J	< 0.0050	< 0.00039	0.0013 J	0.00096 J	
Appendix IV	Lead	mg/l	< 0.00089	< 0.0010	< 0.00089	< 0.0010	< 0.00089	
	Lithium	mg/l	0.0065 J	0.00076 J	< 0.00073	0.0039 J	0.0037 J	
	Mercury	mg/l	< 0.00013	0.00013 J	0.00064	< 0.00020	< 0.00013	
	Molybdenum	mg/l	0.0036 J	< 0.010	< 0.00074	< 0.010	< 0.00074	
	Combined Radium - 226/228	pCi/l	0.937	0.534 U	0.513 U	0.400 U	0.714 U	
	Selenium	mg/l	< 0.0014	0.0014 J	< 0.0014	< 0.0050	< 0.0014	
	Thallium	mg/l	< 0.00018	< 0.0010	< 0.00018	< 0.0010	< 0.00018	

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Constituent	Units	Background	GWPS
Constituent	Office	Dackground	GWF3
ebruary 2022			
Antimony	mg/L	0.0047	0.006
Arsenic	mg/L	0.005	0.010
Barium	mg/L	0.071	2.00
Beryllium	mg/L	0.0005	0.004
Cadmium	mg/L	0.00063	0.005
Chromium	mg/L	0.0093	0.100
Cobalt	mg/L	0.035	0.035 ³
Fluoride	mg/L	0.680	4.00
Lead	mg/L	0.0013	0.015
Lithium	mg/L	0.030	0.040
Mercury	mg/L	0.0002	0.002
Molybdenum	mg/L	0.014	0.100
Selenium	mg/L	0.005	0.050
Thallium	mg/L	0.001	0.002
Combined Radium - 226/228	pCi/L	6.92	6.92 ³
ugust/September 2022			
Antimony	mg/L	0.0047	0.006
Arsenic	mg/L	0.005	0.010
Barium	mg/L	0.071	2.00
Beryllium	mg/L	0.0005	0.004
Cadmium	mg/L	0.00063	0.005
Chromium	mg/L	0.0093	0.100
Cobalt	mg/L	0.035	0.035 ³
Fluoride	mg/L	0.680	4.00
Lead	mg/L	0.0013	0.015
Lithium	mg/L	0.030	0.040
Mercury	mg/L	0.00064	0.002
Molybdenum	mg/L	0.014	0.100
Selenium	mg/L	0.005	0.050
Thallium	mg/L	0.001	0.002
Combined Radium - 226/228	pCi/L	6.92	6.92 ³

- 1. Site background: Tolerance limits calculated from pooled upgradient well data.
- 2. GWPS = Groundwater Protection Standard per 40 CFR §257.95(h). On February 22, 2022, the GA EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated Federal GWPS for cobalt, lead, molydenum, and lithium.
- 3. Background concentration is higher than the federally promulgated value (0.006 mg/L for Cobalt). Background is higher than radium MCL (5 mg/L). Therefore, background is the GWPS.

Acronyms and Abbreviations:

CFR = Code of Federal Regulations

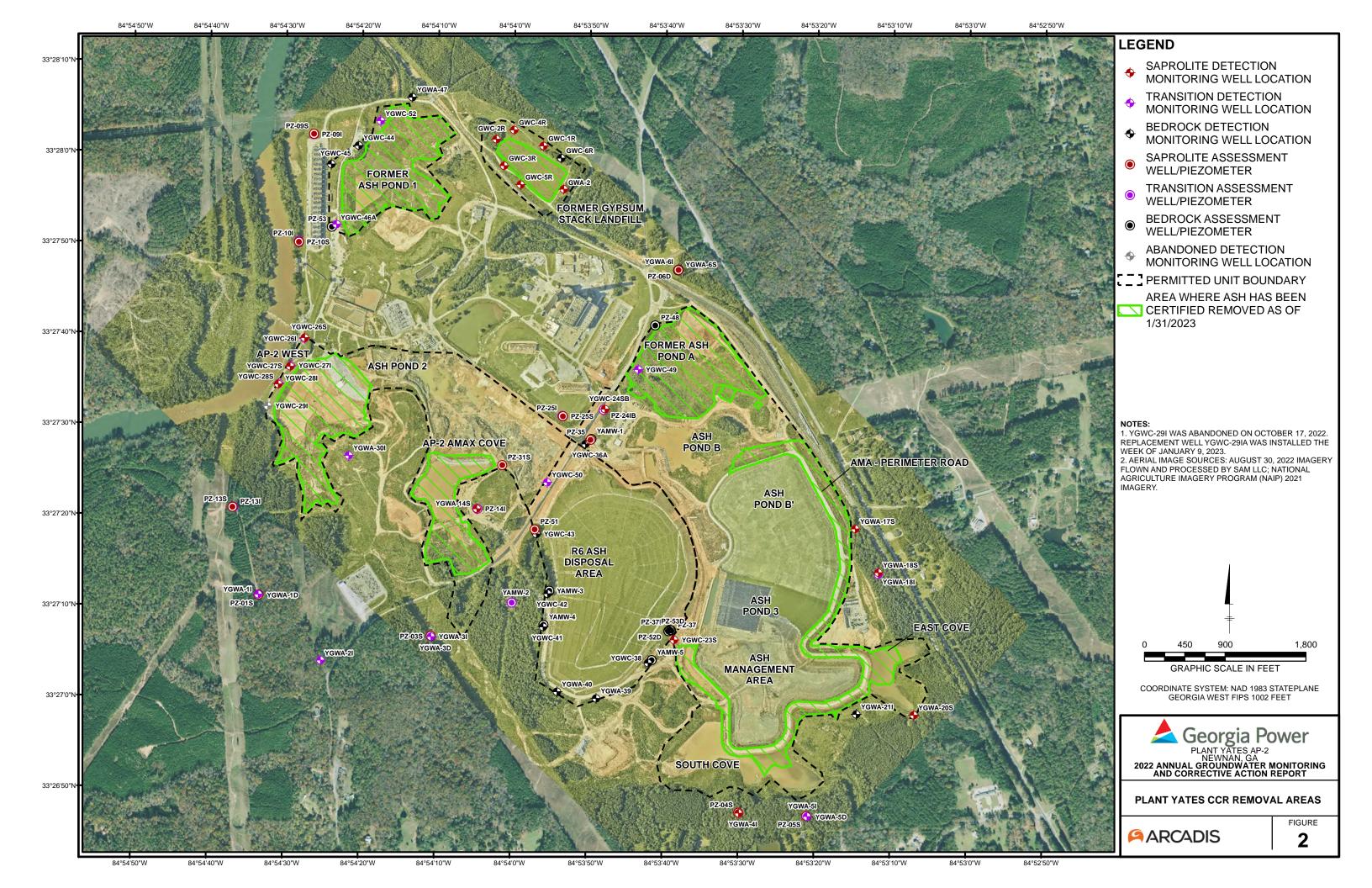
MCL = Maximum Contaminant Level

mg/L = millgrams per liter

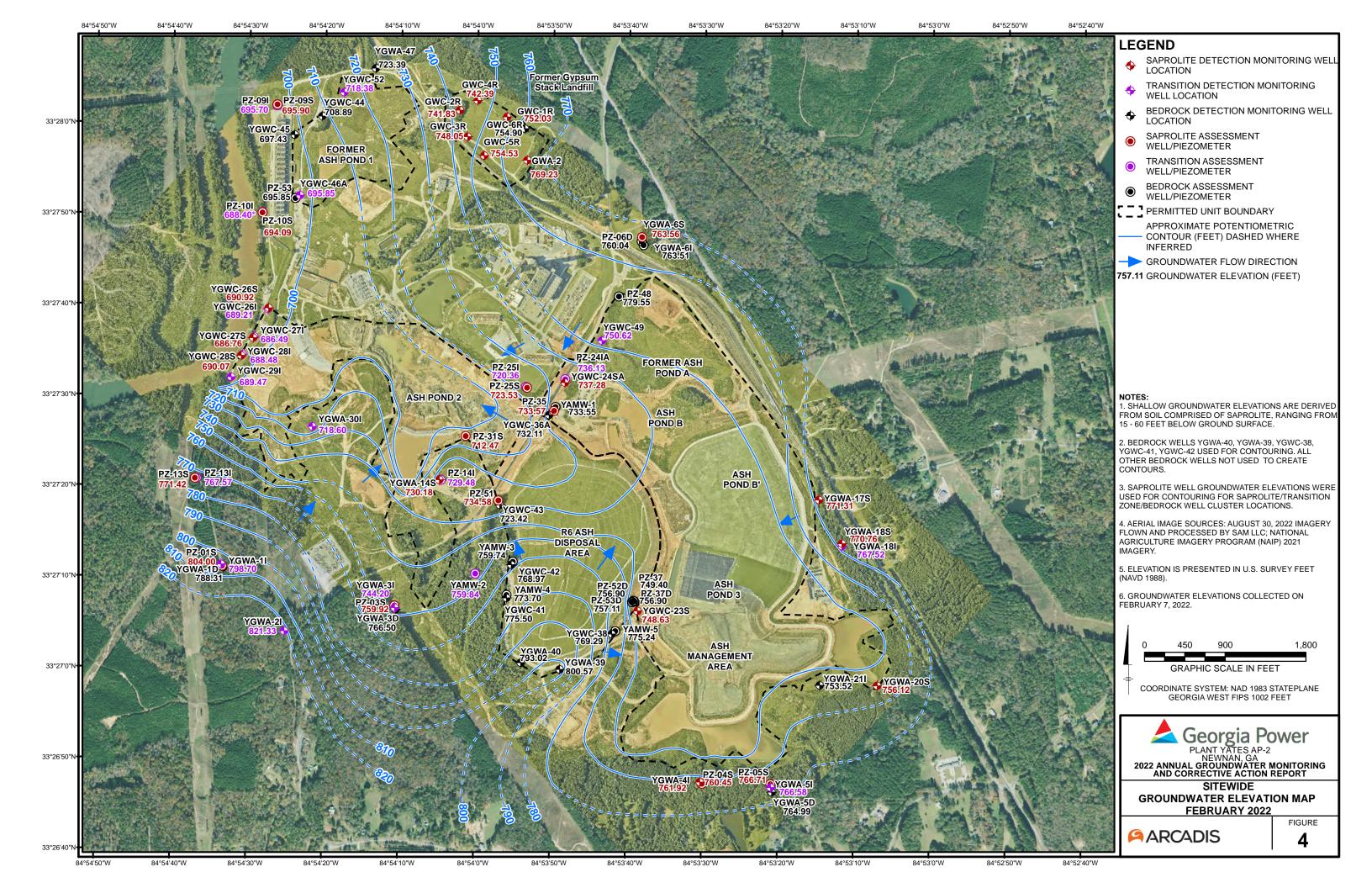
pCi/L = picocuries per liter

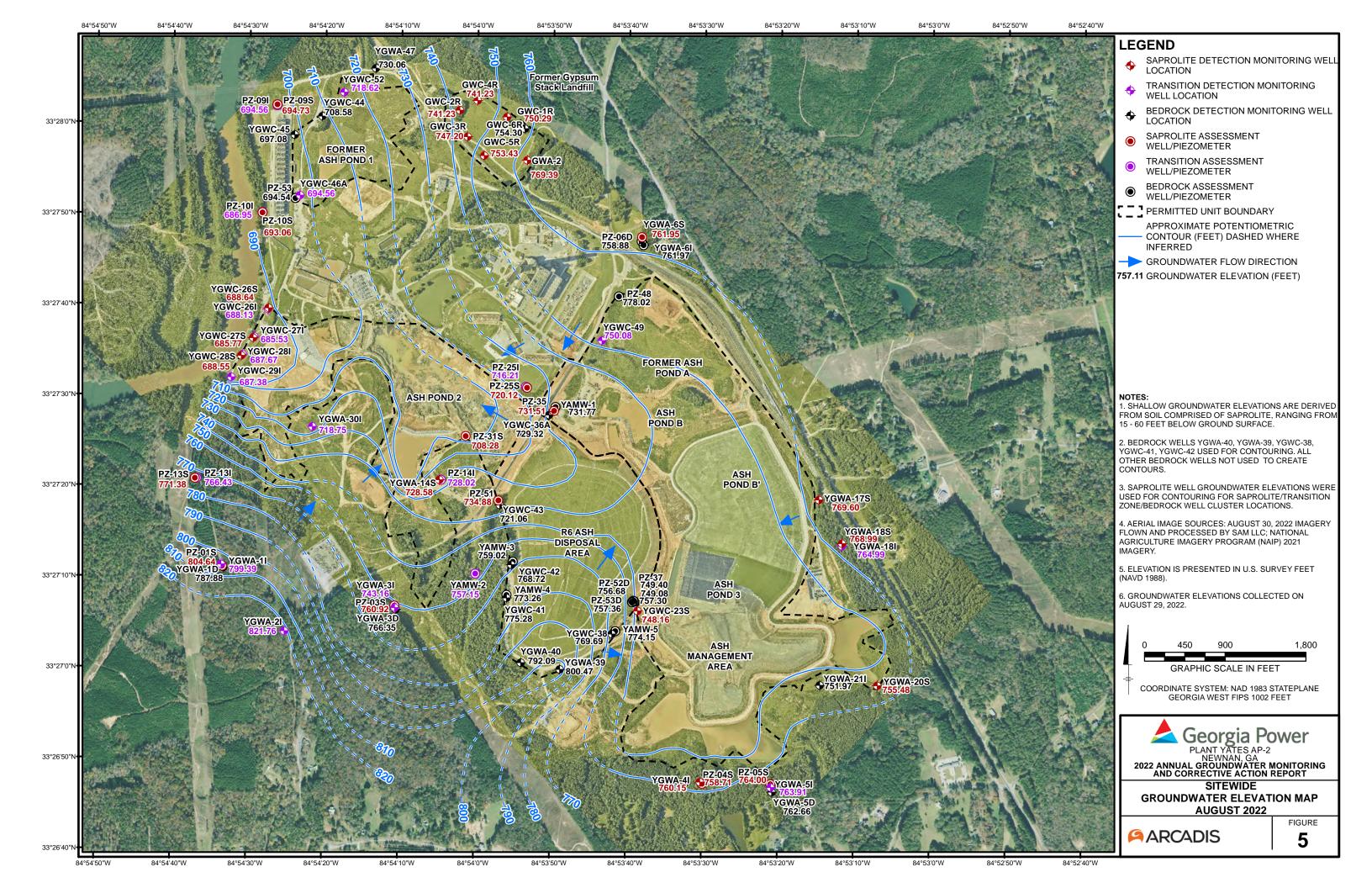
Figures

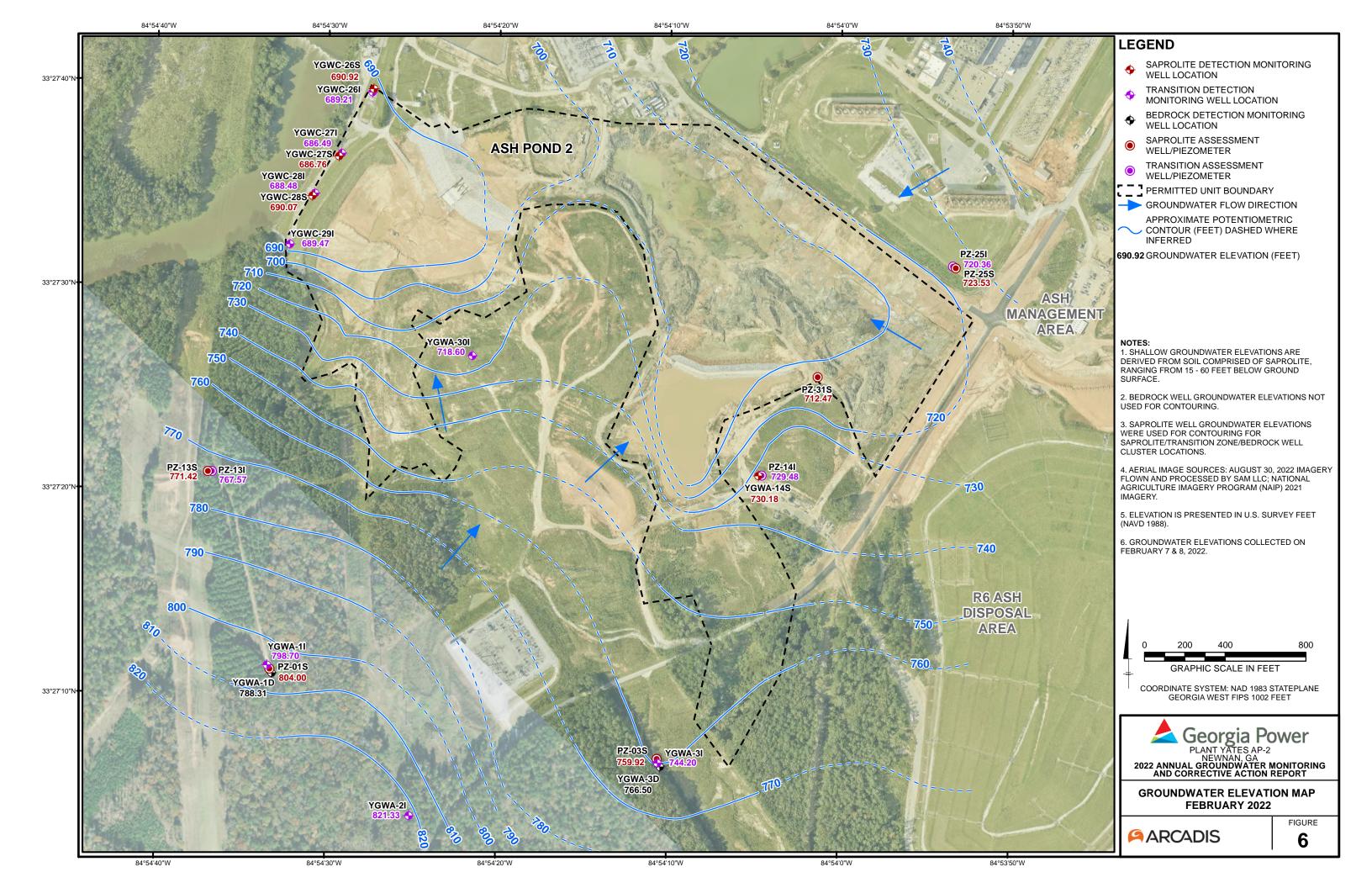


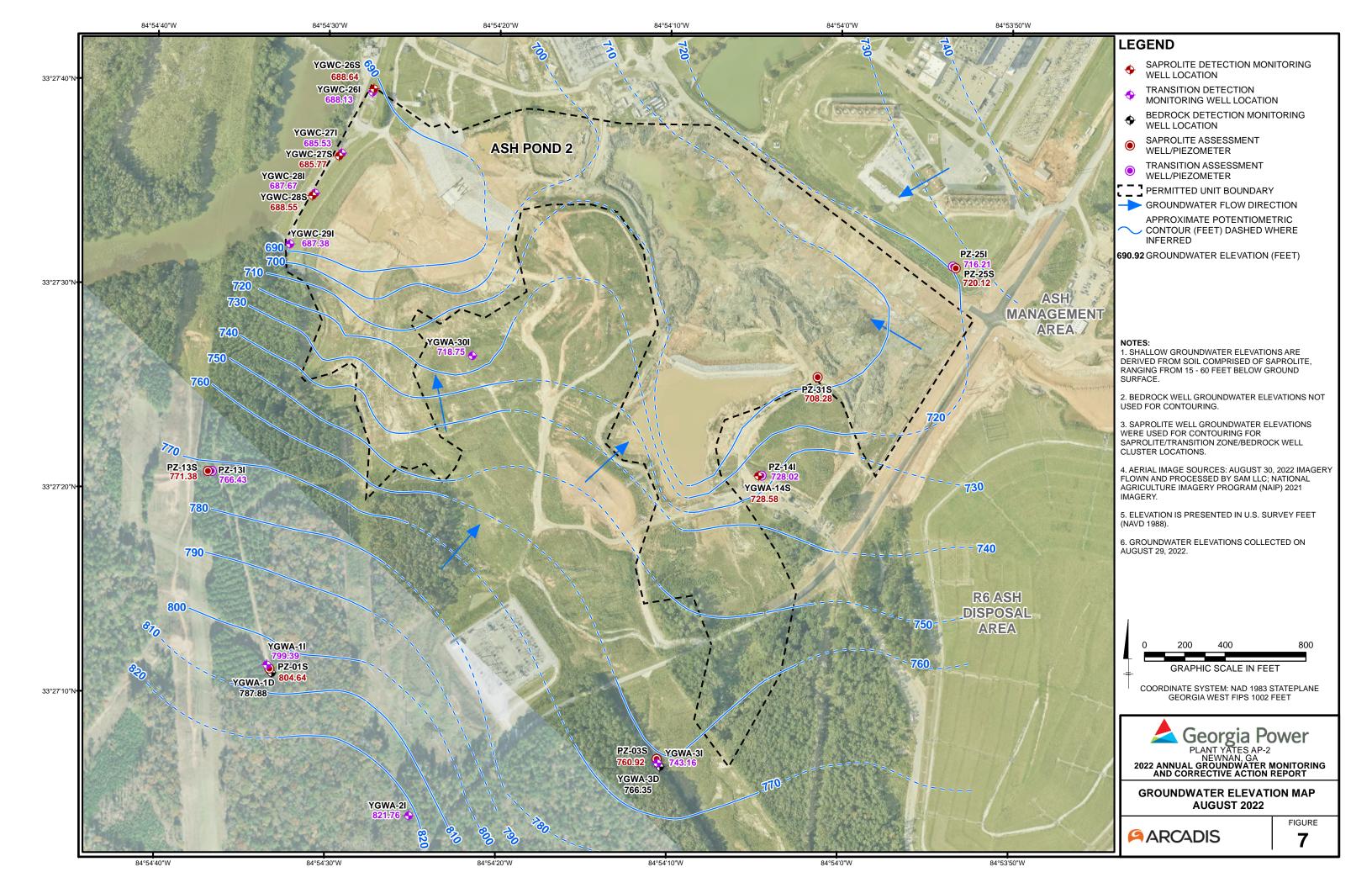












Appendix A

Well Abandonment Report & Field Sampling Forms (February, August, and September 2022)





WELL ABANDONMENT REPORT

Plant Yates AP-2 Newnan, Georgia

December 14, 2022



Well Abandonment Report

Plant Yates – AP-2 Newnan, Georgia

December 14, 2022

Prepared By:

Arcadis U.S., Inc.

2839 Paces Ferry Road, Suite 900

Atlanta

Georgia 30339

Phone: 770 431 8666 Fax: 770 435 2666 **Prepared For:**

Georgia Power Company

David Prouty Project Geologist

Geoffrey Gay, PE

Technical Expert (Eng)

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Figure 2. Well Location Map

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PROFESSIONAL ENGINEER CERTIFICATION

I certify that I am a qualified groundwater scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and have sufficient training and experience in groundwater hydrology and related fields as demonstrated by state registration and completion of accredited university courses that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. 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). I further certify that this report was prepared by me or by a subordinate working under my direction.



12.14.22

J. Geoffrey Gay, P.E.
Principal Environmental Engineer
Georgia Registration No. 27801

Date

1 Introduction

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 eight miles northwest of the city of Newnan and 13 miles southeast of the city of Carrollton. Plant Yates, once a coal-fired power generation facility converted to natural gas combustion turbines, occupies approximately 2,400 acres. Dam construction activities at Georgia Power Company Plant Yates along the Chattahoochee River necessitated the abandonment of a groundwater monitoring well at Ash Pond (AP) AP-2. This report documents the abandonment of monitoring well YGWC-29I that occurred October 13-14, 2022. **Figure 1** depicts the Site location relative to the surrounding area, and **Figure 2** depicts the location of the monitoring well.

2 Abandonment Activities

Monitoring well abandonment was performed by Cascade Environmental under contract with Southern Company Services (SCS) Field Services. The abandonment activities were performed under the oversight and direction of a Georgia Registered Professional Engineer with Arcadis. Construction along the Chattahoochee River dam area required lowering the ground surface elevation where YGWC-29I was located. Bentonite chips were placed in the well to a depth of 28 feet below the top-of-casing (bTOC). The concrete pads and bollards were removed, and the following day the casing was over-drilled and cut off at a depth of 20 feet below ground surface (bgs). The hole was tremie-grouted to ground surface with a 30 percent solids bentonite grout (Aquaguard®). Well abandonment records are provided in **Appendix A**.

Figures





Appendix A

Well Abandonment Records

ARCADIS	Well Decommissioning Record
Site Name: GPC Plant Yates	County: Coweta
Well ID: YGWC-29I	Project Number:
Date Installed 10/1/2015	Date Abandoned: 19/13/22
Subcontractor:	Total Well Depth from TOC 39,2 (ft
Screen Depth from TOC: 29, 29 (ft)	Water Table Depth from TOC: 31,76 (ft
Casing Diameter: 2-inch 4-inch 5	Screen Diameter: 2-inch 🔀 4-inch 🗌
Casing Type: Galvanized PVC S	tainless Steel Length:
Screen Type: Galvanized PVC S	tainless Steel Length:
Casing/Screen: Pulled Cut X	Depth BGS: 20 (ft)
Borehole Grouted: Yes No	From 39.2 (ft) to 0 (ft)
Grout Type: Bentonite Cement	
Grouting Method: Through Casing Tr	remie Other (explain)
Grout Type/Comments: Screen about	oned w/ chipsto 28 At + growted
Growted to Surface w/ 2x50	10 ft BLS. 16 bags Aguaguard 10/14/22
Area Resurfaced: Yes No	
Resurfacing Details:	
<u>Crew:</u>	Location Sketch
Comments:	

Signature of Consultant

Arcodis/beologist

Company/Position

Arcadis U.S., Inc. 2839 Paces Ferry Road, Suite 900 Atlanta Georgia 30339 Phone: 770 431 8666

Fax: 770 435 2666 www.arcadis.com

AP-2 - February 2022

Project Plant Yates

Field Staff: Mark Chest / Kim Lapsynski / Jessica Ware / Khalil Carson

Instrument Calibration
Date: 02/8/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	SmarTROLL SN 514308 (Jessica Ware & Kim Lapszynski)	YSI 556 U82097X (Kim Lapszynski)	SmarTROLL SN 613192 (Khalil Carson)			
DO	% saturation	100	100	100	NA*	100			
Conductivity	us/cm	1409	8000	1409	NA*	8000			
рН	S.U.	4.00	4.00	4.00	NA*	4.00			
pН	S.U.	7.00	7.08	7.06	NA*	7.00			
рН	S.U.	10.00	10.01	9.99	NA*	10.00			
ORP	mV	220.0	252.1	220.0	NA*	232.0			

HACH/Geotech Standard	Units	НАСН	HACH U89261X	Geotech V94550X (Kim Lapszynski)	НАСН
20	NTU	20.2	9.7	NA*	20.1
100	NTU	102	20	NA*	99.6
800	NTU	801	101	NA*	803
10 / <0.10	NTU	10.3	804	NA*	10.1

Date: 2/8/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	SmarTROLL SN 514308 (Jessica Ware)	YSI 556 U82097X (Kim Lapszynski)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	NA*	100	100
Conductivity	us/cm	1409	1413	NA*	1409	8000
pН	S.U.	4.00	4.00	NA*	4.00	4.00
pН	S.U.	7.00	7.06	NA*	7.00	7.00
pН	S.U.	10.00	10.08	NA*	10.00	10.00
ORP	mV	220.0	237.8	NA*	220.0	232.0

HACH/Geotech Standard	Units	НАСН	HACH U89261X	Geotech V94550X (Kim Lapszynski)	НАСН
20	NTU		19.7	**	
100	NTU		100	**	
800	NTU		794	**	
10 / <0.10	NTU	10.2	9.88	**	10.1

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 conducted

* Equipment not available or broken

** Mid-day Calibration was conducted but data not recorded

Project Plant Yates

Field Staff: Mark Chest / Kim Lapsynski / Jessica Ware / Khalil Carson

Instrument Calibration Date: 02/9/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	SmarTROLL SN 514308 (Kim Lapszynski)	YSI 556 U82097X (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	100.3	100
Conductivity	us/cm	1409	1413	1409	1407	1409
pН	S.U.	4.00	4.01	400	3.97	4.00
pН	S.U.	7.00	7.12	7.06	7.00	7.02
pН	S.U.	10.00	10.16	10.00	9.99	10.08
ORP	mV	220.0	256.8	220.0	220.0	220.0

HACH/Geotech Standard	Units	HACH (Mark Chest)	Geotech V94550X (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU	19.9	20.0	20.2	19.9
100	NTU	99.6	100.0	101	99.8
800	NTU	791	800.0	800	797
10 / <0.10	NTU	10.0	< 0.10	9.25	9.18

Date: 2/8/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	SmarTROLL SN 514308 (Kim Lapszynski)	YSI 556 U82097X (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	99.9	NA*
Conductivity	us/cm	1409	1413	1409	1411	NA*
pН	S.U.	4.00		4.00	4.02	NA*
pН	S.U.	7.00	7.00	7.02	7.01	NA*
pН	S.U.	10.00		10.08	9.92	NA*
ORP	mV	220.0	231	220.0	220.0	NA*

HACH/Geotech Standard	Units	HACH (Mark Chest)	Geotech V94550X (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU		**	19.7	NA*
100	NTU		**	100	NA*
800	NTU		**	799	NA*
10 / <0.10	NTU	10.2	**	9.87	NA*

Notes:

 $\label{eq:decomposition} DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated$

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = Not Applicable

-- calibration not conducted

* Unable to Calibration due to long purge time at midday

** Mid-day Calibration was conducted but data not recorded

Project Plant Yates

Field Staff: Kim Lapsynski / Jessica Ware / Khalil Carson

Instrument Calibration
Date: 02/11/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 464818 (Kim Lapszynski)	SmarTROLL SN 514308 (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	100
Conductivity	us/cm	1409	1409	1409	1409
pН	S.U.	4.00	4.00	4.00	4.00
pН	S.U.	7.00	7.06	7.02	7.02
pН	S.U.	10.00	10.16	10.12	10.05
ORP	mV	220.0	220.0	220.0	220.0

HACH/Geotech Standard	Units	Geotech V100820X (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU	20.0	20.0	19.8
100	NTU	100.0	104	99.6
800	NTU	800.0	793	788
10 / <0.10	NTU	< 0.10	9.47	10.2

Date: 2/8/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 464818 (Kim Lapszynski)	SmarTROLL SN 514308 (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	NA*	100	NA*
Conductivity	us/cm	1409	NA*	1409	NA*
pН	S.U.	4.00	NA*	4.00	NA*
pН	S.U.	7.00	NA*	7.02	NA*
pН	S.U.	10.00	NA*	10.04	NA*
ORP	mV	220.0	NA*	220.0	NA*

HACH/Geotech Standard	Units	Geotech (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU	NA*	**	NA*
100	NTU	NA*	**	NA*
800	NTU	NA*	**	NA*
10 / <0.10	NTU	NA*	**	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

⁻⁻ calibration not conducted

^{*} Half day

^{**} Mid-day Calibration was conducted but data not recorded

Project Plant Yates

Field Staff: Mark Chest / Kim Lapsynski / Jessica Ware / Khalil Carson

Instrument Calibration

Date: 02/10/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	SmarTROLL SN 514308 (Kim Lapszynski)	SmarTROLL SN 514308 (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	100	100
Conductivity	us/cm	1409	1413	1409	1409	1409
рН	S.U.	4.00	4.00	4.00	4.00	4.00
рН	S.U.	7.00	7.06	7.06	7.06	7.02
рН	S.U.	10.00	10.12	10.12	10.08	10.08
ORP	mV	220.0	246.1	252.8	220.0	220.0

HACH/Geotech Standard	Units	HACH (Mark Chest)	Geotech V94550X (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU	19.9	20.0	19.8	20.7
100	NTU	101	100.0	101	104
800	NTU	797	800.0	799	827
10 / < 0.10	NTU	10.1	< 0.10	9.35	10

Date: 2/8/2022 Time: Midday

	,					
Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	YSI 556 100686 (Kim Lapszynski)	SmarTROLL SN 514308 (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	100	100
Conductivity	us/cm	1409	1413	1406	1409	1409
рН	S.U.	4.00		7.00	4.00	4.00
рН	S.U.	7.00	7.00	4.00	7.02	7.02
рН	S.U.	10.00		9.99	10.04	10.08
ORP	mV	220.0	230	220	220.0	220.0

HACH/Geotech Standard	Units	HACH (Mark Chest)	Geotech (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU		**	19.9	**
100	NTU		**	102	**
800	NTU		**	788	**
10 / < 0.10	NTU	9.96	**	9.57	9.94

 $\label{eq:decomposition} DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated$

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = Not Applicable

-- Calibration not conducted

** Mid-day Calibration was conducted but data not recorded



Client:				Georgia Power				
Project Locat	ion:			AP-2				
Date:				2/7/2022				
Sampler:			Mark Chest					
Equipment:		water probe						
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments			
YGWC-29I	2/7/2022	13:44:00	27.92	39.59				
YGWC-28S	2/7/2022	13:48:00	27.88	44.95				
YGWC-28I	2/7/2022	13:49:00	29.45	69.93				
YGWC-27S	2/7/2022	13:53:00	29.76	40.52				
YGWC-27I	2/7/2022	13:55:00	29.70	79.99				
YGWC-26S	2/7/2022	14:01:00	25.36	40.18				
YGWC-26I	2/7/2022	14:03:00	26.70	69.81				



Client:			Georgia Power					
Project Locat	ion:	AP-2						
Date:			2/7/2022					
Sampler:				Khalil Carson				
Equipment:				water probe				
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments			
PZ-25S	2/7/2022	14:59:00 43.07 56.80						
PZ-25I	2/7/2022	15:02:00	46.02	84.58				



Client:				Georgia Power					
Project Locat	ion:	AP-2							
Date:				2/7/2022					
Sampler:				Jessica Ware					
Equipment:				water probe					
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments				
PZ-3S	2/7/2022	15:23:00	36.47	42.39					
YGWA-3I	2/7/2022	15:26:00	52.35	59.05	Tall grass				
YGWA-3D	2/7/2022	15:28:00	30.28	134.18					
YGWA-2I	2/7/2022	15:37:00	44.92	63.75	Metal well label says plz				
YGWA-1D	2/7/2022	15:43:00	48.94	128.85					
PZ-1S	2/7/2022	15:45:00	32.84	36.34					
YGWA-1I	2/7/2022	15:46:00	37.90	53.60					
PZ-13S	2/7/2022	15:49:00	36.37	43.79					
PZ-13I	2/7/2022	15:53:00	40.05	59.22					



Client:			Georgia Power						
Project Locat	ion:	AP-2							
Date:		2/8/2022							
Sampler:			Khalil Carson						
Equipment:		water probe							
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments				
YGWA-14S	2/8/2022	08:39:00	18.58	34.96					
PZ-14I	2/8/2022	08:41:00	19.58	50.86					
PZ-31S	2/8/2022	08:48:00 26.15 34.72							
YGWA-30I	2/8/2022	08:55:00	43.98	59.48					

Well Location:

Well Completion: NA

Condition of Well:



Project Location			Well ID	YGWC-2	28S			Date	02/08/2022	
	n AP-2			Weather	(°F) 53.4 degree	F) 53.4 degrees F and Clear. The wind is b			blowing N/NE at 10.3 mph.	
Measuring Pt. Description	Top of Inner	r Casing	Screen Setting (ft-bmp)	34.65	Casing Diameter (i	in) ²		Well Casing Material	PVC	
Static Water Level (ft-bmp)	28.05		Total Depth (ft-b	mp) 44.95	Water Column(ft)	16.9		Gallons in Well	2.75	
MP Elevation	717.95		Pump Intake (ft- bmp)	40	Purge Meti	hod Low-Flo	W	Sample Method	Low-Flow	
Sample Time	15:21		Well Volumes Purged	0.58	Sample ID	YGWC-	28S	Sampled by	Mark Chest	
Purge Start	14:48		Gallons Purged	1.59	Replicate/ Code No.			Color	Clear	
Purge End	15:18									
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Tempera °C	ture Red	
14:48:00	00:00	200	28.05	6.58	348.25	18.13	6.97	17.1	24.1	
14:53:00	05:00	200	28.49	6.02	416.29	34.9	1.07	18.1	-17.5	
14:58:00	10:00	200	28.45	6.08	433.33	13.8	0.21	18	-53.8	
15:03:00	15:00	200	28.44	6.14	436.54	8.73	0.25	18.1	-65.	
15:08:00	20:00	200	28.51	6.21	436.73	4.74	0.2	17.9	-72.7	
15:13:00	25:00	200	28.53	6.25	437.44	2.62	0.16	18	-78.7	
15:18:00	30:00	200	28.5	6.3	437.38	2.02	0.15	18.2	-84.4	
Constituent San	mpled			Container			Number		reservative	
TDS RAD 9315/9320				500 mL Plastic			2		lone INO3	
CI, F, SO4				250 mL Plastic			1		lone	
App III/IV Metals				250 mL Plastic			1		INO3	
				230 IIIL Flastic						
Comments:										
Well Casing Vol	ume Conversio	on								
Well diameter (in	nches) = gallons	per foot	1 = 0.04 1.5 = 0.0 1.25 = 0.06 2 = 0		.5 = 0.50 6 = 1.47 = 0.65					

Well Locked at Arrival:

Key Number To Well: NA

Well Locked at Departure:

Condition of Well:

Well Completion: NA



Project Numbe	er 30052923		Well ID	YGWC-2	281			Date	02/08/202	2
Project Location	on AP-2			Weather	Weather(°F) 54.7 degrees F and Clear. The wind is				at 10.3 mph	1.
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	59.63	Casing Diameter (i	in) ²		Well Casing Material	PVC	
Static Water Level (ft-bmp)	29.25		Total Depth (ft-b	omp) 69.93	Water Column(ft)	40.68		Gallons in Well	6.61	
IP Elevation	717.93		Pump Intake (ft- bmp)	64	Purge Meth	nod Low-Flow	N	Sample Method	Low-Flow	
Sample Time	16:17		Well Volumes Purged	0.16	Sample ID	YGWC-2	281	Sampled by	Mark Che	st
Purge Start	15:54		Gallons Purged	1.06	Replicate/ Code No.	AP-2-DU	JP-1	Color	Clear	
Purge End	16:14									
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Tempera °C	ture	Redox (mV)
15:54:00	00:00	200	29.25	6.31	353.83	0.06	0.27	17.8		46.04
15:59:00	05:00	200	31.35	6.34	354.42	0.83	0.18	17.9		49.81
16:04:00	10:00	200	31.41	6.37	356.04	0.53	0.18	17.8		53.09
16:09:00	15:00	200	31.48	6.37	357.02	0.42	0.19	17.8		56.4
16:14:00	20:00	200	31.35	6.36	357.82	0.29	0.19	17.5		60.75
Constituent Sa	mpled			Container			Number 4		reservative	•
Metals				250mL HDPE P	Plastic		2		INO3	
DS				500 mL Plastic			2	N	lone	
I, F, SO4				250 mL Plastic			2	N	lone	
Comments: Well Casing Vo	olume Conversio	on								
Well diameter (nches) = gallons	per foot	$1 = 0.04 \ 1.5 = 0.0$ $1.25 = 0.06 \ 2 = 0$.5 = 0.50 6 = 1.47 = 0.65					
Well Information	on									
Well Loca	ation:				Well Locked at Ar	rival:				

Well Locked at Departure:



Project Number	30053438	Well ID	YGWC-27S			Date	02/08/2022
Project Location	AP-2		Weather(°F)	54.5 degrees F	and Clear. The wind is	blowing N/NW	at 3.4 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	30.22	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	28.79	Total Depth (ft-bmp)	40.52	Water Column(ft)	11.73	Gallons in Well	1.91
MP Elevation	716.52	Pump Intake (ft- bmp)	35	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	17:37	Well Volumes Purged	1.09	Sample ID	YGWC-27S	Sampled by	Jessica Ware
Purge Start	17:02	Gallons Purged	2.08	Replicate/ Code No.		Color	Clear
Purge End	17:52						

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)
17:02:00	00:00	250	28.79	6.11	277.81	11.4	0.39	17.9	80.47
17:07:00	05:00	250	28.91	6.21	300.41	11.22	0.18	18.1	85.78
17:12:00	10:00	250	28.84	6.23	302.34	10.84	0.18	17.9	90.85
17:17:00	15:00	200	28.83	6.25	299.67	10.46	0.22	17.1	94.46
17:22:00	20:00	200	28.85	6.22	295.48	4.58	0.26	16.6	100.69
17:27:00	25:00	200	28.85	6.22	290.04	3.61	0.31	16.5	104.39
17:32:00	30:00	200	28.85	6.21	285.17	1.66	0.34	16.3	107.99
17:37:00	35:38	200	28.85	6.22	275.05	2.88	0.4	16.6	110.18

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	1	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot $1 = 0.04 \cdot 1.5 = 0.09 \cdot 2.5 = 0.26 \cdot 3.5 = 0.50 \cdot 6 = 1.47$

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	

Well Information

Well Location:

Well Completion: NA

Condition of Well:



Project Numbe	er 30052923		Well ID	YGWC-2	291			Date	02/08/2	2022
Project Location	on AP-2			Weather	c(°F) 53.4 degree	es F and Clear	. The wind is I	olowing N/NE a	it 10.3 m	ph.
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	29.29	Casing Diameter (in) ²		Well Casing Material	PVC	
Static Water Level (ft-bmp)	27.85		Total Depth (ft-k	omp) 39.59	Water Column(ft)	11.74		Gallons in Well	1.91	
MP Elevation	717.39		Pump Intake (ft- bmp)	35	Purge Met	hod Low-Flow	W	Sample Method	Low-Flo	ow
Sample Time	14:02		Well Volumes Purged	0.69	Sample ID	YGWC-2	291	Sampled by	Mark C	hest
Purge Start	13:34		Gallons Purged	1.32	Replicate/ Code No.			Color	Clear	
Purge End	13:59									
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Tempera °C	ture	Redox (mV)
13:34:00	00:00	200	27.85	6.18	197.56	1.06	4.45	17.6		73.19
13:39:00	05:00	200	31.4	5.81	183.83	0.2	0.5	18.1		136.75
13:44:00	10:00	200	31.4	5.83	195.96	2.42	0.69	18		166.78
13:49:00	15:00	200	31.37	5.81	197.2	1.64	0.44	17.5		177.66
13:54:00	20:00	200	31.39	5.83	197.58	0.42	0.28	17.7		184.79
13:59:00	25:00	200	31.4	5.88	199.03	0.16	0.23	17.8		186.92
Constituent Sa	mpled			Container	Nestie		Number		Preservat	iive
Metals RAD Chem				250mL HDPE P	riastic		2		INO3 INO3	
TDS				500 mL Plastic			1		lone	
CI, F, SO4				250 mL Plastic	_		1		lone	
Comments:										
Well Casing Vo	olume Conversion	on								
Well diameter (i	inches) = gallons	per foot	1 = 0.04 1.5 = 0.1 1.25 = 0.06 2 = 0		.5 = 0.50 6 = 1.47 = 0.65					

Well Locked at Arrival:

Key Number To Well: NA

Well Locked at Departure:

Condition of Well:

Well Completion: NA



Project Numbe	er 30053438		Well ID	YGWC-2	26S			Date	02/10/2022	
Project Location				Weather	·(°F) 41 °F Sunr	ny, winds at i	mph			
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	20.88	Casing Diameter (i	2		Well Casing Material	PVC	
Static Water Level (ft-bmp)	25.22		Total Depth (ft-b		Water Column(ft)	14 96		Gallons in Well	2.43	
MP Elevation	716.28		Pump Intake (ft- bmp)	37	Purge Meti	hod Low-Flow	N	Sample Method	Low-Flow	
Sample Time	09:15		Well Volumes Purged	0.33	Sample ID	YGWC-	26S	Sampled by	Khalil Carso	on
Purge Start	08:44		Gallons Purged	0.79	Replicate/ Code No.			Color	Clear	
Purge End	09:33									
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Tempera °C	ture	Redox (mV)
08:44:00	00:00	200	25.22	5.57	284.72	4.19	4.27	16.7		205.46
08:49:00	05:00	100	27.42	5.21	276.33	1.45	0.46	17.5		197.05
08:54:00	10:00	100	27.22	5.19	277.86	0.51	0.31	16.9		192.1
08:59:00	15:00	100	27.62	5.21	277.99	0.23	0.29	17		184.59
09:04:00	20:00	100	27.46	5.27	278.1	0.2	0.27	17.1		178.08
09:09:00	25:00	100	27.46	5.31	278.3	0.58	0.24	16.5		173.89
Constituent Sa	mpled		(Container			Number	Р	reservative	
TDS			Ę	500 mL Plastic			1	N	lone	
RAD Chem			- -	1L Plastic			2	H	INO3	
Metals				250 mL Plastic			1	H	INO3	
Ammonia,Chlor	ide,Fluoride ,Sulf	ate		250 mL Plastic			1	N	lone	
Comments:										
Well Casing Vo	olume Conversion	on								
Well diameter (inches) = gallons	per foot	1 = 0.04 1.5 = 0.0 1.25 = 0.06 2 = 0		.5 = 0.50 6 = 1.47 = 0.65					
Well Information	on									
Well Loca	ation:				Well Locked at Ar	rival:				

Well Locked at Departure:

Condition of Well:

Well Completion: NA



Project Number	30053438		Well ID	YGWC-2	261			Date	02/10/2	2022
Project Location	n AP-2			Weather	r(°F) 45 °F, Sun	ny, winds at r	nph.			
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	59.51	Casing Diameter (in) ²		Well Casing Material	PVC	
Static Water Level (ft-bmp)	25.71		Total Depth (ft-k	omp) 69.81	Water Column(ft)	44.1		Gallons in Well	7.17	
MP Elevation	715.91		Pump Intake (ft- bmp)	61	Purge Met	hod Low-Flow	v	Sample Method	Low-Fl	ow
Sample Time	10:25		Well Volumes Purged	0.15	Sample ID	YGWC-2	261	Sampled by	Khalil (Carson
Purge Start	10:00		Gallons Purged	1.06	Replicate/ Code No.			Color	Clear	
Purge End	10:40									
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Tempera °C	ture	Redox (mV)
10:00:00	00:00	200	25.71	6.03	300.39	3.93	5.62	13.8		178.67
10:05:00	05:00	200	26.12	5.9	303.24	1.71	0.62	17.5		39.77
10:10:00	10:00	200	26.12	5.86	303.07	0.61	0.21	17.7		96.39
10:15:00	15:00	200	26.12	5.85	302.63	0.82	0.16	17.8		117.77
10:20:00	20:00	200	26.12	5.84	302.08	1.55	0.15	18		128.4
Constituent Sar	npled			Container			Number	P	reservat	tive
TDS				500 mL Plastic			1	N	lone	
RAD Chem				1L Plastic			2		INO3	
Metals				250 mL Plastic			1		INO3	
Chloride,Fluoride	Sulfate,			250 mL Plastic			1	N	lone	
Comments:										
Well Casing Vol	lume Conversion	on								
Well diameter (ir	nches) = gallons	per foot	1 = 0.04 1.5 = 0. 1.25 = 0.06 2 = 0		.5 = 0.50 6 = 1.47 = 0.65					
Well Information	n									
Well Locat	ion·				Well Locked at Ar	rival:				

Well Locked at Departure:

Condition of Well:

Well Completion: NA



Project Number	30053438		Well ID	YGWC-2	71			Date	02/10/2	022
Project Location	n AP-2			Weather	(°F) 55 °F, Sunr	ny, winds at r	nph.			
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	69.69	Casing Diameter (in) ²		Well Casing Material	PVC	
Static Water Level (ft-bmp)	28.5		Total Depth (ft-l	omp) 79.99	Water Column(ft)	51.49		Gallons in Well	8.37	
MP Elevation	716.19		Pump Intake (ft- bmp)	75	Purge Meti	hod Low-Flow	v	Sample Method	Low-Flo	ow .
Sample Time	11:45		Well Volumes Purged	0.09	Sample ID	YGWC-2	271	Sampled by	Khalil C	arson
Purge Start	11:20		Gallons Purged	0.73	Replicate/ Code No.			Color	Clear	
Purge End	12:12									
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperate °C	ture	Redox (mV)
11:20:00	00:00	100	28.5	7.56	323.39	1.47	8.49	16.5		207.74
11:25:00	05:00	150	29.13	6.24	335.68	1.5	0.73	17.9		25.48
11:30:00	10:00	150	29.24	6.23	333.01	0.54	0.29	18.1		12.27
11:35:00	15:00	150	29.3	6.25	329.64	0.47	0.25	18.2		3.84
11:40:00	20:00	150	29.3	6.23	328.73	0.46	0.2	18.2		-10.14
Constituent Sa TDS	mpled			Container 500 mL Plastic			Number		reservati one	ive
RAD Chem			-	1L Plastic			2	<u></u> Н	NO3	
Metals			-	250 mL Plastic			1	<u></u> н	NO3	
Chloride,Fluoride	,Sulfate		-	250 mL Plastic			1	N	one	
Comments:										
Well Casing Vo	lume Conversion	on								
Well diameter (ir	nches) = gallons	per foot	1 = 0.04 1.5 = 0. 1.25 = 0.06 2 = 0		5 = 0.50 6 = 1.47 = 0.65					
Well Information	n									
Well Locat	tion:				Well Locked at Ar	rival:				

Well Locked at Departure:

Upgradient Wells



roject Location	n AP-2			Weather	r(°F) It is Clear. T	he wind is blo	wing W/SW a	at 3.4 mph.		
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	48.85	Casing Diameter (i	n) ²		Well Casing Material	PVC	
Static Water .evel (ft-bmp)	52.37		Total Depth (ft-b	mp) 59.05	Water Column(ft)	6.68		Gallons in Well	1.09	
IP Elevation	796.55		Pump Intake (ft- bmp)	54	Purge Meth	od Low-Flow	ı	Sample Method	Low-Flow	v
Sample Time	11:35		Well Volumes Purged	1.71	Sample ID	YGWA-3	I	Sampled by	Kim Laps	szynski
urge Start	10:44		Gallons Purged	1.86	Replicate/ Code No.			Color	Clear	
Purge End	11:21									
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperat °C	ure	Redox (mV)
10:44:00	00:00	150	, ,	7.79	191.72	0.55	9.33	15.5		-6.75
10:49:00	05:00	150	52.73	7.56	242.9	0	4.82	16.5		9.8
10:54:00	10:00	150	52.76	7.63	253.88	0	3.07	16.4		-12.92
10:59:00	15:00	150	52.81	7.67	247.96	0	1.77	16.5		-73.7
11:01:00	17:14	150	52.88	7.68	241.83	0	1.49	16.5		-89.6
11:06:00	22:14	150	52.94	7.71	229.42	0	1.1	16.6		-111.61
11:11:00	27:14	150	52.95	7.66	217.68	0	0.81	16.6		-119.84
11:16:00	32:14	150	52.95	7.71	209.46	0	0.67	16.5		-130.84
11:21:00	37:14	150	52.95	7.73	202.67	0	0.54	16.5		-137.96
11:26:00	42:14	150	52.95	7.75	196.59	0	0.44	16.5		-143.71
11:31:00	47:14	150	52.95	7.66	196.86	0	0.48	16.5		-140.36
onstituent San	npled		(Container			Number	Pı	reservativ	re
TDS			5	500 mL Plastic			1	No	one	
RAD 9315/9320				IL Plastic	_	•	2	H	NO3	
OI, F, SO4				250 mL Plastic	-	•	1	No	one	
Appendix III/IV M	letals			250 mL Plastic		•	1	H	NO3	

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: I	NA Key Number To Well: N	IA



Project Number	30052923	Well ID	YGWA-1I			ι	Date	02/09/2022
Project Location	n AP-2		Weather(°	°F) 57.9 degrees F	and Clear.	The wind is blo	owing W at 8.	1 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)	37.85	Total Depth (ft-bmp)	53.6	Water Column(ft)	15.75		Gallons in Well	2.56
MP Elevation	836.6	Pump Intake (ft- bmp)	49	Purge Method	Low-Flow		Sample Method	Low-Flow
Sample Time	13:45	Well Volumes Purged	0.72	Sample ID	YGWA-1I	5	Sampled by	Kim Lapszynski
Purge Start	12:46	Gallons Purged	1.85	Replicate/ Code No.		(Color	Clear
Purge End	13:43							
	Total Elapsed Rate	Depth to	pH 	Specific Tu	ırbiditv	Dissolved	Tempera	ture Redox

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)
12:46:00	00:00	250		7.54	42.71	0.98	9.62	16.4	81.1
12:51:00	05:00	250	39.57	6.68	55.57	1.12	2.25	16.3	-50.93
12:56:00	10:00	250	39.97	6.53	41.47	0.68	1.93	16.2	-47.9
13:01:00	15:00	100	40.05	6.51	39.94	0.75	1.62	16.1	-40.01
13:06:00	20:00	100	40.16	6.42	36.96	0.57	1.62	15.9	-27.95
13:11:00	25:00	100	40.28	6.32	36.37	0.37	2.49	15.8	-12.99
13:16:00	30:00	100	40.43	6.18	31.64	0.89	3.27	15.8	2.7
13:21:00	35:00	100	40.54	6.15	30.07	0.71	3.68	15.7	12.7
13:26:00	40:00	100	40.63	6.19	30.99	0.74	3.8	15.8	16.89
13:31:00	45:00	100	40.71	6.15	33.49	0.35	3.86	15.7	23.45
13:36:00	50:00	100	40.81	6.17	30.42	0.9	3.8	15.7	26.45
13:41:00	55:00	100	40.86	6.24	31.73	1.72	3.76	15.7	26

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
Appendix III, IV Metals	250 mL Plastic	1	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot $1 = 0.04 \cdot 1.5 = 0.09 \cdot 2.5 = 0.26 \cdot 3.5 = 0.50 \cdot 6 = 1.47$

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



None
HNO3
None
HNO3

Project Number	30052923	Well ID	YGWA-2I			Date	02/09/2022
Project Location	AP-2		Weather(°F)	60.1 degrees F	and Clear. The wind is	blowing W/SW	at 8.1 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	53.45	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	44.87	Total Depth (ft-bmp)	63.75	Water Column(ft)	18.88	Gallons in Well	3.07
MP Elevation	866.25	Pump Intake (ft- bmp)	60	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	17:35	Well Volumes Purged	0.59	Sample ID	YGWA-2I	Sampled by	Kim Lapszynski
Purge Start	15:14	Gallons Purged	1.81	Replicate/ Code No.		Color	Clear

Purge End 17:32

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)
15:14:00	00:00	50	44.87	7.53	126.76		9.14	16.8	4.3
15:19:00	05:00	50	45.68	7.22	162.5		6.17	17.1	-9.41
15:24:00	10:00	50	46.07	7.14	185.48	2.76	3.69	16.7	-31.45
15:29:00	15:00	50	46.48	6.92	200.48	2.75	2.2	16.8	-37.18
15:34:00	20:00	50	46.87	6.7	199.52	1.55	1.58	16.6	-38.99
15:39:00	25:00	50	47.25	6.51	200.48	4.75	1.43	16.5	-36.85
15:44:00	30:00	50	47.62	6.41	197.86	2.14	1.44	16.6	-32.96
15:49:00	35:00	50	47.96	6.43	200.78	1.35	1.39	16.7	-29.86
15:54:00	40:00	50	48.26	6.39	197.61	0.65	1.53	16.9	-23.68
15:59:00	45:00	50	48.52	6.28	192.97	2.73	1.45	16.8	-17.24
16:04:00	50:00	50	48.82	6.24	189.88	1.52	1.41	16.9	-10.9
16:09:00	55:00	50	49.1	6.27	189.2	2.05	1.35	16.9	-6.22
16:14:00	00:00	50	49.4	6.23	187.16	1.97	1.38	16.9	-0.28
16:19:00	05:00	50	49.66	6.09	181.16	1.53	1.44	16.7	6
16:24:00	10:00	50	49.96	6.11	180.14	0.39	1.51	16.8	10.14
16:29:00	15:00	50	50.18	6.13	180.56	0.67	1.62	16.8	13.44
16:34:00	20:00	50	50.43	6.05	174.37	0.47	1.69	16.6	17.64
16:39:00	25:00	50	50.67	5.98	173.99	0.48	1.78	16.5	22.67
16:44:00	30:00	50	50.88	5.99	170.88	0.95	1.81	16.5	25.38
16:49:00	35:00	50	51.15	5.95	173.45	1.02	1.9	16.4	28.55
16:54:00	40:00	50	51.42	5.9	171.8	0.76	1.93	16.3	30.52
16:59:00	45:00	50	51.63	5.93	170.38	0.14	1.92	16.3	30.85
17:04:00	50:00	50	51.91	5.92	173.39	0.76	1.95	16.2	32.14
17:09:00	55:00	50	52.18	6.02	173.52	1.42	1.97	16.4	31.79
17:14:00	00:00	50	52.45	6	172.23	0.24	1.97	16.3	31.19
17:19:00	05:00	50	52.64	5.95	171.43	0.18	2.02	16.2	31.67
17:24:00	10:00	50	52.74	5.94	171.84	0.53	2	16.1	33.03
17:29:00	15:00	50	52.91	5.89	172.05	0.53	2.18	15.9	36.18
17:31:00	17:11	50		5.86	173.09	0.49	2.21	15.8	37.14

Constituent Sampled	Container	Number
TDS	500 mL Plastic	1
RAD 9315/9320	1L Plastic	2
Cl, F, SO4	250 mL Plastic	1
Appendix III/IV	250 mL Plastic	1

Well Location:

Well Completion: NA

Condition of Well:



AP-2 Top of Inner	r Casing	Screen Setting (ft-bmp)	Weather	Casing	ar, winds at m	'	Well Casing Material	PVC	
	r Casing	Setting (ft-bmp)	49.18	•	(in) ²			PVC	
43.9		T . IS . I		Casing Diameter (in)		Material			
		i otal Depth (ft-k	th (ft-bmp) 59.48 Wate		15.58		Gallons in Well	2.53	
762.58		Pump Intake (ft- bmp)	54.5	Purge Met	thod Low-Flow	ı	Sample Method	Low-Flow	
09:20		Well Volumes Purged	0.75	Sample ID	YGWA-3	01	Sampled by	Khalil Carson	
08:36		Gallons Purged	Rep		Replicate/ Code No.		Color	Clear	
09:26									
tal Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperat °C		edox mV)
00:00	200	43.9	6.06	56.19		7.65	15.8	22	21.48
05:00	200	43.9	5.75	42.5		6.81	16.5	1	91.7
10:00	200	43.9	5.65	41.21	0.61	6.81	16.6	19	92.77
15:00	200	43.9	5.47	40.54	0.32	6.79	16.5	19	97.87
20:00	200	43.9	5.39	39.59	0.43	6.72	16.5	19	98.93
25:00	200	43.9	5.52	39.79	0.32	6.78	16.6	19	92.36
30:41	200	43.9	5.52	39.73	0.17	6.77	16.6	19	91.93
35:41	200	43.9	5.59	39.75	0.42	6.73	16.7	18	38.76
ed									
ulfate									
Chloride, Fluoride , Sulfate 250 mL Plastic 1 None Metals 250 mL Plastic 1 HNO3							NO3		
	08:36 09:26 al Elapsed Minutes 00:00 05:00 10:00 15:00 20:00 25:00 30:41 35:41	08:36 09:26 al Elapsed (mL/min) 00:00 200 05:00 200 10:00 200 15:00 200 20:00 200 25:00 200 30:41 200 35:41 200	09:20 Well Volumes Purged 08:36 Gallons Purged 09:26 Rate (mL/min) Depth to Water (ft) 00:00 200 43.9 05:00 200 43.9 10:00 200 43.9 20:00 200 43.9 25:00 200 43.9 30:41 200 43.9 35:41 200 43.9 ed Liffate Liffate	Well Volumes Purged 0.75 08:36 Gallons Purged 1.89 09:26 Depth to Water (ft) pH (standard units) 00:00 200 43.9 6.06 05:00 200 43.9 5.75 10:00 200 43.9 5.65 15:00 200 43.9 5.39 25:00 200 43.9 5.52 30:41 200 43.9 5.52 35:41 200 43.9 5.59 Container 500 mL Plastic ulfate 250 mL Plastic	O9:20 Well Volumes Depth to Code No.	O9:20 Well Volumes O.75 Sample ID YGWA-3	O9:20 Well Volumes O.75 Sample ID YGWA-30	O9:20 Well Volumes Purged 1.89 Replicate/ Code No. Color	O9:20 Well Volumes Purged 1.89 Replicate/ Code No. Color Clear

Well Locked at Arrival:

Key Number To Well: NA

Well Locked at Departure:



Project Numbe	er 30052923		Well ID	YGWA-1	D			Date	02/09/2022
Project Location	on AP-2			Weather	(°F) 57.9 degree	s F and Clear	The wind is I	olowing W at 8.	.1 mph.
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	78.05	Casing Diameter (i	n) ²		Well Casing Material	PVC
Static Water Level (ft-bmp)	48.84		Total Depth (ft-b	mp) 128.85) 128.85 Water Column(ft)			Gallons in Well	13
MP Elevation	837.25		Pump Intake (ft- bmp)	108	Purge Meth	nod Low-Flo	W	Sample Method	Low-Flow
Sample Time	14:45		Well Volumes Purged	es 0.12 Sample ID YGWA		YGWA-	1D	Sampled by	Kim Lapszynski
Purge Start	14:10		Gallons Purged	1.59	Replicate/ Code No.			Color	Clear
Purge End	14:41								
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Tempera °C	ture Redox (mV)
14:10:00	00:00	200		7.26	47.87	74.8	9.84	14.8	27.93
14:15:00	05:00	200	48.93	7.14	31.6	9.14	1.28	16.1	-52.75
14:20:00	10:00	200	48.99	7.13	66.76	5.96	0.6	16.1	-71.82
14:25:00	15:00	200	49.04	7.17	33.51	3.37	0.33	16	-86.68
14:30:00	20:00	200	49.04	7.2	30.75	3.16	0.27	16	-95.91
14:35:00	25:00	200	49.07	7.2	29.69	1.01	0.28	16	-96.24
14:40:00	30:00	200	49.09	7.12	30.84	1.27	0.3	16	-90.4
Constituent Sa	mpled		(Container			Number	P	reservative
TDS			<u> </u>	500 mL Plastic			1		lone
RAD 9315/9320)			IL Plastic			2		INO3
CI, F, SO4				250 mL Plastic	L Plastic 1			None	
Appendix III/IV	pendix III/IV Metals 250 m			250 mL Plastic	nL Plastic 1				INO3

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	
·		

Condition of Well:

Well Completion: NA



Project Number	r 30052923		Well ID	YGWA-3	D			Date	02/09/2022		
Project Locatio	n AP-2			Weather	(°F) It is Clear. T	he wind is blo	owing W/SW a	at 3.4 mph.			
Measuring Pt. Description	Top of Inne	Casing	Screen Setting (ft-bmp)	83.88	Casing Diameter (i	n) ²		Well Casing Material			
Static Water Level (ft-bmp)	30.23		Total Depth (ft-k	omp) 134.18	Water 103.95			Gallons in Well	16.89		
MP Elevation	796.78		Pump Intake (ft- bmp)	113	Purge Meth	od Low-Flov	v	Sample Method	Low-Flow		
Sample Time	10:20		Well Volumes Purged	0.05	Sample ID	YGWA-	BD	Sampled by	Kim Lapszy	nski	
Purge Start	09:51		Gallons Purged	0.91	Replicate/ Code No.			Color	Clear		
Purge End	10:14										
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (cm)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperat °C	ture	Redox (mV)	
09:51:00	00:00	150		8.52	223.85		11.02	11.6		146.52	
09:57:00	05:49	150		7.72	215.15		0.57	15	-	163.37	
10:02:00	10:49	150	30.34	7.87	213.86		0.17	15.4	-	160.88	
10:07:00	15:49	150	30.35	7.94	213.95	0.36	0.11	15.7	-	166.55	
10:09:00	18:03	150		7.95	213.88	0.95	0.09	15.8		-169.2	
10:14:00	23:03	150	30.35	7.97	213.55	0.11	0.09	15.8	-	174.12	
Constituent Sa	mpled			Container 500 mL Plastic			Number		reservative		
RAD 9315/9320	1			1L Plastic					HNO3		
CI,F,SO4				250 mL Plastic					one		
Appendix III/IV N	Vetals			250 mL Plastic			1		NO3		
Comments:		level range d	uring purging acti		-30.35 ft-bmp		<u>'</u>	<u> </u>	1403		
Well Casing Vo	lume Conversion	n									
Well diameter (inches) = gallons per foot $1 = 0.04 \ 1.5 = 0.09 \ 2.5$ $1.25 = 0.06 \ 2 = 0.16 \ 3 =$											
Well Informatio	n										
Well Locat	tion:				Well Locked at Arr	rival:					

Well Locked at Departure:

Key Number To Well: NA

Condition of Well:

Well Completion: NA



Project Number	30053438		Well ID	YGWA-1	14S			Date	02/10/2	2022	
Project Location	n AP-2			Weather	r(°F) 65.8 degree	s F and Clear	. The wind is b	lowing W/SW	at 6.9 m	ph.	
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	24.66	Casing Diameter (i	n) ²		Well Casing Material	PVC		
Static Water Level (ft-bmp)	18.52		Total Depth (ft-l	omp) 34.96	Water Column(ft)	16 44		Gallons in Well	2.67		
MP Elevation	748.76	bmp)		30	30 Purge Method Low-Flow		N/	Sample Method	Low-Flow		
Sample Time	16:20		Well Volumes Purged	0.40	Sample ID	YGWA-1	14S	Sampled by	Khalil (Carson	
Purge Start	15:53		Gallons Purged	1.06	Replicate/ Code No.	Up-DUP	-2	Color	Clear		
Purge End	16:39										
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Tempera °C	ture	Redox (mV)	
15:53:00	00:00	200	18.52	4.9	63.46		6.61	18.2		196.17	
15:58:00	05:00	200	19.65	4.47	63.88	0.37	5.84	18.1		235.99	
16:03:00	10:00	200	19.65	4.52	64.03	0.38	5.8	18.1		244.08	
16:08:00	15:00	200	19.65	4.52	64.11	0.46	5.77	18.1		250.58	
16:13:00	20:00	200	19.65	4.5	64.25	0.27	5.74	18.1		256.98	
Constituent Sar	mpled			Container 500 mL Plastic			Number 2		reservat	tive	
RAD Chem				1L Plastic	L Plastic 4				HNO3		
Vetals				250 mL Plastic	nL Plastic 2			HNO3			
Chloride,Fluoride	,Sulfate			250 mL Plastic			2	N	lone		
Comments: Well Casing Vol Well diameter (in					.5 = 0.50 6 = 1.47						
M/- II I	_		1.25 = 0.06 2 = 0	0.16 3 = 0.37 4	= 0.65						
Well Information											
Well Locat	ion:				Well Locked at Arr	ival:					

Well Locked at Departure:

Key Number To Well: NA

Well Location:

Well Completion: NA

Condition of Well:



Project Location			Well ID	YGWA-5	טט			Date	02/10/	2022
	n AMA AP-3	B, A, B and B'		Weather	r(°F) 65.8 degre	ees F and Cl	ear. The wind is	blowing W/N\	N at 5.8	mph.
Measuring Pt. Description	Top of Inn	er Casing	Screen Setting (ft-bmp	78.83	Casing Diameter	(in) ²		Well Casing Material	PVC	
Static Water Level (ft-bmp)	19.52		Total Depth (ft- bmp)	129.13	Water Column(f	t) 109.61		Gallons in Well	17.81	
MP Elevation	784.53		Pump Intake (ft bmp)	124	124 Purge Method			Sample Method	Low-F	low
Sample Time	ole Time 17:40 Well Volumes Purged		0.06	Sample II	YGWA	ı-5D	Sampled by	Khalil	Carson	
Purge Start	17:10		Gallons Purgeo	1.06	Replicate Code No.			Color	Clear	
Purge End	18:21									
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperat °C	ture	Redox (mV)
17:10:00	00:00	200	19.52	6.70	201.38	7.53	2.33	16.4		-82.19
17:15:00	05:00	200	20.35	7.02	219.86	4.55	0.13	16.6		-128.55
17:20:00	10:00	200	20.35	7.00	208.73	2.03	0.09	16.5		-141.68
17:25:00	15:00	200	20.35	6.99	203.50	0.41	0.07	16.5		-143.96
17:30:00	20:00	200	20.35	6.99	201.44	0.04	0.06	16.4		-145.53
Constituent San	npled			Container			Number	P	reserva	itive
TDS			,	500 mL Plastic			1	N	lone	
RAD Chem				1L Plastic	Plastic 2			HNO3		
Chloride,FLUOR	IDE ,Sulfate			250 mL Plastic	50 mL Plastic 1			None		
Metals 250							1	 H	INO3	
Comments:										
Well Casing Vol	ume Conver	sion								
Well diameter (in	ches) = gallor	ns per foot	1 = 0.04 1.5 = 0 1.25 = 0.06 2 =		3.5 = 0.50 6 = 1.47 4 = 0.65					

Well Locked at Arrival:

Key Number To Well: NA

Well Locked at Departure:



Project	Number	30052918		Well ID		YGWA-18I				Date	02	2/09/2022	
Project Name/L	ocation	AMA AP-3,	A, B, A			Weather(°	F) 57.0 deg	grees F a	nd Clear. The w	rind is blowing W	/NW at 6	6.9 mph.	
Measur Descrip	·	Top of Inner	Casing	Screen Setting (ft	-bmp)	69.97-79.9	7 Casing Diamete	er (in)	2	Well Cas Material	ing P	PVC	
Static V Level (f		23		Total Dep	Total Depth (ft-bmp)		Water Column	Water Column(ft)		Gallons Well	in 9.	26	
MP Elev	ation	790.57		Pump Inta bmp)	ump Intake (ft- 75 Pr		Purge N	Purge Method Low-Flow		Sample Method	Lo	ow-Flow	
Sample	Time	14:31		Volumes	Purged	0.26	Sample	ID	YGWA-18I	Sampled	l by Je	essica Ware	
Purge S	Start	14:05		Gallons P	urged	2.44	Replica Code N						
Purge E	nd	14:42											
Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbid (NTU	Ovvaan	Temperature °C	Redox (mV)	Appea	arance Odor
14:15	0	0	250	23.31	0.66	6.00	0.097	2.43		14.81	182.6	Clear	None
14:20	5	5	250	23.38	0.99	5.98	0.095	0.70	3.51	14.93	186.9	Clear	None
14:25	5	10	250	23.37	1.32	5.98	0.095	0.52	3.52	15.13	190.1	Clear	None
	uent Sampl				Container 500 mL Pla	ıstic			Number		Prese None	rvative	
RAD 93	15/9320			-	1L Plastic			_	2		HNO3	}	
Cl, F, S	O4				250 mL Pla	stic		-	1		None		
App III/I	V Metals			-	250 mL Plastic			_	1		HNO3	}	
Comme Well Ca		e Conversio	n					_					
Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47													

Well Information

Well Locked at Arrival: yes

Condition of Well: Good condition

Well Locked at Departure: yes

Well Completion: Stick-up

Key Number To Well: NA

1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65



Project Numbe	r 30052923		Well ID	YGWA-5	il			Date	02/10/20	22
Project Locatio	n AMA AP-3,	A, B and B'		Weather	(°F) 65.8 degree	es F and Clear	The wind is	blowing W/NW	at 5.8 mpl	n.
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	48.64	Casing Diameter (i	in) ²		Well Casing Material	PVC	
Static Water Level (ft-bmp)	17.94		Total Depth (ft-k	omp) 58.94	Water Column(ft)	ft) 41		Gallons in Well	6.66	
MP Elevation	784.54		Pump Intake (ft- bmp)	53	53 Purge Method		d Low-Flow		Low-Flow	v
Sample Time	17:43		Well Volumes Purged	0.16	Sample ID	YGWA-5	il .	Sampled by	Mark Ch	est
Purge Start	17:05		Gallons Purged	1.06	Replicate/ Code No.	UP-DUP	-3	Color	Clear	
Purge End	17:25									
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Tempera °C	ature	Redox (mV)
17:05:00	00:00	200	17.94	6.85	98.05	6.03	7.71	16.4		197.08
17:10:00	05:00	200	18.38	5.14	77.62	0.12	6.1	16.6		246.13
17:15:00	10:00	200	18.38	5.12	77.78	0.13	6.11	16.5		247.72
17:20:00	15:00	200	18.38	5.13	77.2	0.08	6.13	16.5		249
17:25:00	20:00	200	18.38	5.14	78.65	0.87	6.13	16.4		250.28
Constituent Sa	mpled			Container			Number	F	Preservativ	/e
RAD Chem				IL Plastic 4				H	HNO3	
rds .				1L Plastic			2	None		
Metals			-	250 mL Plastic	250 mL Plastic 2			HNO3		
Cl, F, SO4 250						<u> </u>	lone			
										
Comments:										
Wall Casing Va	lume Conversion	on								
wen casing vo										

Well Information	
Well Location:	Well Locked at Arrival:
Condition of Well:	Well Locked at Departure:
Well Completion: NA	Key Number To Well: NA

Condition of Well:

Well Completion: NA



Project Number	30053438		Well ID	YGWA-4I				Date	02/11/202	22
Project Location	n AMA AP-3,	A, B and B'		Weather	(°F) 46.6 degree	s F and Clear	r. The wind is b	olowing W/SW	at 3.4 mph	
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	38.51	Casing Diameter (i	n) ²		Well Casing Material	PVC	
Static Water Level (ft-bmp)	22.21		Total Depth (ft-l	omp) 48.81	Water Column(ft)	26.6		Gallons in Well	4.32	
MP Elevation	784.21		Pump Intake (ft- bmp)	45	Purge Meth	nod Low-Flo	w	Sample Method	Low-Flow	
Sample Time	10:40		Well Volumes Purged	0.21	Sample ID	YGWA-	41	Sampled by	Khalil Car	son
Purge Start	10:13		Gallons Purged	0.92	Replicate/ Code No.			Color	Clear	
Purge End	10:55									
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperar °C	ture	Redox (mV)
10:13:00	00:00	200	22.21	5.67	113.64	2.83	7.6	13.6		206.98
10:18:00	05:00	200	25.15	6.03	141.88	0.41	1.29	15.6		187.93
10:23:00	10:00	150	26.75	5.98	131.39	0.61	1.82	15.6		188.25
10:28:00	15:00	150	26.6	5.96	130.68	0.38	1.85	15.3		189.93
10:33:00	20:00	150	26.6	5.95	130.2	0.42	1.87	15.4		190.98
Constituent Sam	npled			Container			Number	-	reservative	•
RAD Chem			<u> </u>	500 mL Plastic			1 2		lone INO3	
Chloride,Fluoride	Sulfate			250 mL Plastic			1		lone	
Metals	,ounate		<u> </u>	250 mL Plastic			1		INO3	
Comments:										
Well Casing Volu	ume Conversion	on								
Well diameter (ind	ches) = gallons	per foot	1 = 0.04 1.5 = 0. 1.25 = 0.06 2 = 0							
Well Information	1									
Well Location	ion·				Well Locked at Arr	rival:				

Well Locked at Departure:

Key Number To Well: NA



Project Number	30052918	Well ID	YGWA-17S			Date	02/09/2022
Project Name/Location	AMA AP-3, A, B and B		Weather(°F)	Sunny, clear, 46	6 degrees Fahrenheit		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	29.65-39.65	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	11.7	Total Depth (ft-bmp)	39.97	Water Column(ft)	28.27	Gallons in Well	4.59
MP Elevation	783.05	Pump Intake (ft- bmp)	35	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	10:20	Volumes Purged	0.58	Sample ID	YGWA-17S	Sampled by	Jessica Ware
Purge Start	09:46	Gallons Purged	2.64	Replicate/ Code No.			

Purge End 10:36

Time	Minutes	Total	Rate	Depth to Water		pH (standard	Conductivity	Turbidity	Dissolved	Temperature	Redox	Appea	rance
Tille	Elapsed	Elapsed Minutes	mL/min	(ft)	Purged	units)	(mS/cm)	(NTU)	Oxygen (mg/L)	°C	(mV)	Color	Odor
09:56	0	0	200	12.05	0.53	5.56	0.122	6.67	2.00	14.04	181.0	Clear	None
10:01	5	5	200	12.07	0.79	5.54	0.122	3.67	1.83	14.08	187.0	Clear	None
10:06	5	10	200	12.06	1.06	5.53	0.121	4.20	1.67	14.14	192.3	Clear	None
10:11	5	15	200	12.04	1.32	5.53	0.12	2.97	1.58	14.25	197.1	Clear	None
10:16	5	20	200	12.07	1.59	5.53	0.12	2.52	1.57	14.38	200.3	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Dissolved Solids	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV 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: AMA Well Locked at Arrival: yes

Condition of Well: Good condition Well Locked at Departure: yes

Well Completion: Stick-up Key Number To Well: NA



Project Number	30052918	Well ID	YGWA-18S			Date	02/09/2022
Project Name/Location	AMA AP-3, A, B, A		Weather(°F)	50.2 degrees F	and Clear. The wind is l	blowing SW at 4	4.7 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	29.97-39.97	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	19.74	Total Depth (ft-bmp)	39.97	Water Column(ft)	20.23	Gallons in Well	3.29
MP Elevation	790.57	Pump Intake (ft- bmp)	35	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	12:24	Volumes Purged	0.89	Sample ID	YGWA-18S	Sampled by	Jessica Ware
Purge Start	11:20	Gallons Purged	2.92	Replicate/ Code No.			

Purge End 13:03

Time	Minutes Elapsed		Rate	Depth to Water	Gallons	pH (standard	Conductivity	Turbidity	Dissolved	Temperature	Redox	Appea	rance
Time	Elapsed	Minutes	mL/min	(ft)	Purged	units)	(mS/cm)	(NTU)	Oxygen (mg/L)	°C	(mV)	Color	Odor
11:30	0	0	150	20.21	0.40	5.51	0.067	13.5	3.71	12.46	227.8	Clear	None
11:35	5	5	150	20.23	0.59	5.41	0.067	13.4	3.04	12.98	220.8	Clear	None
11:40	5	10	100	20.14	0.73	5.35	0.068	13.7	2.32	13.23	219.9	Clear	None
11:45	5	15	100	20.06	0.86	5.31	0.068	12.5	2.26	13.17	220.8	Clear	None
11:50	5	20	100	20.09	0.99	5.29	0.067	10.3	1.88	13.15	219.7	Clear	None
11:55	5	25	100	20.13	1.12	5.30	0.068	7.97	1.87	13.30	218.0	Clear	None
12:00	5	30	100	20.12	1.25	5.30	0.068	7.46	1.80	13.48	217.3	Clear	None
12:05	5	35	100	20.11	1.39	5.30	0.068	5.99	1.82	13.59	215.2	Clear	None
12:10	5	40	100	20.14	1.52	5.29	0.068	4.62	1.80	13.67	214.3	Clear	None
12:15	5	45	100	20.12	1.65	5.29	0.068	4.33	1.85	13.69	213.2	Clear	None
12:20	5	50	100	20.10	1.78	5.28	0.068	3.23	1.77	13.68	213.6	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Dissolved Solids	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV 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:	yes
Condition of Well:	Good condition	Well Locked at Departure:	yes
Well Completion:	Stick-up	Key Number To Well:	NA



Project Number	30052916	Well ID	YGWA-39			Date	02/08/2022
Project Name/Location	GPC Yates Phase I AF	P-B Site	Weather(°F)	65 degrees F ar	nd Clear. The wind is blo	owing W/SW.	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	58.09-68.09	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	17.62	Total Depth (ft-bmp)	68.59	Water Column(ft)	50.97	Gallons in Well	8.28
MP Elevation	818.19	Pump Intake (ft- bmp)	63	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:55	Volumes Purged	0.26	Sample ID	YGWA-39	Sampled by	Kim Lapszynski
Purge Start	14:13	Gallons Purged	2.11	Replicate/ Code No.			

Purge End 14:54

Time	Minutes	Total	Rate	Depth to Water	Gallons	pH (atom dored	Conductivity	Turbidity	Dissolved	Temperature	Redox	Appea	rance
Time	Elapsed	Elapsed Minutes	mL/min	(ft)	Purged	(standard units)	(mS/cm)	(NTU)	Oxygen (mg/L)	°C	(mV)	Color	Odor
14:23	0	0	200	17.62	0.53	5.78	0.381	0.15	0.40	16.43	68.9	Clear	None
14:28	5	5	200	18.07	0.79	5.78	0.382	0.02	0.28	16.52	72.9	Clear	None
14:33	5	10	200	18.08	1.06	5.78	0.381	0.07	0.25	16.41	76.8	Clear	None
14:38	5	15	200	18.09	1.32	5.75	0.373	0.02	0.22	16.28	86.2	Clear	None
14:43	5	20	200	18.09	1.59	5.77	0.368	0.39	0.20	16.28	89.9	Clear	None
14:48	5	25	200	18.11	1.85	5.78	0.367	0.56	0.20	16.21	89.6	Clear	None
14:53	5	30	200	18.11	2.11	5.78	0.366	0.06	0.19	16.24	92.0	Clear	None

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320	1L Plastic	2	HNO3
Total Dissolved Solids	500 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None
Appendix III/IV 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 Locked at Arrival: yes

Condition of Well: Good condition

Well Locked at Departure: yes

Well Completion: Stick-up

Key Number To Well: NA



Project Number	30052918	Well ID	YGWA-21I			Date	02/09/2022
Project Name/Location	AMA AP-3, A, B, A		Weather(°F)	Sunny, clear, 60) degrees Fahrenheit		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.6-79.6	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	29.61	Total Depth (ft-bmp)	79.9	Water Column(ft)	50.29	Gallons in Well	8.17
MP Elevation	783.7	Pump Intake (ft- bmp)	75	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	17:40	Volumes Purged	0.46	Sample ID	YGWA-21I	Sampled by	Jessica Ware
Purge Start	17:06	Gallons Purged	3.80	Replicate/ Code No.			

Purge End 18:21

Time	Minutes	Total Elapsed	Rate	Depth to Water	Gallons Purged	pH (standard	Conductivity	Turbidity	Dissolved	Temperature	Redox	Appea	rance
Time	Elapsed	Minutes	' mi/min	(ft)		units)	(mS/cm)	(NTU)	Oxygen (mg/L)	°C	(mV)	Color	Odor
17:16	0	0	250	32.85	0.66	6.81	0.143	3.84	0.82	15.17	-50.9	Clear	None
17:21	5	5	250	33.11	0.99	6.85	0.144	2.31	0.54	15.13	-81.5	Clear	None
17:26	5	10	200	33.27	1.25	6.85	0.144	1.57	0.38	15.04	-79.2	Clear	None
17:31	5	15	175	33.34	1.49	6.85	0.144	2.27	0.36	14.99	-80.0	Clear	None
17:36	5	20	175	33.25	1.72	6.84	0.143	1.19	0.33	14.82	-86.9	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Dissolved Solids	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	1	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0

 $1 = 0.04 \ 1.5 = 0.09 \ 2.5 = 0.26 \ 3.5 = 0.50 \ 6 = 1.47$

1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: Well Locked at Arrival: yes

Condition of Well: Good condition Well: Good condition Well Locked at Departure: yes

Well Completion: Stick-up Key Number To Well: NA



Project Number	30052918	Well ID	YGWA-20S			Date	02/09/2022
Project Name/Location	AMA AP-3, A, B, A		Weather(°F)	Sunny, clear, 62	2 degrees Fahrenheit		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	19.22-29.52	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	11.02	Total Depth (ft-bmp)	29.52	Water Column(ft)	18.5	Gallons in Well	3.01
MP Elevation	767.12	Pump Intake (ft- bmp)	24.5	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	16:19	Volumes Purged	1.19	Sample ID	YGWA-20S	Sampled by	Jessica Ware
Purge Start	15:35	Gallons Purged	3.59	Replicate/ Code No.			

Purge End 16:38

Time	Minutes	utes Total	Total Rate	Depth to Water		pH (standard	Conductivity	Turbidity	Dissolved	Temperature	Redox	Appea	rance
Tille	Elapsed	Minutes	mL/min	(ft)	Purged	units)	(mS/cm)	(NTU)	Oxygen (mg/L)	°C	(mV)	Color	Odor
15:45	0	0	250	11.78	0.66	5.96	0.047	19.3	7.42	14.69	252.1	Clear	None
15:50	5	5	250	11.75	0.99	5.94	0.047	11.6	7.18	14.67	236.3	Clear	None
15:55	5	10	250	11.77	1.32	5.93	0.047	9.03	7.16	14.65	228.2	Clear	None
16:00	5	15	200	11.64	1.59	5.93	0.046	6.99	6.90	14.65	223.0	Clear	None
16:05	5	20	200	11.49	1.85	5.91	0.045	4.05	6.98	14.38	222.3	Clear	None
16:10	5	25	200	11.42	2.11	5.91	0.045	3.40	6.93	14.33	220.7	Clear	None
16:15	5	30	200	11.41	2.38	5.91	0.045	3.55	6.89	14.22	220.0	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Dissolved Solids	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV 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: yes

 Condition of Well:
 Good condition

 Well Completion:
 Stick-up

 Well Locked at Departure:
 yes

 Key Number To Well:
 NA



Project Numbe	r 30052923	Well ID	YGWA-47			Date	02/08/2022
Project Locatio	n AP-1		Weather(°	°F) 53.4 degrees F	and Clear. The	wind is blowing N/NE a	t 10.3 mph.
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)	34.8	Total Depth (ft-bmp)	59.19	Water Column(ft)	24.39	Gallons in Well	3.96
MP Elevation	758.22	Pump Intake (ft- bmp)	54	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	11:40	Well Volumes Purged	0.40	Sample ID	YGWA-47	Sampled by	Mark Chest
Purge Start	11:12	Gallons Purged	1.59	Replicate/ Code No.		Color	Clear
Purge End	11:37						
	Total Elapsed Rate	Depth to	pH	Specific Tu	rbidity	ssolved Tempera	ture Redox

	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)
	11:12:00	00:00	200	34.8	5.15	193.83		2.88	17.3	238.85
	11:17:00	05:00	200	35.55	5.24	195.95		2.87	17	241.34
	11:22:00	10:00	200	35.55	5.3	197.08	0.8	2.93	17.1	240.91
Ī	11:27:00	15:00	200	35.55	5.38	196.93	0.22	2.95	17.1	238.23
	11:32:00	20:00	200	35.55	5.42	197.63	0.22	2.86	17	237.76
	11:37:00	25:00	200	35.55	5.4	197.93	0.19	2.82	17.2	239.78

Constituent Sampled	Container	Number	Preservative
Metals	250mL HDPE Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Wet Chem Non Metals	250 mL Plastic	1	None

201

0.37

2.95

18.2

229.25

Comments:

11:42:00

Well Casing Volume Conversion

30:00

Well diameter (inches) = gallons per foot $1 = 0.04 \ 1.5 = 0.09 \ 2.5 = 0.26 \ 3.5 = 0.50 \ 6 = 1.47$

200

35.55

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

5.53



Project Number	er 30053438		Well ID	GWA-2				Date	02/08/2022
Project Location	on Gypsum La	ındfill		Weathe	r(°F) 38.8 degre	es F and Clear	. The wind is t	olowing N at 11	.4 mph.
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	42.1	Casing Diameter ((in) ²		Well Casing Material	PVC
Static Water Level (ft-bmp)	36.42		Total Depth (ft-b	omp) 52.13	Water Column(ft	15.71		Gallons in Well	2.55
MP Elevation	805.62		Pump Intake (ft- bmp)	47	Purge Met	hod Low-Flow	N	Sample Method	Low-Flow
Sample Time	10:45		Well Volumes Purged	0.26	Sample ID	GWA-2		Sampled by	Khalil Carson
Purge Start	10:14		Gallons Purged	0.66	Replicate/ Code No.	UP-DUP	·-1	Color	Clear
Purge End	10:40								
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperat °C	Redox (mV)
10:14:00	00:00	100	36.42	5.84	450.71		1.28	15	181.1
10:19:00	05:00	100	37.25	5.8	427.58	2.88	1.18	15.1	184.46
10:24:00	09:56	100	37.4	5.8	420.36	2.7	1.04	15.2	184.8
10:29:00	14:56	100	37.52	5.82	417.21	1.81	0.93	15.4	179.34
10:34:00	19:56	100	37.45	5.83	415.26	1.05	0.95	14.5	178.52
10:39:00	24:56	100	37.45	5.83	414.33	0.85	0.97	14.5	174.43
Constituent Sa	ımpled			Container			Number	P	reservative
TDS				500 mL Plastic			2	N	lone
RAD Chem				1L Plastic	,		4	н	NO3
Metals				250 mL Plastic	,		2	H	INO3
Chloride,Fluorid	e,Sulfate			250 mL Plastic			2	N	lone

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: N	IA	Key Number To Well:	NA



Project Number	30052916	Well ID	YGWA-40			Date	02/08/2022	
Project Name/Location	GPC Yates Phase I AP	P-B Site	Weather(°F)	50.7 degrees F and Clear. The wind is blowing N/NE at 10.3 mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	37.73-47.73	Casing Diameter (in)	2	Well Casing Material	PVC	
Static Water Level (ft-bmp)	22.72	Total Depth (ft-bmp)	48.23	Water Column(ft)	25.51	Gallons in Well	4.15	
MP Elevation	815.73	Pump Intake (ft- bmp)	42	Purge Method	Low-Flow	Sample Method	Low-Flow	
Sample Time	13:22	Volumes Purged	0.38	Sample ID	YGWA-40	Sampled by	Kim Lapszynski	
Purge Start	12:49	Gallons Purged	1.59	Replicate/ Code No.				

Purge End 13:38

Time	Minutes	Total Elapsed	Rate	Depth to Water		pH (standard	Conductivity	Turbidity	Dissolved	Temperature	Redox	Appea	rance
Tille	Elapsed	Minutes	mL/min	(ft)	Purged	units)	(mS/cm)	(NTU)	Oxygen (mg/L)	°C	(mV)	Color	Odor
12:59	0	0	200	23.91	0.53	5.35	0.124	1.31	1.06	15.73	206.9	Clear	None
13:04	5	5	200	23.94	7.93	5.34	0.123	0.35	0.85	15.77	211.4	Clear	None
13:09	5	10	200	23.97	10.57	5.30	0.119	0.02	0.73	15.72	211.6	Clear	None
13:14	5	15	200	23.97	1.32	5.29	0.118	0.44	0.60	15.81	211.1	Clear	None
13:19	5	20	200	23.98	1.59	5.26	0.118	0.02	0.53	15.75	211.7	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Dissolved Solids	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
Appendix III/IV Metals	500 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 Locked at Arrival: yes

Condition of Well: Good condition

Well Locked at Departure: yes

Condition of Well: Good condition Well Locked at Departure: yes

Well Completion: Stick-up Key Number To Well: NA



Proje	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:	YGWC-29I]		
Perso	on Gauging:	Mark Chest			
	Date:	2/7/2022			
	Time:	13:44:00	ļ		
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	\square		
	С	Is the well in a high traffic area and does the well require protection from traffic?			
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	\square		
	С	Does the casing have a functioning weep hole?	\square		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	\square		
	b	Is the well pad sloped away from the protective casing?	$\overline{\mathbf{A}}$		
	С	Is the well pad in complete contact with the protective casing?	\square		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	\square		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	\square		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	\square		
	С	Is the well properly vented for equilibration of air pressure?	\square		
	d	Is the survey point clearly marked on the inner casing?	$\overline{\mathbf{A}}$		
	e	Is the depth of the well consistent with the original well log?	$\overline{\mathbf{A}}$		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?			
6		ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?			
7	Corrective	ctions as needed, by date:		_	_
,	COTTECTIVE 4	ctions as needed, by date.			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2	1		
Perm	nit Number:		_		
		YGWC-28S	_		
Perso	on Gauging:		-		
		2/7/2022	-		
	Time:	13:48:00	Vaa	NI-	NI/A
1	Location Ide		Yes	No	N/A
ı					
	a	Is the well visible and accessible?			
	b	Is the well properly identified with the correct well ID?	<u> </u>		
	С	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	V		
	С	Does the casing have a functioning weep hole?	V		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	V		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	V		
	b	Is the well pad sloped away from the protective casing?	V		
	С	Is the well pad in complete contact with the protective casing?	V		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	· · ·			
	а	Does the cap prevent entry of foreign material into the well?	V		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	V		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	v		
	e	Is the depth of the well consistent with the original well log?			
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand			
		due to lack of grout or use of slip couplings in construction)	I		
5	Sampling: G	roundwater Wells Only:			
	а	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	our professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	V		
7	Corrective a	ctions as needed, by date:			
	None				
0	Date by who	en corrective actions are needed:			
o	Date by Wile	TOTICCHYC ACTIONS ARE NEEDED.			



Proje	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:	YGWC-28I			
Perso	on Gauging:	Mark Chest			
		2/7/2022			
	Time:	13:49:00			i
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		\square	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)			
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi				
	а	Does the cap prevent entry of foreign material into the well?			
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	$\overline{\mathbf{Q}}$		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	e	Is the depth of the well consistent with the original well log?		_	
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	a		
5	Sampling: G	roundwater Wells Only:			
,		Does well recharge adequately when purged?			
	a b	If dedicated sampling equipment installed, is it in good condition and specified in the approved	_		_
		groundwater plan for the facility?		☑	
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	our professional judgement, is the well construction / location:		_	_
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	☑		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2	-		
Perm	nit Number:		-		
		YGWC-27S	-		
Perso	on Gauging:		-		
		2/7/2022	-		
	Time:	13:53:00	V	NI-	NI/A
1	Location Ide		Yes	No	N/A
ı					
	a	Is the well visible and accessible?			
	b	Is the well properly identified with the correct well ID?	<u> </u>		
	С	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	\square		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	V		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	V		
	b	Is the well pad sloped away from the protective casing?	V		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	· · ·			
	а	Does the cap prevent entry of foreign material into the well?	$\overline{\mathbf{A}}$		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	V		
	С	Is the well properly vented for equilibration of air pressure?	\square		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	I		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand	_	_	_
		due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	а	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	our professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
	None				
Я	Date by whe	en corrective actions are needed:			
3	_ acc by will	cococ deliana die necessi.			



Proje	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:	YGWC-27I			
Perso	n Gauging:	Mark Chest			
	Date:	2/7/2022			
	Time:	13:55:00	igsqcup		
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?			
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	\square		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	\square		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	\square		
	d	Is the survey point clearly marked on the inner casing?	\square		
	е	Is the depth of the well consistent with the original well log?	\square		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	our professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	\square		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
	None				
8	Date by whe	en corrective actions are needed:			



Duala	at I a aatia	AD 2			
	ct Location: nit Number:	AF-2	1		
Pelli		YGWC-26S	1		
Perso	n Gauging:		1		
		2/7/2022	1		
	Time:	14:01:00			
			Yes	No	N/A
1	Location Ide	ntification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	V		
	С	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	V		
	b	Is the casing free of degradation or deterioration?	V		
	С	Does the casing have a functioning weep hole?	V		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	V		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	V		
	b	Is the well pad sloped away from the protective casing?	v		
	С	Is the well pad in complete contact with the protective casing?	V		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	V		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	V		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	V		
	d	Is the survey point clearly marked on the inner casing?	V		
	е	Is the depth of the well consistent with the original well log?	V		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		Ø	
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	v		
		and 2) comply with the applicable regulatory requirements?	v		
7	Corrective a	ctions as needed, by date:			
	None				
8	Date by whe	en corrective actions are needed:			



			1		
	ct Location:	AP-2	-		
Perm	nit Number:		-		
		YGWC-26I	-		
Perso	on Gauging:				
		2/7/2022			
	Time:	14:03:00			
			Yes	No	N/A
1	Location Ide				
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	☑		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	V		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	e	Is the depth of the well consistent with the original well log?	Ø		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		Ø	
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on vo	ur professional judgement, is the well construction / location:			
	, , , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	$\overline{\mathbf{V}}$		
		and 2) comply with the applicable regulatory requirements?	$\overline{\mathbf{Z}}$		
7	Corrective a	ctions as needed, by date:			
,	Jon Court di				
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:	PZ-25S			
Perso	n Gauging:	Khalil Carson			
		2/7/2022			
	Time:	14:59:00			
			Yes	No	N/A
1	Location Ide				
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?	Ø		
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	· ·			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?			V
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			V
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\mathbf{V}}$	
6		ur professional judgement, is the well construction / location:			
	- ,-	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	<u></u>		
7	Corrective a	ctions as needed, by date:		•	-
,	Corrective a	enons as necaea, by date.			
8	Date by whe	en corrective actions are needed:			



	ct Location:	AP-2	-		
Perm	nit Number:	DZ 2FL	-		
Dawas	Well ID: on Gauging:		1		
Perso		2/7/2022	-		
		15:02:00	1		
	Tillie.	1502.00	Yes	No	N/A
1	Location Ide	ntification:	103	110	14//
	а	Is the well visible and accessible?	V		
	b	Is the well properly identified with the correct well ID?	V		
	С	Is the well in a high traffic area and does the well require protection from traffic?	Ø		
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	V		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	V		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	а	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Cas	ng			
	а	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?			V
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			Ø
	С	Does the well require redevelopment (low flow, turbid)?		Ø	
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:	PZ-3S			
Perso	n Gauging:	Jessica Ware			
	Date:	2/7/2022			
	Time:	15:23:00	igsqcup		
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		\square	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	\square		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?		\square	
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	\square		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	\square		
	d	Is the survey point clearly marked on the inner casing?	\square		
	е	Is the depth of the well consistent with the original well log?			Ø
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	our professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
	Tall grass				
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:	PZ-1S			
Perso	on Gauging:	Jessica Ware			
	Date:	2/7/2022			
	Time:	15:45:00			
			Yes	No	N/A
1	Location Ide	ntification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	V		
	С	Does the casing have a functioning weep hole?	V		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?			Ø
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	☑		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:	PZ-13S			
Perso	n Gauging:	Jessica Ware			
		2/7/2022			
	Time:	15:49:00			
			Yes	No	N/A
1	Location Ide				
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		V	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?			
4	Internal Casi	· ·			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	\square		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	e	Is the depth of the well consistent with the original well log?			V
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on vo	ur professional judgement, is the well construction / location:			
	- ,-	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	<u></u>		
7	Corrective a	ctions as needed, by date:		•	-
,	Corrective a	caons as necaca, by date.			
8	Date by whe	en corrective actions are needed:			



Droie	ct Location:	AP-2			
	nit Number:		1		
	Well ID:	PZ-13I	1		
Perso	on Gauging:		1		
		2/7/2022	1		
	Time:	15:53:00			
			Yes	No	N/A
1	Location Ide	ntification:			
	а	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		V	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?			
	b	Is the casing free of degradation or deterioration?	\square		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	\square		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	а	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?			Ø
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	а	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:				
Perso	on Gauging:	Khalil Carson			
	Date:	2/8/2022			
	Time:	08:41:00			
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	\square		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		$\overline{\checkmark}$	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	\square		
	С	Does the casing have a functioning weep hole?	\square		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	а	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	Ø		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	\square		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			Ø
	С	Does the well require redevelopment (low flow, turbid)?		V	
6		ur professional judgement, is the well construction / location:			
	-)-	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	\square		
		and 2) comply with the applicable regulatory requirements?			
7	Corrective a	ctions as needed, by date:	·		_
,	corrective a	enons as necessary by suite.			
8	Date by whe	en corrective actions are needed:			



			1		
	ct Location:	AP-2	-		
Perm	nit Number:		-		
	Well ID:		-		
Perso	on Gauging:				
		2/8/2022	-		
	Time:	08:48:00			
			Yes	No	N/A
1	Location Ide				
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?	\square		
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	☑		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	\square		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	\square		
	b	Is the well pad sloped away from the protective casing?	\square		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	\square		
	e	Is the depth of the well consistent with the original well log?	\square		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	\square		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			Ø
	С	Does the well require redevelopment (low flow, turbid)?		Ø	
6	Based on vo	ur professional judgement, is the well construction / location:			
	- ,-	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	\square		
		and 2) comply with the applicable regulatory requirements?	\square		
7	Corrective a	ctions as needed, by date:			
,	Jon Court di	and the control of date.			
8	Date by whe	en corrective actions are needed:			

Upgradient Wells



	ct Location:	AP-2	-		
Perm	nit Number:		-		
		YGWA-30I	-		
Perso	on Gauging:		-		
		2/8/2022	-		
	Time:	08:55:00			
			Yes	No	N/A
1	Location Ide				
	а	Is the well visible and accessible?	☑		
	b	Is the well properly identified with the correct well ID?	\square		
	С	Is the well in a high traffic area and does the well require protection from traffic?		☑	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	\square		
	b	Is the casing free of degradation or deterioration?	\square		
	С	Does the casing have a functioning weep hole?	\square		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	\square		
3	Surface Pad				
	а	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	$\overline{\mathbf{A}}$		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	\square		
4	Internal Casi	1 1			
	а	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	$\overline{\mathbf{A}}$		
	С	Is the well properly vented for equilibration of air pressure?	\square		
	d	Is the survey point clearly marked on the inner casing?	\square		
	e	Is the depth of the well consistent with the original well log?	<u>_</u>		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	I		
5	Sampling: G	roundwater Wells Only:			
J		Does well recharge adequately when purged?			
	a				
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	our professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	☑		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



			1		
	ct Location:	AP-2			
Perm	nit Number:				
		YGWA-14S			
Perso	on Gauging:				
		2/8/2022			
	Time:	08:39:00			
			Yes	No	N/A
1	Location Ide				
	a	Is the well visible and accessible?	☑		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	\square		
	b	Is the casing free of degradation or deterioration?	\square		
	С	Does the casing have a functioning weep hole?	\square		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	\square		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	\square		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	\square		
4	Internal Casi				
	a	Does the cap prevent entry of foreign material into the well?	\square		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	\square		
	d	Is the survey point clearly marked on the inner casing?	\square		
	е	Is the depth of the well consistent with the original well log?			
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)			
	Campling: C	roundwater Wells Only:			
5	, ,	•	\square		
	a	Does well recharge adequately when purged?	IV.	Ш	
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		<u> </u>	
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:	YGWA-1I			
Perso	n Gauging:	Jessica Ware			
		2/7/2022			
	Time:	15:46:00			
			Yes	No	N/A
1	Location Ide				
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		V	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	· ·			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?			V
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on vo	ur professional judgement, is the well construction / location:			
	- , , -	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:		•	-
,	corrective a	caons as necaca, by auto.			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:	YGWA-3I			
Perso	n Gauging:	Jessica Ware			
		2/7/2022			
	Time:	15:26:00			
			Yes	No	N/A
1	Location Ide				
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		V	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	\square		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?			
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?			V
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	ur professional judgement, is the well construction / location:			
	,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
	D				
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:	YGWA-3D			
Perso	on Gauging:	Jessica Ware			
		2/7/2022			
	Time:	15:28:00			i
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	\square		
	С	Is the well in a high traffic area and does the well require protection from traffic?		\square	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	\square		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	\square		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	\square		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	\square		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	\square		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	\square		
	С	Is the well properly vented for equilibration of air pressure?	\square		
	d	Is the survey point clearly marked on the inner casing?			
	е	Is the depth of the well consistent with the original well log?			V
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
	С	Does the well require redevelopment (low flow, turbid)?			
6		ur professional judgement, is the well construction / location:			
	- , , -	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?			
7	Corrective a	ctions as needed, by date:	·		_
,	corrective a	enons as necacu, by auto.			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:	YGWA-2I	ļ		
Perso	on Gauging:				
		2/7/2022			
	Time:	15:37:00			
			Yes	No	N/A
1	Location Ide				
	a	Is the well visible and accessible?	\square		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		V	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?			
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?			Ø
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	ur professional judgement, is the well construction / location:			
	-	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
		•			
	Date la 1				
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:	YGWA-1D	ļ		
Perso	on Gauging:				
		2/7/2022			
	Time:	15:43:00			
			Yes	No	N/A
1	Location Ide				
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	☑		
	С	Is the well in a high traffic area and does the well require protection from traffic?			
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?			V
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	ur professional judgement, is the well construction / location:			
	-	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
		•			
	Date la 1				
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'			
	nit Number:		1		
	Well ID:	YGWA-4I			
Perso	n Gauging:	Jessica Ware			
	Date:	2/7/2022			
	Time:	11:16:00	ļ		
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	\square		
	С	Is the well in a high traffic area and does the well require protection from traffic?			
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	\square		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?		V	
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	а	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?		V	
	С	Is the well pad in complete contact with the protective casing?	\square		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by			
	G	erosion, animal burrows, and does not move when stepped on)	☑		
	е	Is the pad surface clean (not covered with sediment or debris)?		<u> </u>	
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	\square		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	\square		
	е	Is the depth of the well consistent with the original well log?			V
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	our professional judgement, is the well construction / location:			
	,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program			
		and 2) comply with the applicable regulatory requirements?			
7	Corrective a	ctions as needed, by date:			
	223.704				
8	Date by whe	en corrective actions are needed:			
	212 37				



		ANAA AD 2 A D J DI			
		AMA AP-3, A, B and B'	-		
Perm	nit Number:	YGWA-5D	-		
Dorse	on Gauging:		1		
reisc		2/7/2022	-		
		11:34:00	1		
			Yes	No	N/A
1	Location Ide	ntification:			-
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		$\overline{\mathbf{V}}$	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	\square		
	b	Is the casing free of degradation or deterioration?	\square		
	С	Does the casing have a functioning weep hole?		V	
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?		V	
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	☑		
4	Internal Cas	ng			
	a	Does the cap prevent entry of foreign material into the well?	\square		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	\square		
	е	Is the depth of the well consistent with the original well log?			Ø
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑		
		and 2) comply with the applicable regulatory requirements?	☑		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



			1		
		AMA AP-3, A, B and B'	-		
Perm	nit Number:		-		
		YGWA-20S	-		
Perso	on Gauging:		-		
		2/7/2022	1		
	ı ime:	11:44:00	Voc	Na	NI/A
1	Location Ide	antification.	Yes	No	N/A
ı					_
	a	Is the well visible and accessible?	☑		
	b	Is the well properly identified with the correct well ID?			
	С	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?			
	С	Does the casing have a functioning weep hole?	\square		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	V		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?			V
	С	Is the well pad in complete contact with the protective casing?	V		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Cas	· ·			
	а	Does the cap prevent entry of foreign material into the well?	$\overline{\mathbf{V}}$		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	$\overline{\mathbf{Q}}$		
	С	Is the well properly vented for equilibration of air pressure?	\square		
	d	Is the survey point clearly marked on the inner casing?	\square		
	e	Is the depth of the well consistent with the original well log?			✓
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑		
5	Sampling: G	roundwater Wells Only:			
	а	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
	С	Does the well require redevelopment (low flow, turbid)?			
6		our professional judgement, is the well construction / location:			
3		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program			
		and 2) comply with the applicable regulatory requirements?	I		
7	Corrective	ctions as needed, by date:			_
1	Corrective a	ctions as necucu, by date.			
8	Date by whe	en corrective actions are needed:			



		1444 4B 2 4 B 4 B			
		AMA AP-3, A, B and B'	1		
Perm	nit Number: Well ID:	VCWA EL	-		
Dorce	on Gauging:		1		
Perso		2/7/2022	1		
		11:32:00	1		
	· · · · · · · · · · · · · · · · · · ·		Yes	No	N/A
1	Location Ide	entification:			,
	a	Is the well visible and accessible?	V		
	b	Is the well properly identified with the correct well ID?		Ø	
	С	Is the well in a high traffic area and does the well require protection from traffic?	v		
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	V		
	С	Does the casing have a functioning weep hole?		\square	
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	а	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?		Ø	
	С	Is the well pad in complete contact with the protective casing?	V		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Cas	ing			
	а	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?			Ø
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'			
	nit Number:				
	Well ID:	YGWA-21I			
Perso	n Gauging:	Jessica Ware			
	Date:	2/7/2022			
	Time:	11:53:00	ļ		
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	\square		
	С	Is the well in a high traffic area and does the well require protection from traffic?			
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	\square		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?		V	
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	а	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?		V	
	С	Is the well pad in complete contact with the protective casing?	\square		
	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)	☑		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	\square		
	С	Is the well properly vented for equilibration of air pressure?			Ø
	d	Is the survey point clearly marked on the inner casing?	\square		
	е	Is the depth of the well consistent with the original well log?			☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	our professional judgement, is the well construction / location:			
	,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	7		
7	Corrective a	ctions as needed, by date:			
•	223.75 4				
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'			
Perm	nit Number:		1		
		YGWA-17S	-		
Perso	n Gauging:		-		
		2/7/2022	-		
	Time:	12:25:00	Voc	Na	NI/A
1	Location Ido	ntification.	Yes	No	N/A
'	Location Ide	Is the well visible and accessible?			
	a				
	b	Is the well properly identified with the correct well ID?	☑		
	C .	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	V		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?			
	b	Is the well pad sloped away from the protective casing?			V
	С	Is the well pad in complete contact with the protective casing?	$\overline{\mathbf{V}}$		
	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)	☑		
	е	Is the pad surface clean (not covered with sediment or debris)?	V		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	V		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	V		
	С	Is the well properly vented for equilibration of air pressure?	V		
	d	Is the survey point clearly marked on the inner casing?	$\overline{\mathbf{V}}$		
	e	Is the depth of the well consistent with the original well log?			Ø
	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)	\square		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on vo	ur professional judgement, is the well construction / location:			
	, , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	$\overline{\mathbf{V}}$		
		and 2) comply with the applicable regulatory requirements?	$\overline{\mathbf{V}}$		
7	Corrective a	ctions as needed, by date:			
•	Jon Collive di	5.05.15 db55d56, by dd.c.			
8	Date by whe	en corrective actions are needed:			



		AMA AP-3, A, B and B'	_		
Perm	nit Number:		-		
		YGWA-18I	-		
Perso	n Gauging:		-		
		2/7/2022	-		
	Time:	12:35:00	Vas	Nia	NI/A
1	l+: - -		Yes	No	N/A
'	Location Ide				
	a	Is the well visible and accessible?	☑		
	b	Is the well properly identified with the correct well ID?	☑		
	C .	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	☑		
	С	Does the casing have a functioning weep hole?	☑		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	\square		
	b	Is the well pad sloped away from the protective casing?			\square
	С	Is the well pad in complete contact with the protective casing?	\square		
	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)	\square		
	е	Is the pad surface clean (not covered with sediment or debris)?	\square		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	\square		
	d	Is the survey point clearly marked on the inner casing?	\square		
	e	Is the depth of the well consistent with the original well log?			Ø
	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)	\square		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on vo	ur professional judgement, is the well construction / location:			
	- ,-	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	\square		
		and 2) comply with the applicable regulatory requirements?	\square		
7	Corrective a	ctions as needed, by date:			
•					
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'	1		
Perm	nit Number:				
		YGWA-18S	-		
Perso	on Gauging:		_		
		2/7/2022	-		
	Time:	12:39:00	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	NI.	N1 / A
1	La sada a tala		Yes	No	N/A
ı	Location Ide			_	_
	a	Is the well visible and accessible?	☑		
	b	Is the well properly identified with the correct well ID?	I		
	C	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	V		
	С	Does the casing have a functioning weep hole?			
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?			☑
	С	Is the well pad in complete contact with the protective casing?	V		
	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)	☑		
	е	Is the pad surface clean (not covered with sediment or debris)?	V		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	\square		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	\square		
	С	Is the well properly vented for equilibration of air pressure?	V		
	d	Is the survey point clearly marked on the inner casing?	$\overline{\mathbf{V}}$		
	е	Is the depth of the well consistent with the original well log?			V
	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)	\square		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	our professional judgement, is the well construction / location:			
	, , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	$\overline{\mathbf{V}}$		
		and 2) comply with the applicable regulatory requirements?	$\overline{\mathbf{V}}$		
7	Corrective a	ctions as needed, by date:			
,					
8	Date by whe	en corrective actions are needed:			



			1		
Proje	ct Location:	AMA R6 CCR Landfill			
Perm	nit Number:				
		YGWA-40	-		
Perso	on Gauging:		1		
		2/7/2022	-		
	Time:	14:00:00	\		
			Yes	No	N/A
1	Location Ide				
	а	Is the well visible and accessible?	☑		
	b	Is the well properly identified with the correct well ID?	☑		
	С	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	V		
	b	Is the casing free of degradation or deterioration?	\square		
	С	Does the casing have a functioning weep hole?			
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	V		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	V		
	b	Is the well pad sloped away from the protective casing?			Ø
	С	Is the well pad in complete contact with the protective casing?	$\overline{\mathbf{V}}$		
-	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)	\square		
	е	Is the pad surface clean (not covered with sediment or debris)?	V		
4	Internal Casi	· · ·			
	a	Does the cap prevent entry of foreign material into the well?	V		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	$\overline{\mathbf{V}}$		
	С	Is the well properly vented for equilibration of air pressure?	$\overline{\mathbf{V}}$		
	d	Is the survey point clearly marked on the inner casing?	\square		
	е	Is the depth of the well consistent with the original well log?			Ø
	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)	V		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	our professional judgement, is the well construction / location:			
	, , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	$\overline{\mathbf{V}}$		
		and 2) comply with the applicable regulatory requirements?	$\overline{\mathbf{V}}$		
7	Corrective a	ctions as needed, by date:			
•					
8	Date by whe	en corrective actions are needed:			



		AMA R6 CCR Landfill	1		
Perm	nit Number:		-		
		YGWA-39	-		
Perso	on Gauging:		_		
		2/7/2022	-		
	Time:	14:05:00	<u> </u>		N 1 / A
			Yes	No	N/A
ı	Location Ide			_	_
	a	Is the well visible and accessible?	☑		
	b	Is the well properly identified with the correct well ID?			
	C	Is the well in a high traffic area and does the well require protection from traffic?			\square
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	V		
	b	Is the casing free of degradation or deterioration?	V		
	С	Does the casing have a functioning weep hole?	V		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?			V
	С	Is the well pad in complete contact with the protective casing?	v		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	v		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	V		
	С	Is the well properly vented for equilibration of air pressure?	v		
	d	Is the survey point clearly marked on the inner casing?	V		
	е	Is the depth of the well consistent with the original well log?			V
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	our professional judgement, is the well construction / location:			
	, , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	V		
7	Corrective a	ctions as needed, by date:			
•					
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	Gypsum Landfill	1		
Pern	nit Number:		_		
	Well ID:		_		
Perso	on Gauging:		-		
		2/7/2022	-		
	l ime:	11:05:00	Voc	No	NI/A
1	Location Ide	entification:	Yes	INO	N/A
1		Is the well visible and accessible?	V		
	a				
	b	Is the well properly identified with the correct well ID?			
	С	Is the well in a high traffic area and does the well require protection from traffic?		\square	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	V		
	С	Does the casing have a functioning weep hole?	V		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	V		
	b	Is the well pad sloped away from the protective casing?	V		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	V		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	V		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	V		
	С	Is the well properly vented for equilibration of air pressure?	V		
	d	Is the survey point clearly marked on the inner casing?	V		
	е	Is the depth of the well consistent with the original well log?	v		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on vo	our professional judgement, is the well construction / location:			
	, , , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	V		
7	Corrective a	ctions as needed, by date:			
•	None				
	. 10110				
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-1			
Perm	nit Number:				
	Well ID:	YGWA-47	ļ		
Perso	on Gauging:				
		2/7/2022			
	Time:	12:32:00			
			Yes	No	N/A
1	Location Ide				
	a	Is the well visible and accessible?	\square		
	b	Is the well properly identified with the correct well ID?	☑		
	С	Is the well in a high traffic area and does the well require protection from traffic?		\square	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)			
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	Ø		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	ur professional judgement, is the well construction / location:			
	,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
Д	Date by whe	en corrective actions are needed:			
	Date by will	in concease denotes are needed.			

AP-2 August/September 2022

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
рН	S.U.	4.00	4.00	4.01	4.01	4.00	4.01
рН	S.U.	7.00	7.00	6.99	6.99	7.00	7.00
рН	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
pН	S.U.	4.00	4.01	4.02	4.01	4.01	4.02
pН	S.U.	7.00	6.99	6.98	6.99	6.99	6.98
pН	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
рН	S.U.	4.00	4.00	4.00	4.00	4.00	4.00
рН	S.U.	7.00	7.00	7.00	7.00	7.00	7.00
рН	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
pН	S.U.	4.00	NA*	4.01	4.01	4.02	4.01
pН	S.U.	7.00	NA*	6.98	6.99	6.98	6.99
pН	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	1
Turbidity	NTU	<0.10	NA*	0.02	0.02	801	

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
pН	S.U.	4.00	4.00	4.00	4.01	4.00	4.00
pН	S.U.	7.00	7.00	7.00	6.99	7.02	7.02
pН	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*
pН	S.U.	4.00	NA*	4.01	4.01	4.01	NA*
pН	S.U.	7.00	NA*	6.99	6.99	6.99	NA*
pН	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*

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 Locat	ion:	AP-2								
Date:				8/29/2022						
Sampler:				Jake Swanson						
Equipment:				water probe						
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments					
YGWC-26S	8/29/2022	11:13:00	27.64	40.18						
YGWC-26I	8/29/2022	11:23:00	27.78	69.81						
YGWC-27I	8/29/2022	11:59:00	30.66	79.99						
YGWC-27S	8/29/2022	11:59:00	30.75	40.52						
YGWC-28I	8/29/2022	12:08:00	30.26	69.93						
YGWC-28S	8/29/2022	12:09:00	29.40	44.95						
YGWC-29I	8/29/2022	12:14:00	30.01	39.59						
PZ-25I	8/29/2022	12:25:00	50.17	84.58						
PZ-25S	8/29/2022	12:31:00	46.48	56.80						
PZ-14I	8/29/2022	12:37:00	21.04	50.86						
YGWA-14S	8/29/2022	12:39:00	20.18	34.96						
YGWA-30I	8/29/2022	12:49:00	43.83	59.48						
PZ-31S	8/29/2022	12:58:00	30.34	34.72						



Client:	Georgia Power										
Project Locat	tion:			AP-2							
Date:			8/29/2022								
Sampler:				Jessica Ware							
Equipment:		water probe									
Well	Date	Time	Time Depth to Well Depth (ft) Comm								
PZ-3S	8/29/2022	10:44:00	35.47	42.39							
YGWA-3I	8/29/2022	11:06:00	53.39	59.05							
YGWA-3D	8/29/2022	11:08:00	30.43	134.18							
PZ-13S	8/29/2022	11:09:00	36.41	43.79							
PZ-13I	8/29/2022	11:24:00	41.19	59.22							
YGWA-1D	8/29/2022	11:25:00	49.37	128.85							
PZ-1S	8/29/2022	11:30:00	32.20	36.34							
YGWA-1I	8/29/2022	11:32:00	37.21	53.60							
YGWA-2I	8/29/2022	11:36:00	44.49								

Well Completion: NA



Updated: 9/1/2022 3:43:25 PM -

04:00

							04:00	
30053438	3	Well ID	YGWC-	261			Date (08/31/2022
AP-2			Weathe	r(°F) 86.9 deg	rees F and Cle	ar. The wind is	blowing N/NW	at 6.9 mph.
Top of Inn	ner Casing	Screen Setting (ft-bmp	59.51	Casing Diameter	r (in) ²			PVC
27.89		Total Depth (ft- bmp)	69.81	Water Column(ft) 41.92			6.81
715.91		Pump Intake (ft	t- 61	Purge M	ethod Low-Flo			Low-Flow
17:40		Well Volumes Purged	0.27	Sample I	D YGWC	-261	Sampled by	Khalil Carson
Start 17:03 Gallons Purged 1.85 Replicate/ Code No.						Color	Clear	
18:14								
Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperatu °C	re Redox (mV)
00:00	200	91.50262	6.33	302.91		7.57	30.1	165.76
05:00	200	27.98	6.09	311.98	2.62	5.82	27.3	32.20
10:00	200	27.98	5.89	313.75	1.74	3.04	26.2	-16.01
15:00	200	27.98	5.81	316.13	1.31	1.60	25.9	4.62
20:00	200	27.98	5.80	316.60	1.04	1.13	25.5	59.61
25:00	200	27.98	5.79	316.57	0.15	1.01	25.7	99.45
30:00	200	27.98	5.78	316.48	0.02	0.92	25.6	120.11
35:00	200	27.98	5.77	316.53	0.02	0.83	25.7	132.82
ıpled			Container			Number	Pre	eservative
			1L Plastic			2	HN	O3
			250 mL Plastic	;	_	1	HN	O3
			500 mL Plastic	;	_	1	No	ne
			250 mL Plastic	;	_	1	No	ne
					_			
-								
ıme Conver	sion							
ches) = galloi	ns per foot				7			
ı								
n:				Well Locked at A	Arrival:			
II:			W	ell Locked at Depa	arture:			
	AP-2 Top of Inr 27.89 715.91 17:40 17:03 18:14 Total Elapsed Minutes 00:00 05:00 10:00 20:00 25:00 30:00 35:00 apled	Top of Inner Casing 27.89 715.91 17:40 17:03 18:14 Total Elapsed Minutes (mL/min) 00:00 200 10:00 200 10:00 200 20:00 200 25:00 200 30:00 200 35:00 200 appled ches) = gallons per foot	Top of Inner Casing Screen Setting (ft-bmp) 27.89 Total Depth (ft-bmp) 715.91 Pump Intake (ft bmp) 17:40 Well Volumes Purged 17:03 Gallons Purged 18:14 Total Elapsed Minutes (ft) 00:00 200 91.50262 05:00 200 27.98 10:00 200 27.98 15:00 200 27.98 20:00 200 27.98 25:00 200 27.98 30:00 200 27.98 35:00 200 27.98 about 15:00 200 27.98	AP-2	AP-2 Weather(*F) 86.9 degreen Setting (ft-bmp) 59.51 Casing Diameter	AP-2 Weather(*F) 86.9 degrees F and Cle Top of Inner Casing Screen Setting (ft-bmp) 59.51 Casing Diameter (in) 2	AP-2	AP-2 Weather("F) 86.9 degrees F and Clear. The wind is blowing NNW and Part

Key Number To Well: NA



Updated: 9/1/2022 3:43:26 PM -

								04:00	
Project Number	30053438	}	Well ID	YGWC-2	271			Date	09/01/2022
Project Location	n AP-2			Weathe	r(°F) 69.3 degr	ees F and Clea	ar. The wind is	blowing unde	fined at 0.0 mph.
Measuring Pt. Description	Top of Inn	ner Casing	Screen Setting (ft-bm)	p) 69.69	Casing Diameter	(in) ²		Well Casing Material	PVC
Static Water Level (ft-bmp)	30.6		Total Depth (ft bmp)	79.99	Water Column(ft) 49.39		Gallons in Well	8.03
MP Elevation	716.19		Pump Intake (ibmp)	ft- 75	Purge Me	ethod Low-Flo		Sample Method	Low-Flow
Sample Time	09:25		Well Volumes Purged	0.15	Sample I	D YGWC-	271	Sampled by	Khalil Carson
Purge Start	08:51		Gallons Purge	ed 1.19	Replicate Code No			Color	Clear
Purge End	09:53								
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperat °C	ture Redox (mV)
08:51:00	00:00	150	30.6	7.37	336.68		8.24	23.1	148.48
08:56:00	05:00	150	30.9	6.34	330.56	0.02	3.38	20.9	42.46
09:01:00	10:00	150	30.93	6.22	334.66	0.47	1.34	20.1	0.43
09:06:00	15:00	150	30.95	6.18	339.03	0.02	0.84	20.0	-9.52
09:11:00	20:00	150	30.95	6.16	341.89	0.40	0.64	20.0	-15.73
09:16:00	25:00	150	30.95	6.15	339.59	0.14	0.55	19.9	-20.22
09:21:00	30:00	150	30.95	6.13	337.18	0.02	0.49	19.9	-25.29
Constituent Sar	npled			Container			Number	P	reservative
RAD Chem				1L Plastic			2	Н	INO3
Metals				250 mL Plastic	;	-	1		INO3
CI,F,SO4				250 mL Plastic	;	-	1		lone
TDS				500 mL Plastic	<u> </u>	-	1		lone

Well Casing Volume Conversion

Comments:

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

veil information		
Well Location:	Well Locked at Arrival:	
Condition of Well:	Well Locked at Departure:	
Well Completion: NA	Key Number To Well: NA	
		-



Updated: 9/2/2022 9:55:13 AM - 04:00

Project Number	ct Number 30053438 Well ID				291		Date	09/01/2022	
Project Location	AP-2			Weathe	r(°F) 86.5 degre	es F and Part	ly Cloudy. The	e wind is blowing	ng SE at 3.4 mph.
Measuring Pt. Description	Top of Inn	ner Casing	Screen Setting (ft-bmp	29.29	Casing Diameter ((in) ²		Well Casing Material	PVC
Static Water Level (ft-bmp)	30.13		Total Depth (ft bmp)	39.59	Water Column(ft	9.46		Gallons in Well	1.54
MP Elevation	on 717.39 Pump Inta bmp)			t- 35	Purge Met	hod Low-Flo	W	Sample Method	Low-Flow
Sample Time	mple Time 14:40 Well Vo			0.51	Sample ID	YGWC-	291	Sampled by	Khalil Carson
Purge Start	14:16		Gallons Purge	d 0.79	Replicate/ Code No.	Ap-2-fb-	-2	Color	Clear
Purge End	15:16								
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (cm)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperat °C	ture Redox (mV)
14:16:00	00:00	150	3013	6.01	235.14		2.70	22.5	191.91
14:21:00	05:00	150	30.78	6.02	235.46	4.79	1.33	22.4	183.80
14:26:00	10:00	150	30.8	5.95	238.87	3.62	1.00	23.7	186.26
14:31:00	15:00	150	30.82	5.97	240.30	1.99	0.91	24.4	186.10
14:36:00	20:00	150	30.82	6.05	240.72	0.86	0.86	24.5	185.73
Constituent San	nlad			Container			Number	ь	reservative
RAD Chem	ipieu			1L Plastic			2		NO3
Metals				250 mL Plastic	<u> </u>		1		NO3
rds			<u> </u>	500 mL Plastic			1		lone
CL,F,SO4			<u> </u>	250 mL Plastic			1		one
							·		
Comments:	-								
Well Casing Vol	ume Conver	sion							
Well diameter (in	ches) = galloi	ns per foot	1 = 0.04 1.5 = 0 1.25 = 0.06 2 =		3.5 = 0.50 6 = 1.47 4 = 0.65				
Well Information	1								
Well Locatio	n:				Well Locked at Ar	rival:			
Condition of We	ell:			W	Well Locked at Departure:				
Well Completion: NA					Key Number To	Well: NA			_



Updated: 9/2/2022 9:55:15 AM -

04:00

								04.00		
Project Number	r 30053438	3	Well ID	YGWC-	27\$			Date	09/01/	2022
Project Locatio	n AP-2			Weathe	r(°F) Sunny 80	ı				
Measuring Pt. Description	Top of Inr	ner Casing	Screen Setting (ft-bmp	30.22	Casing Diameter	· (in) 2		Well Casing PVC		
Static Water Level (ft-bmp)	30.76		Total Depth (ft- bmp)	40.52	Water Column(9.76		Gallons in Well	1.59	
MP Elevation	716.52		Pump Intake (f bmp)	t- 35	Purge Me	ethod Low-Flo		Sample Method	Low-F	low
Sample Time	Purged					27S	Sampled by	Khalil	Carson	
Purge Start	09:57		Gallons Purge	d 1.18	Replicate Code No			Color	Clear	
Purge End	11:00									
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperat °C	ture	Redox (mV)
09:57:00	00:00	150	100.9186	5.88	265.86		3.95	21.5		122.27
10:02:00	04:54	150	30.81	5.86	257.61	4.44	2.88	22.8		126.54
10:07:00	09:54	150	30.84	5.90	249.97	3.99	2.00	23.3		129.01
10:12:00	14:54	150	30.84	6.04	245.81	3.64	1.12	22.4		129.14
10:17:00	19:54	150	30.84	6.07	247.04	2.33	0.77	22.3		134.07
10:22:00	24:54	150	30.84	6.08	247.62	1.48	0.61	22.4		136.93
10:27:00	29:54	150	30.84	6.13	248.71	0.89	0.59	22.6		135.78
Constituent Sar	mpled			Container			Number	P	reserva	ntive
RAD Chem				1L Plastic			2	Н	INO3	
TDS				500 mL Plastic	;	_	1		lone	
Metals				250 mL Plastic	;	_	1		INO3	
CL,F,SO4			<u> </u>	250 mL Plastic	;	_	1	N	lone	
Comments:	-									
Well Casing Vo	lume Conver	sion								
Well diameter (in	nches) = gallo	ns per foot	1 = 0.04 1.5 = 0 1.25 = 0.06 2 =		3.5 = 0.50 6 = 1.47 4 = 0.65	•				
Well Informatio	n									
Well Location	on:				Well Locked at A	rrival:				
Condition of W	ell:			W	ell Locked at Depa	arture:			_	
Well Completion	on: NA				Key Number To	Well: NA			-	



Updated: 9/9/2022 12:08:12 PM

-04:00

30053438 Well ID YGWC-28I Date 09/01/2022 **Project Number Project Location** AP-2 Weather(°F) 80.4 degrees F and Clear. The wind is blowing E/NE at 3.4 mph. **Well Casing** Measuring Pt. Screen Casing PVC Top of Inner Casing 59.63 Description Material Setting (ft-bmp) Diameter (in) Total Depth (ft-**Static Water** Gallons in Water 69.93 30.25 39.68 6.45 Level (ft-bmp) bmp) Column(ft) Well Pump Intake (ft-Sample Purge Method Low-Flow **MP Elevation** 717.93 64 Low-Flow bmp) Method **Well Volumes** Sample Time 11:40 0.12 Sample ID YGWC-28I Sampled by Khalil Carson Purged Replicate/ **Purge Start Gallons Purged** 0.79 Ap-2-dup-01 Clear 11:15 Color Code No.

Purge End 12:59

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)
11:15:00	00:00	150	30.26	6.53	366.62		5.03	24.4	126.17
11:20:00	05:00	150	30.85	6.49	334.82	0.02	2.27	23.5	102.81
11:25:00	10:00	150	30.92	6.43	323.91	0.02	1.43	23.5	111.46
11:30:00	15:00	150	30.92	6.43	321.48	0.42	1.32	23.7	117.89
11:35:00	20:00	150	30.92	6.41	320.14	0.37	1.27	24.0	124.66

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	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							
Well Location:	Well Locked at Arrival:						
Condition of Well:	Well Locked at Departure:						
Well Completion:	NA Key Number To Well: NA						



Updated : 9/9/2022 12:14:12 PM -04:00

Project Number	30053438	Well ID	YGWC-28S			Date	09/01/2022
Project Location	AP-2		Weather(°F)	72.5 degrees F	and Clear. The wind i	s blowing SE at	: 10.3 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	34.65	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	29.47	Total Depth (ft- bmp)	44.95	Water Column(ft)	15.48	Gallons in Well	2.52
MP Elevation	717.95	Pump Intake (ft- bmp)	40	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	17:55	Well Volumes Purged	1.34	Sample ID	YGWC-28S	Sampled by	Khalil Carson
Purge Start	16:19	Gallons Purged	3.37	Replicate/ Code No.	Ap-2-Eb-02-	Color	Clear

Purge End 18:36

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)
16:19:00	00:00	150	96.68635	6.41	448.14		2.71	26.2	-25.13
16:24:00	05:00	150	29.55	6.51	462.04	38.30	1.47	27.5	-46.65
16:29:00	10:00	150	29.55	6.51	465.72	30.30	1.32	27.6	-48.70
16:34:00	15:00	150	29.55	6.56	475.00	19.90	1.09	27.4	-53.61
16:39:00	20:00	150	29.55	6.56	476.64	17.70	0.95	26.8	-56.94
16:44:00	25:00	150	29.55	6.58	476.15	14.20	0.88	26.7	-58.25
16:49:00	30:00	150	29.55	6.60	476.73	11.20	0.87	26.6	-59.31
16:54:00	35:00	150	29.55	6.62	476.82	11.50	0.84	26.5	-59.77
16:59:00	40:00	150	29.55	6.59	477.79	9.68	0.81	26.5	-59.07
17:04:00	45:00	150	29.55	6.61	477.26	11.60	0.80	26.1	-60.19
17:09:00	50:00	150	29.55	6.62	477.25	11.70	0.81	26.0	-61.01
17:14:00	55:00	150	29.55	6.62	477.26	11.50	0.81	26.1	-61.44
17:19:00	00:00	150	29.55	6.62	476.91	9.24	0.79	26.0	-61.36
17:24:00	05:00	150	29.55	6.58	473.81	8.25	0.79	26.1	-59.90
17:29:00	10:00	150	29.55	6.59	476.44	6.27	0.80	25.9	-60.45
17:34:00	15:00	150	29.55	6.60	476.52	4.92	0.80	25.8	-61.37
17:39:00	20:00	150	29.55	6.60	477.92	4.83	0.78	25.9	-62.17
17:44:00	25:00	150	29.55	6.59	477.81	4.11	0.78	25.8	-62.30

Constituent Sampled	Container	Number	Preservative	
RAD Chem	1L Plastic	2	HNO3	
Metals	250 mL Plastic	1	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

 Well Location:
 Well Locked at Arrival:

 Condition of Well:
 Well Locked at Departure:

 Well Completion:
 NA

 Key Number To Well:
 NA



Updated: 9/9/2022 12:14:13 PM

-04:00

30053438 Well ID YGWC-26S Date 08/31/2022 **Project Number** Project Location AP-2 Weather(°F) 70.0 degrees F and Drizzle. The wind is blowing E at 8.1 mph. **Well Casing** Measuring Pt. Screen Casing PVC Top of Inner Casing 29.88 Description Material Setting (ft-bmp) Diameter (in) Total Depth (ft-**Static Water** Gallons in Water 40.18 2.04 27.65 12.53 Level (ft-bmp) bmp) Column(ft) Well Pump Intake (ft-Sample 37 Purge Method Low-Flow **MP Elevation** 716.28 Low-Flow bmp) Method **Well Volumes** Sample Time 16:15 0.55 Sample ID YGWC-26S Sampled by Khalil Carson Purged Ap-2-FB-1 1645 ap-Replicate/ **Purge Start Gallons Purged** Color Clear 15:43 1.12 Code No. 2-eb-01

Purge End 16:41

. a.go =a	10.11								
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)
15:43:00	00:00	160	90.71523	5.49	284.55		7.89	29.4	193.88
15:48:00	05:00	160	28.23	5.51	293.28	0.02	2.68	24.9	183.24
15:50:00	07:16	160	28.23	5.59	295.54	0.76	1.62	24.6	192.05
15:52:00	08:41	160	28.23	5.61	294.33	0.33	1.38	23.9	186.47
15:57:00	13:41	160	28.41	5.62	295.24	0.02	1.04	23.9	187.75
16:00:00	16:34	160	28.45	5.57	295.14		0.93	24.5	216.11
16:05:00	21:34	160	28.47	5.61	292.98		0.94	23.8	198.90
16:10:00	26:34	160	28.47	5.61	293.33		0.90	23.8	198.61

Constituent Sampled	Container	Number	Preservative	
TDS	500 mL Plastic	1	None	
RAD Chem	1L Plastic	2	HNO3	
Metals	250 mL Plastic	1	HNO3	
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							
Well Location:	Well Locked at Arrival:						
Condition of Well:	Well Locked at Departure:						
Well Completion: N	A Key Number To Well: NA						



			1		
Proje	ct Location:	AP-2			
Perm	nit Number:				
		YGWC-26S	-		
Perso		Jake Swanson	-		
		8/29/2022	-		
	Time:	11:13:00	V	NI-	N1 / A
1	Location Ide		Yes	No	N/A
'				_	_
	a	Is the well visible and accessible?			
	b	Is the well properly identified with the correct well ID?	☑		
	С	Is the well in a high traffic area and does the well require protection from traffic?		V	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	\square		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	\square		
	b	Is the well pad sloped away from the protective casing?	\square		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	\square		
4	Internal Casi	· ·			
	а	Does the cap prevent entry of foreign material into the well?	$\overline{\mathbf{Q}}$		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	$\overline{\mathbf{A}}$		
	С	Is the well properly vented for equilibration of air pressure?	\square		
	d	Is the survey point clearly marked on the inner casing?	\square		
	e	Is the depth of the well consistent with the original well log?			
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand			
		due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	а	Does well recharge adequately when purged?	☑		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	our professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
	Cut vegetati	on			
0	Date by who	en corrective actions are needed:			
O	Date by WITE	TO COTTECTIVE ACTIONS AT ETTECHED.			



Proje	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:	YGWC-26I			
Perso	on Gauging:	Jake Swanson			
		8/29/2022			
	Time:	11:23:00			
			Yes	No	N/A
1	Location Ide	ntification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	\square		
	С	Is the well in a high traffic area and does the well require protection from traffic?		$\overline{\checkmark}$	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	$\overline{\mathbf{Q}}$		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?			
	b	Is the well pad sloped away from the protective casing?			
	С	Is the well pad in complete contact with the protective casing?			
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by		_	_
		erosion, animal burrows, and does not move when stepped on)	☑		
	е	Is the pad surface clean (not covered with sediment or debris)?	☑		
4	Internal Casi	ng			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	☑		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	$\overline{\mathbf{A}}$		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\checkmark}$	
6	Based on yo	ur professional judgement, is the well construction / location:			
	,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	\square		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
•	Cut vegetati	•			
	Jac regetati				
8	Date by whe	n corrective actions are needed:			



			1		
	ct Location:	AP-2	-		
Perm	nit Number:		-		
		YGWC-27I	-		
Perso		Jake Swanson	-		
		8/29/2022	-		
	ı ime:	11:59:00	Yes	No	NI/A
1	Location Ide	ntification:	res	INO	N/A
'		Is the well visible and accessible?	Ø		
	a	Is the well properly identified with the correct well ID?			
	b	Is the well in a high traffic area and does the well require protection from traffic?			
	С	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious			
	d	drainage flow path)	Ø		
2	Protective C				
	а	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
2	С	Does the casing have a functioning weep hole?	☑		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑		
3	Surface Pad				
	а	Is the well pad in good condition (not cracked or broken)?	☑		
	b	Is the well pad sloped away from the protective casing?	☑		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	а	Does the cap prevent entry of foreign material into the well?	☑		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	V		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	Ø		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		Ø	
6	Based on vo	ur professional judgement, is the well construction / location:			
	, , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
•		y			
8	Date by whe	en corrective actions are needed:			



Duoio	ct Location:	A D_ 2			
	it Number:	AF-2	1		
reiii		YGWC-27S	-		
Perso		Jake Swanson	1		
		8/29/2022	-		
		11:59:00	1		
			Yes	No	N/A
1	Location Ide	ntification:			
	a	Is the well visible and accessible?	\square		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		$\overline{\mathbf{V}}$	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	\square		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	\square		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	\square		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ng			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	Ø		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	\square		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		V	
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑		
		and 2) comply with the applicable regulatory requirements?	☑		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



Project Location:		AP-2			
Perm	nit Number:				
	Well ID:	YGWC-28I			
Perso	on Gauging:	Jake Swanson			
		8/29/2022			
Time:		12:08:00			
			Yes	No	N/A
1	Location Ide				
	а	Is the well visible and accessible?	☑		
	b	Is the well properly identified with the correct well ID?	☑		
	С	Is the well in a high traffic area and does the well require protection from traffic?		$\overline{\checkmark}$	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi				
	а	Does the cap prevent entry of foreign material into the well?	\square		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	\square		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	\square		
	e	Is the depth of the well consistent with the original well log?	\square		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\checkmark}$	
6		our professional judgement, is the well construction / location:			
	- , , -	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	\square		
		and 2) comply with the applicable regulatory requirements?			
7	Corrective a	ctions as needed, by date:	· ·		-
'	corrective a	each as needed, by dute.			
8	Date by whe	en corrective actions are needed:			



Project Location:		AP-2			
Permit Number:]		
	Well ID:	YGWC-28S			
Perso	on Gauging:	Jake Swanson			
		8/29/2022			
	Time:	12:09:00			i
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		\square	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	\square		
	С	Does the casing have a functioning weep hole?	\square		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	\square		
	b	Is the well pad sloped away from the protective casing?	$\overline{\mathbf{A}}$		
	С	Is the well pad in complete contact with the protective casing?	\square		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	\square		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	\square		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	\square		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	\square		
	е	Is the depth of the well consistent with the original well log?	\square		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	$\overline{\mathbf{A}}$		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?			
6		our professional judgement, is the well construction / location:			
	2232 311 yo	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	$\overline{\mathbf{Z}}$		
		and 2) comply with the applicable regulatory requirements?			
7	Corrective	ctions as needed, by date:	_		_
,	Corrective a	ctions as necaea, by date.			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Permit Number:					
Well ID:		YGWC-29I			
Perso	on Gauging:	Jake Swanson			
		8/29/2022			
	Time:	12:14:00			
			Yes	No	N/A
1	Location Ide				
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		\square	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	\square		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	\square		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	\square		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	\square		
4	Internal Casi	· ·			
	a	Does the cap prevent entry of foreign material into the well?	\square		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	\square		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	\square		
	е	Is the depth of the well consistent with the original well log?	\square		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	7		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\checkmark}$	
6		ur professional judgement, is the well construction / location:			
	- , , -	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?			
7	Corrective a	ctions as needed, by date:	·		_
,	corrective a	caons as necaca, by dute.			
8	Date by whe	en corrective actions are needed:			



Project Location:		AP-2			
Permit Number:			1		
Well ID:		PZ-25I			
Perso	on Gauging:	Jake Swanson]		
	Date:	8/29/2022			
	Time:	12:25:00			
			Yes	No	N/A
1	Location Ide	ntification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	\square		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	\square		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			Ø
	С	Does the well require redevelopment (low flow, turbid)?		\square	
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
		•			
8	Date by whe	en corrective actions are needed:			



Droie	ct Location:	AP-2			
Permit Number:			1		
	Well ID:	PZ-25S	1		
Perso		Jake Swanson	1		
		8/29/2022	1		
	Time:	12:31:00			
			Yes	No	N/A
1	Location Ide	Location Identification:			
	а	Is the well visible and accessible?	V		
	b	Is the well properly identified with the correct well ID?	V		
	С	Is the well in a high traffic area and does the well require protection from traffic?		V	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	а	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	V		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	а	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	V		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Cas	ing			
	а	Does the cap prevent entry of foreign material into the well?	V		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	V		
	d	Is the survey point clearly marked on the inner casing?	V		
	е	Is the depth of the well consistent with the original well log?	V		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			Ø
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



			1		
Project Location:			-		
Permit Number:			-		
Well ID:			-		
Perso		Jake Swanson 8/29/2022	-		
		12:37:00	-		
	i iiiie:	12.57.00	Yes	No	N/A
1	Location Ide	entification:	103	140	14/7
	a	Is the well visible and accessible?	V		
	b	Is the well properly identified with the correct well ID?			
		Is the well in a high traffic area and does the well require protection from traffic?		<u></u>	_
	c d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious			Ы
	u	drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	☑		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?			
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	\square		
	С	Is the well pad in complete contact with the protective casing?	V		
	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)	V		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	а	Does the cap prevent entry of foreign material into the well?	v		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	v		
	d	Is the survey point clearly marked on the inner casing?	V		
	е	Is the depth of the well consistent with the original well log?	Ø		
	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)	Ø		
5	Sampling: G	froundwater Wells Only:			
	a	Does well recharge adequately when purged?	V		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			Ø
	С	Does the well require redevelopment (low flow, turbid)?			
6		our professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	✓		
7	Corrective a	ctions as needed, by date:	· ·		_
,	Cut vegetati	•			
	cut vegetati	OII			
8	Date by whe	en corrective actions are needed:			
	-				



Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-31S			
Perso	on Gauging:	Jake Swanson			
		8/29/2022			
	Time:	12:58:00			1
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		\square	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	\square		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	\square		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	e	Is the pad surface clean (not covered with sediment or debris)?	\square		
4	Internal Casi	· ·			
	а	Does the cap prevent entry of foreign material into the well?	\square		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	\square		
	С	Is the well properly vented for equilibration of air pressure?	\square		
	d	Is the survey point clearly marked on the inner casing?	_ ☑	_	
		Is the depth of the well consistent with the original well log?	☑		
	e				
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	а	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			V
	С	Does the well require redevelopment (low flow, turbid)?		\square	
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?			
7	Corrective a	ctions as needed, by date:			
	Cut vegetati	on			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Permit Number:					
Well ID:		PZ-13S			
Perso	on Gauging:	Jessica Ware			
		8/29/2022			
	Time:	11:09:00			1
			Yes	No	N/A
1	1 Location Identification:				
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		\square	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	а	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	i e e e e e e e e e e e e e e e e e e e			
	а	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	\square		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	e	Is the depth of the well consistent with the original well log?	Ø		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\checkmark}$	
6	Based on vo	ur professional judgement, is the well construction / location:			
_	- , , -	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			-
,	Corrective at	caons as necaca, by dute.			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Permit Number:					
Well ID:		PZ-13I			
Perso	on Gauging:	Jessica Ware			
		8/29/2022			
	Time:	11:24:00			
			Yes	No	N/A
1	Location Ide				
	а	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		$\overline{\checkmark}$	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	₫		
2	Protective C	asing:			
	а	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	i e e e e e e e e e e e e e e e e e e e			
	а	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	\square		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	e	Is the depth of the well consistent with the original well log?	Ø		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\checkmark}$	
6		ur professional judgement, is the well construction / location:			
_	- , , -	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	<u> </u>		
7	Corrective a	ctions as needed, by date:			-
,	Corrective a	enons as necees, by suite.			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Permit Number:			1		
Well ID:		PZ-1S	1		
Perso	on Gauging:	Jessica Ware			
	Date:	8/29/2022]		
	Time:	11:30:00			
			Yes	No	N/A
1	Location Ide	entification:			
	а	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	\square		
	С	Is the well in a high traffic area and does the well require protection from traffic?		$\overline{\mathbf{V}}$	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?			
	С	Does the casing have a functioning weep hole?			
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	\square		
	b	Is the well pad sloped away from the protective casing?	\square		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	V		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	\square		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	V		
	С	Is the well properly vented for equilibration of air pressure?	\square		
	d	Is the survey point clearly marked on the inner casing?	\square		
	е	Is the depth of the well consistent with the original well log?	\square		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	а	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-3S			
Perso	on Gauging:	Jessica Ware			
	Date:	8/29/2022			
	Time:	10:44:00			
			Yes	No	N/A
1	Location Ide	entification:			
	а	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	\square		
	С	Is the well in a high traffic area and does the well require protection from traffic?		\square	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	\square		
	b	Is the casing free of degradation or deterioration?	\square		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	а	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	а	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	Ø		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	а	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		V	
6	Based on yo	our professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			

Upgradient Wells



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. **Well Casing** Measuring Pt. Screen Casing PVC Top of Inner Casing 38.51 Description Material Setting (ft-bmp) Diameter (in) Total Depth (ft-**Static Water** Gallons in Water 4.04 48.81 23.95 24.86 Level (ft-bmp) bmp) Column(ft) Well Pump Intake (ft-Sample 45 Purge Method Low-Flow **MP Elevation** 784.21 Low-Flow bmp) Method **Well Volumes** Sample Time 15:37 0.39 Sample ID YGWA-4I Sampled by Jessica Ware Purged Replicate/ **Purge Start Gallons Purged** 1.59 Clear 14:54 Color Code No. **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
CI, 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

Well Information		
Well Location:	Well Locked at Arrival:	
Condition of Well:	Well Locked at Departure:	
Well Completion: NA	Key Number To Well:	NA



Updated: 8/30/2022 11:20:20 AM -04:00

								AM -04:00	
Project Number	30053438		Well ID	YGWA-	51			Date	08/30/2022
Project Location	n AMA AP-3	B, A, B and B'		Weathe	r(°F) 72.9 deg	rees F and Fog	/Mist. The wind	l is blowing un	defined at 0.0 mph.
Measuring Pt. Description	Top of Inn	er Casing	Screen Setting (ft-bmp) 48.64	Casing Diamete	r (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 M	ethod Low-Flo		Sample Method	Low-Flow
Sample Time	10:52		Well Volumes Purged	0.26	Sample	ID YGWA-	51	Sampled by	Mark Chest
Purge Start	10:19		Gallons Purgeo	1 1.60	Replicat Code No		ı	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)	Temperat °C	ure 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 Sar	mpled			Container			Number	P	reservative
RAD Chem				1L Plastic			2	Н	NO3
TDS				1L Plastic		_	1		one
Metals				250 mL Plastic	;	_	1	– Н	NO3
CI, F, SO4				250 mL Plastic	;	_	1	N	one
Comments:	None					_			
Well Casing Vol	ume Convers	sion							
Well diameter (in	ches) = gallor	ns per foot	1 = 0.04 1.5 = 0 1.25 = 0.06 2 =		3.5 = 0.50 6 = 1.4 4 = 0.65	7			
Well Information	n								
Well Location	on:				Well Locked at	Arrival:			
Condition of We	ell:			W	ell Locked at Dep	arture:			_
Well Completion	on: NA				Key Number To	Well: NA			_

Well Completion: NA



Updated : 8/30/2022 3:01:48 PM -04:00

								-04:00		
Project Numbe	r 30053438	30053438 Well ID YGWA-5D						Date	08/30/2022	
Project Location	on AMA AP-	3, A, B and B'		Weathe	r(°F) 74.5 degre	es F and Clou	udy. The wind	is blowing undefined at 0.0 mph.		
Measuring Pt. Description	Top of Inr	ner Casing	Screen Setting (ft-bmp	78.83	Casing Diameter (Well Casing Material	PVC	
Static Water Level (ft-bmp)	21.96		Total Depth (ft- bmp) 129.13		Water Column(ft	Water 107.17 Column(ft)		Gallons in Well	17.41	
MP Elevation	784.53		Pump Intake (ft bmp)	t - 124	Purge Met	hod Low-Flo	W	Sample Method	Low-Flow	
Sample Time	12:05		Well Volumes Purged	0.12	Sample ID	YGWA-	5D	Sampled by	Mark Chest	
Purge Start	11:25		Gallons Purgeo	2.14	Replicate/ Code No.			Color	Clear	
Purge End	12:00									
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperat °C	eure 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 Sa	mpled			Container			Number	P	reservative	
RAD Chem	-			1L Plastic			2	Н	NO3	
ΓDS				500 mL Plastic			1		one	
Metals				250 mL Plastic			1		NO3	
Cl, F, SO4				250 mL Plastic			1		one	
CI, F, SO4 Comments:	None			250 mL Plastic			1	N	lone	
Well Casing Vo	lume Conver	sion								
Well diameter (in			1 = 0.04 1.5 = 0 1.25 = 0.06 2 =		3.5 = 0.50 6 = 1.47 = 0.65					
Well Information	on									
Well Locati	on:				Well Locked at Arr	rival:				
Condition of W					ell Locked at Depart				_	

Key Number To Well: NA



Updated : 9/1/2022 10:02:42 PM -04:00

Project Number	30053438	3	Well ID	YGWA-	17S			Date	08/30/202	2
Project Location	AMA AP-	3, A, B and B'		Weathe	r(°F) 32 °C, O\	vercast, winds	at mph.			
Measuring Pt. Description	Top of Inr	ner Casing	Screen Setting (ft-bm)	29.65	Casing Diameter	r (in) ²		Well Casing Material	PVC	
Static Water Level (ft-bmp)	13.33		Total Depth (ft bmp)	39.85	Water Column(ft) 26.52		Gallons in Well	4.31	
MP Elevation	783.05		Pump Intake (i bmp)	ft- 35	Purge Mo	ethod Low-Flo		Sample Method	Low-Flow	
Sample Time	15:40		Well Volumes Purged	0.31	Sample I	D YGWA-	178	Sampled by	Jessica W	are
Purge Start	15:11		Gallons Purge	d 1.32	Replicate Code No			Color	Clear	
Purge End	16:01									
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperat °C	ure	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 Sam	pled			Container			Number	Р	reservative	
Metals				250mL HDPE	Plastic		1	Н	NO3	
Cl, F, SO4				250 mL Plastic	;	_	1	N	one	
TDS				500 mL Plastic	;	_	1	N	one	
RAD Chem				1L Plastic		-	2	 H	NO3	
Comments:	Commission									
••••••	Sampled									
Well Casing Volu		sion								
Well Casing Volu	ıme Conver		1 = 0.04 1.5 = 0 1.25 = 0.06 2 =		3.5 = 0.50 6 = 1.47 4 = 0.65	,				
Well Casing Volu	ume Conver					,				
Well Casing Volu	ume Conver									
Well Casing Volu Well diameter (ind	ume Conver			0.16 3 = 0.37 4	1 = 0.65	ırrival:			-	

Well Information

Well Location:

Well Completion: NA

Condition of Well:



Updated: 9/1/2022 10:02:47 PM

Measuring Pt. Description Top of Inner Casing Setting (ft-bmp) Setting (ft-bmp) Screen Setting (ft-bmp) 29.97 Casing Diameter (i Static Water Level (ft-bmp) 21.48 Total Depth (ft- bmp) Sump Intake (ft-	19.40	at mph. V N C V V S N 18S S	Well Casing Material Gallons in Well Sample Method Sampled by Color Temperat °C 22.5 19.9	PVC 3 Low-Flow Jessica Ware Clear Redox (mV) 152.66
	n) 2 18.49 nod Low-Flo YGWA- Turbidity (NTU) 0.81	Dissolved Oxygen (mg/L) 8.20	Material Gallons in Well Sample Method Gampled by Color Temperat °C 22.5	3 Low-Flow Jessica Ware Clear Redox (mV) 152.66
Description 18.49 nod Low-Flo YGWA- Turbidity (NTU) 0.81	Dissolved Oxygen (mg/L) 8.20	Material Gallons in Well Sample Method Gampled by Color Temperat °C 22.5	3 Low-Flow Jessica Ware Clear Redox (mV) 152.66	
Depth to Water (in) Depth to Units) Depth to Units Depth to Units	YGWA- Turbidity (NTU) 0.81	Dissolved Oxygen (mg/L) 8.20	Well Sample Method Sampled by Color Temperat °C 22.5	Low-Flow Jessica Ware Clear Redox (mV) 152.66
Sample Time 10:10 Well Volumes 0.40 Sample ID	YGWA- Turbidity (NTU) 0.81	Dissolved Oxygen (mg/L) 8.20	Method Sampled by Color Temperat °C 22.5	Jessica Ware Clear Redox (mV) 152.66
Purge Start 09:37 Gallons Purged 1.19 Replicate/Code No. Purge End 10:39 Time Elapsed Minutes (mL/min) Depth to Water (in) Specific Conductivity (µS/cm) 09:37:00 00:00 150 21.92 6.54 65.89 09:42:00 05:00 150 21.92 5.35 51.04 09:47:00 10:00 150 21.9 5.27 50.58 09:52:00 15:00 150 21.93 5.22 49.98 09:57:00 20:00 150 21.98 5.18 49.93	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperat °C 22.5	Clear Redox (mV) 152.66
Purge End 10:39 Time Total Elapsed Minutes Rate (mL/min) Depth to Water (in) pH (standard units) Specific Conductivity (μS/cm) 09:37:00 00:00 150 21.92 6.54 65.89 09:42:00 05:00 150 5.35 51.04 09:47:00 10:00 150 21.9 5.27 50.58 09:52:00 15:00 150 21.93 5.22 49.98 09:57:00 20:00 150 21.98 5.18 49.93	(NTU) 0.81	Dissolved Oxygen (mg/L) 8.20	Temperat °C	eure Redox (mV)
Time Total Elapsed Minutes Rate (mL/min) Depth to Water (in) pH (standard units) Specific Conductivity (μS/cm) 09:37:00 00:00 150 21.92 6.54 65.89 09:42:00 05:00 150 5.35 51.04 09:47:00 10:00 150 21.9 5.27 50.58 09:52:00 15:00 150 21.93 5.22 49.98 09:57:00 20:00 150 21.98 5.18 49.93	(NTU) 0.81	Oxygen (mg/L) 8.20	°C 22.5	(mV)
Time Elapsed Minutes Rate (mL/min) Water (in) (standard units) Conductivity (μS/cm) 09:37:00 00:00 150 21.92 6.54 65.89 09:42:00 05:00 150 5.35 51.04 09:47:00 10:00 150 21.9 5.27 50.58 09:52:00 15:00 150 21.93 5.22 49.98 09:57:00 20:00 150 21.98 5.18 49.93	(NTU) 0.81	Oxygen (mg/L) 8.20	°C 22.5	(mV)
09:42:00 05:00 150 5.35 51.04 09:47:00 10:00 150 21.9 5.27 50.58 09:52:00 15:00 150 21.93 5.22 49.98 09:57:00 20:00 150 21.98 5.18 49.93			+	
09:47:00 10:00 150 21.9 5.27 50.58 09:52:00 15:00 150 21.93 5.22 49.98 09:57:00 20:00 150 21.98 5.18 49.93	0.77	2.93	19.9	196.80
09:52:00 15:00 150 21.93 5.22 49.98 09:57:00 20:00 150 21.98 5.18 49.93	0.77			
09:57:00 20:00 150 21.98 5.18 49.93	0.77	2.35	19.7	205.05
	0.24	2.38	19.1	210.39
10:02:00 25:00 150 21.9 5.19 49.89	0.29	1.98	19.0	215.27
	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	P	reservative
RAD Chem 1L Plastic		2	н	NO3
TDS 500 mL Plastic		1	N	one
CI, F, SO4 250 mL Plastic		1	N	lone
Metals 250mL HDPE Plastic		1	- Н	NO3
Comments: Sampled				
Well Casing Volume Conversion				

Well Locked at Arrival:

Key Number To Well: NA

Well Locked at Departure:



Updated: 9/1/2022 10:02:38 PM

								-04:00)/1/2022 10:02:38 F
Project Number	30053438	3	Well ID	YGWA-	18I			Date	08/30/2022
Project Location	AMA AP-	3, A, B and B'		Weathe	er(°F) 76 °F, Ove	rcast, winds	at mph.		
Measuring Pt. Description	Top of Inr	ner Casing	Screen Setting (ft-bmp	69.67	Casing Diameter ((in) ²		Well Casing Material	PVC
Static Water Level (ft-bmp)	24.46		Total Depth (ft- bmp)	79.97	Water Column(ft) 55.51		Gallons in Well	9.02
MP Elevation	790.57		Pump Intake (ft bmp)	75	Purge Met	hod Low-Flo	ow .	Sample Method	Low-Flow
Sample Time	13:35		Well Volumes Purged	0.18	Sample ID	YGWA-	181	Sampled by	Jessica Ware
Purge Start	10:50		Gallons Purgeo	i 1.59	Replicate/ Code No.			Color	Clear
Purge End	14:04								
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (in)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperat °C	rure Redox (mV)
10:50:00	00:00	150	24.46	6.14	106.03		8.41	22.5	152.49
10:55:00	05:00	150	24.53	6.25	102.96	1.12	4.10	21.7	170.86
11:00:00	10:00	150	24.52	5.99	103.96	0.67	3.27	21.1	174.65
11:05:00	15:00	150	24.55	5.84	105.27	0.02	3.35	21.0	173.55
11:10:00	20:00	150	24.54	5.82	105.80	0.02	3.61	20.7	176.59
11:15:00	25:00	150	24.56	5.81	105.70	0.02	3.74	20.6	179.03
11:20:00	30:00	150	24.56	5.82	105.91		3.83	20.4	181.31
11:25:00	35:00	150	24.56	5.87	106.36		3.94	21.0	178.86
11:30:00	40:00	150	24.56	5.89	109.49		3.93	21.5	176.97
Constituent San	pled			Container			Number	P	reservative
Metals	=		;	250mL HDPE	Plastic		1	Н	NO3
TDS				500 mL Plastic			1		one
RAD Chem				1L Plastic			2		one
CI, F, SO4				250 mL Plastic			1	N	one
Comments:		sor broke at 1 st Mark Chest 8		at 11:20 was	stable (dtw 24.56, tu	rb 0.02). Got	new compress	sor from Field a	and sampled at 13:35

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 diameter (inches) = gallons per foot

 Well Information

 Well Location:
 Well Locked at Arrival:

 Condition of Well:
 Well Locked at Departure:

 Well Completion:
 NA

 Key Number To Well:
 NA



Updated: 8/31/2022 1:51:50 PM

								Updated : 8 -04:00	3/31/2022 1:51:50 PN
Project Numbe	r 30053438		Well ID	YGWA-2	20S			Date	08/31/2022
Project Locatio	n AMA AP-3	3, A, B and B'		Weathe	e r(°F) 80 °F, , w	vinds at mph.			
Measuring Pt. Description	Top of Inn	er Casing	Screen Setting (ft-bmp) 19.22	Casing Diameter	(in) ²		Well Casing Material	PVC
Static Water .evel (ft-bmp)	11.57		Total Depth (ft- bmp)	29.52	Water Column(i	ft) 17.95		Gallons in Well	2.92
IP Elevation	767.12		Pump Intake (f bmp)	t- 24.5	Purge Me	ethod Low-Flo	ow .	Sample Method	Low-Flow
Sample Time	12:57		Well Volumes Purged	0.34	Sample II	D YGWA-	20S	Sampled by	Jessica Ware
urge Start	12:23		Gallons Purge	d 0.99	Replicate Code No.			Color	Clear
Purge End	13:35								
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperat °C	ture 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 Sa	mpled			Container			Number	P	reservative
AD Chem				1L Plastic			2	Н	INO3
 1etals				250mL HDPE	Plastic	-	1	— <u> </u>	INO3
riciais						_	1		
DS				500 mL Plastic	;		1	IN	lone

Well Casing Volume Conversion

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 diameter (inches) = gallons per foot

Well Information		
Well Location:	Well Locked at Arrival:	
Condition of Well:	Well Locked at Departure:	
Well Completion: NA	Key Number To Well: NA	



Updated: 8/31/2022 2:06:34 PM

-04:00

Project Number	30053438	Well ID	YGWA-21I			Date	08/30/2022
Project Location	AMA AP-3, A, B and B	1	Weather(°F)	84.2 degrees F mph.	and Mostly Cloudy. T	he wind is blow	ing undefined at 0.0
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-21I	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

Well Information			
Well Location:		Well Locked at Arrival:	
Condition of Well:		Well Locked at Departure:	
Well Completion:	NA	Key Number To Well:	NA

Well Completion: NA



Updated: 8/31/2022 2:06:35 PM

-04:00

								-04:00		
Project Number	30053438	3	Well ID	YGWA-3	39			Date	08/31/20)22
Project Location	n AMA R6 (CCR Landfill		Weathe	r(°F) 84.6 degre	ar. The wind is	is blowing N/NW at 6.9 mph.			
Measuring Pt. Description	Top of Inr	ner Casing	Screen Setting (ft-bmp	58.09	Casing Diameter (in) ²		Well Casing Material	PVC	
Static Water _evel (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 (fi	t- 63	Purge Method Low-Flow			Sample Method	Low-Flov	w
Sample Time	13:50		Well Volumes Purged	0.25	Sample ID	YGWA-	39	Sampled by	Mark Ch	nest
Purge Start	13:06		Gallons Purged	d 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)	Temperat °C	:ure	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 San	npled			Container			Number	P	reservati	ve
RAD Chem				1L Plastic			2	Н	INO3	
DS				500 mL Plastic	;		1		lone	
/letals				250 mL Plastic	:		1		INO3	
F,CI,SO4			 -	250 mL Plastic	:		1	N	lone	
Cammanta	News		-							
Comments:	None	-1								
Well Casing Vol Well diameter (in			1 = 0.04 1.5 = 0 1.25 = 0.06 2 =		3.5 = 0.50 6 = 1.47 4 = 0.65					
Well Information	า		20 - 0.00 2 -	3.70 0 = 0.07 4	. 0.00					
Well Location					Well Locked at Arr	ival:				
Condition of We				w	ell Locked at Depart				_	
201121101701770									_	

Key Number To Well: NA

Gallons Purged

1.59



Updated: 9/2/2022 10:29:15 AM

Clear

-04:00

Color

30053438 Well ID YGWA-40 Date 08/31/2022 **Project Number Project Location** AMA R6 CCR Landfill Weather(°F) 84.6 degrees F and Clear. The wind is blowing N/NW at 6.9 mph. **Well Casing** Measuring Pt. Screen Casing PVC Top of Inner Casing 37.73 Description Material Setting (ft-bmp) Diameter (in) **Static Water** Total Depth (ft-Gallons in Water 4.01 48.23 23.55 24.68 Level (ft-bmp) bmp) Column(ft) Well Pump Intake (ft-Sample 42 Purge Method Low-Flow **MP Elevation** 815.73 Low-Flow bmp) Method **Well Volumes** Sample Time 16:40 0.40 Sample ID YGWA-40 Sampled by Mark Chest Purged

Replicate/

Code No.

Purge End 16:36

16:06

Purge Start

							•		
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 $1 = 0.04 \ 1.5 = 0.09 \ 2.5 = 0.26 \ 3.5 = 0.50 \ 6 = 1.47$

Well Information			
Well Location:		Well Locked at Arrival:	
Condition of Well:		Well Locked at Departure:	
Well Completion:	NA	Key Number To Well:	NA



Updated: 8/31/2022 10:19:04

							AM -04:00	0/31/2022 10.19.04
30053438		Well ID	YGWA-	11			Date	08/31/2022
AP-2			Weathe	r(°F) 71.1 degre	es F and Clou	udy. The wind	is blowing N a	t 5.8 mph.
Top of Inne	er Casing	Screen Setting (ft-bmp	43.3	Casing Diameter	(in) ²		Well Casing Material	PVC
37.23		Total Depth (ft- bmp)	53.6	Water Column(ft	16.37		Gallons in Well	2.66
836.6		Pump Intake (ft bmp)	- 49	Purge Me	thod Low-Flo	w	Sample Method	Low-Flow
09:10		Well Volumes Purged	0.48	Sample ID	YGWA-	11	Sampled by	Khalil Carson
08:22		Gallons Purgeo	l 1.27	Replicate/ Code No.	1		Color	Clear
10:17								
Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperat °C	eure Redox (mV)
00:00	150	37.23	5.68	89.49		6.59	22.6	186.55
05:00	150	38.18	5.65	86.30	0.53	5.29	20.0	141.15
05:29	100	37.23	5.61	88.39	0.53	5.02	19.9	139.26
10:29	100	38.22	5.74	88.86	0.94	4.68	20.5	112.33
15:29	100	38.27	5.66	84.27	0.61	4.82	20.7	110.40
20:29	100	38.32	5.49	78.81	0.11	4.94	20.7	121.58
25:29	100	38.36	5.63	77.52	0.27	5.14	20.7	118.66
30:29	100	38.4	5.56	76.06	0.33	5.28	20.6	125.51
35:29	100	38.45	5.70	75.25	0.41	5.38	20.7	120.61
40:29	100	38.49	5.67	74.70	0.27	5.34	20.7	124.88
45:29	100	38.49	5.64	74.31	0.69	5.46	20.8	129.78
lad			0			November 2	-	
ipiea								reservative
								NO3
								lone
								INO3
			LOO ME I IASHU	· 		•		
·ma Canvara	·lan							
<u> </u>		1.20 - 0.00 2 = 1	0.10 0 = 0.07 4	. – 0.00				
				Well I ocked at Ar	rival·			
								_
				·				_
	AP-2 Top of Inne 37.23 836.6 09:10 08:22 10:17 Total Elapsed Minutes 00:00 05:00 05:29 10:29 15:29 20:29 25:29 30:29 35:29 40:29 45:29	AP-2 Top of Inner Casing 37.23 836.6 09:10 08:22 10:17 Total Elapsed Minutes 00:00 150 05:00 150 05:29 100 10:29 100 20:29 100 20:29 100 30:29 100 30:29 100 40:29 100 40:29 100 40:29 100 40:29 100 40:29 100 40:29 100 40:29 100 40:29 100 40:29 100 Abs:29 100 Abs:29 100 Abs:29 100 Abs:29 100 Abs:29 A	Top of Inner Casing Screen Setting (ft-bmp) 37.23 Total Depth (ft-bmp) 836.6 Pump Intake (ft bmp) 09:10 Well Volumes Purged 08:22 Gallons Purged 10:17 Total Elapsed Minutes (ft) 00:00 150 37.23 05:00 150 38.18 05:29 100 37.23 10:29 100 38.22 15:29 100 38.32 25:29 100 38.32 25:29 100 38.43 35:29 100 38.44 35:29 100 38.49 45:29 100 38.49 45:29 100 38.49 45:29 100 38.49 45:29 100 38.49 45:29 100 38.49 45:29 100 38.49	AP-2 Screen Setting (ft-bmp) 43.3 37.23 Total Depth (ft-bmp) 53.6 836.6 Pump Intake (ft-bmp) 49 09:10 Well Volumes Purged 0.48 08:22 Gallons Purged 1.27 10:17 Total Depth to Water (mL/min) Depth to Water (ft) (standard units) 00:00 150 37.23 5.68 05:00 150 38.18 5.65 05:29 100 38.22 5.74 15:29 100 38.22 5.74 15:29 100 38.32 5.49 25:29 100 38.32 5.49 25:29 100 38.36 5.63 30:29 100 38.45 5.70 40:29 100 38.49 5.67 45:29 100 38.49 5.67 45:29 100 38.49 5.64 Pump Intake (ft-bmp) 50 mL Plastic 250 mL Plas	AP-2 Weather(*F) 71.1 degree	AP-2 Weather(*F) 71.1 degrees F and Cloud Top of Inner Casing Setting (ft-bmp) 43.3 Casing Diameter (in) 2	AP-2 Weather(*F) 71.1 degrees F and Cloudy. The wind Setting (ft-bmp) 43.3 Casing Diameter (in) 2	AM - 04.00 April Am - 04.00 April Am - 04.00

Well Completion: NA



Updated: 9/8/2022 4:54:30 PM -

04:00

Project Number									
. 5,000 110111001	30053438		Well ID	YGWA-1	D			Date	08/30/2022
Project Location AP-2			Weather(°F) 75.6 degre		ees F and Cloudy. The wind is blowing undefined at 0.0 mph				
Measuring Pt. Description	Top of Inn	er 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(fi	79.46		Gallons in Well	12.91
MP Elevation	837.25		Pump Intake (f bmp)	t- 108	Purge Me	thod Low-Flo	w	Sample Method	Low-Flow
Sample Time	13:50		Well Volumes Purged	0.12	Sample IE	YGWA-	1D	Sampled by	Khalil Carson
Purge Start	13:15		Gallons Purge	d 1.59	Replicate Code No.	I		Color	Clear
Purge End	14:30								
	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperat °C	ure 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	101.9
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	-43.6
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 Samp	oled			Container			Number	P	reservative
RAD Chem				1L Plastic			2	Н	NO3
				500 mL Plastic			1		one
TDS					stic 1		1		one
TDS CI,F,SO4				250 mL Plastic				HNO3	

Key Number To Well: NA

Well Information

Well Location:

Well Completion: NA

Condition of Well:



							Updated: 8,	/30/2022	2 7:27:49 PN
30053438		Well ID	YGWA-2	1			Date	08/30/2	022
n AP-2			Weather	(°F) Cloudy tem	ıp 77				
Top of Oute	er Casing	Screen Setting (ft-bmp)	53.45	Casing Diameter (in) ²		Well Casing Material	PVC	
44.5		Total Depth (ft-k	omp) 63.75	Water Column(ft)	19.25		Gallons in Well	3.13	
866.25		•	bmp) 60	Purge Met	hod Low-Flow	V	Sample Method	Low-Flo	w
10:00			0.30	Sample ID	YGWA-2	21	Sampled by	Khalil C	arson
09:24		Gallons Purged	0.92	Replicate/ Code No.			Color	Clear	
11:43									
Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Tempera °C	ture	Redox (mV)
00:00	200	44.5	7.10	173.92		8.48	23.4		178.94
05:00	200	45.65	6.83	180.62	2.33	4.00	20.9		-40.08
10:00	150	46.00	6.94	189.14	1.05	1.60	20.5		-72.2
15:00	50	46.38	7.01	189.31	0.41	1.13	21.3		-82.9
20:00	50	46.63	7.04	188.53	0.77	1.11	21.9		-89.1
25:00:00	50	46.71	7.05	186.33	1.76	1.04	22.4		-90.7
30:00:00	50	46.81	7.04	184.05	0.53	1.04	22.7		-87.2
npled			Container			Number	P	reservati	ve
			1L Plastic			2	H	INO3	
			250 mL Plastic			1		INO3	
			500 mL Plastic			1	None		
			250 mL Plastic			1	F	INO3	
- ume Conversio	on								
	Top of Oute 44.5 866.25 10:00 09:24 11:43 Total Elapsed Minutes 00:00 05:00 10:00 15:00 20:00 25:00:00 30:00:00 mpled	Top of Outer Casing 44.5 866.25 10:00 09:24 11:43 Total Elapsed Minutes (mL/min) 00:00 200 05:00 200 10:00 150 15:00 50 20:00 50 30:00:00 50	Top of Outer Casing Screen Setting (ft-bmp) 44.5 Total Depth (ft-b) 866.25 Pump Intake (ft-b) 10:00 Well Volumes Purqed 09:24 Gallons Purged 11:43 Total Elapsed Minutes (mL/min) (ft) 00:00 200 44.5 05:00 200 45.65 10:00 150 46.00 15:00 50 46.38 20:00 50 46.63 25:00:00 50 46.81	AP-2 Screen Setting (ft-bmp) 53.45	AP-2 Weather(*F) Cloudy term	AP-2 Weather(°F) Cloudy temp 77	AP-2 Weather(°F) Cloudy temp 77	AP-2 Weather(*F) Cloudy temp 77	AP-2 Weather("F) Cloudy temp 77

Well Locked at Arrival:

Key Number To Well: NA

Well Locked at Departure:



Updated: 8/31/2022 1:51:49 PM

-04:00 30053438 Well ID YGWA-3I Date 08/31/2022 **Project Number** Project Location AP-2 Weather(°F) 78 °F, Sunny, winds at mph. **Well Casing** Measuring Pt. Screen Casing PVC Top of Inner Casing 48.85 Description Material Setting (ft-bmp) Diameter (in) Total Depth (ft-**Static Water** Gallons in Water 59.05 5.83 0.95 53.22 Level (ft-bmp) bmp) Column(ft) Well Pump Intake (ft-Sample Purge Method Low-Flow **MP Elevation** 796.55 54 Low-Flow bmp) Method **Well Volumes** Sample Time 10:54 2.05 Sample ID YGWA-3I Sampled by Jessica Ware Purged Replicate/ **Purge Start** 10:02 **Gallons Purged** 1.95 Clear Color Code No. **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

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47 Well diameter (inches) = gallons per foot

Well Information							
Well Location:	Well Locked at Arrival:						
Condition of Well:	Well Locked at Departure:						
Well Completion:	NA Key Number To Well: NA						



Updated: 9/1/2022 10:02:45 PM

-04:00

30053438 Well ID YGWA-3D Date 08/31/2022 **Project Number** Project Location AP-2 Weather(°F) 32 °F, , winds at mph. **Well Casing** Measuring Pt. Screen Casing PVC Top of Inner Casing 83.88 Description Material Setting (ft-bmp) Diameter (in) Total Depth (ft-**Static Water** Gallons in Water 134.18 103.88 30.3 16.88 Level (ft-bmp) bmp) Column(ft) Well Pump Intake (ft-Sample Purge Method Low-Flow **MP Elevation** 796.78 113 Low-Flow bmp) Method **Well Volumes** Sample Time 09:30 0.07 Sample ID YGWA-3D Sampled by Jessica Ware Purged Replicate/ **Purge Start** 08:57 **Gallons Purged** Color Clear 1.19 Code No. **Purge End** 10:01

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
CI, F, SO4	250 mL Plastic	1	None

Comments: Sampled

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot $1 = 0.04 \ 1.5 = 0.09 \ 2.5 = 0.26 \ 3.5 = 0.50 \ 6 = 1.47$

Well Information			
Well Location:		Well Locked at Arrival:	
Condition of Well:		Well Locked at Departure:	
Well Completion:	NA	Key Number To Well:	NA



Updated: 9/1/2022 3:43:23 PM -

04:00

30053438 Well ID YGWA-14S 08/31/2022 **Project Number** Date **Project Location** AP-2 Weather(°F) 83.7 degrees F and Clear. The wind is blowing N at 8.1 mph. Well Casing Measuring Pt. Screen Casing PVC Top of Inner Casing 24.66 Description Setting (ft-bmp) Diameter (in) Material **Static Water** Total Depth (ft-Gallons in Water 34.96 20.24 14.72 2.39 Level (ft-bmp) bmp) Column(ft) Well Pump Intake (ft-Sample **MP Elevation** 748.76 30 Purge Method Low-Flow Low-Flow Method bmp) **Well Volumes** Sample Time 14:15 1.03 Sample ID YGWA-14S Sampled by Khalil Carson Purged Replicate/ **Gallons Purged Purge Start** 13:10 2.47 Color Clear Code No.

Purge End 15:07

i dige Liid	13.01								
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	
CI,F,SO4	250 mL Plastic	1	None	

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot $1 = 0.04 \ 1.5 = 0.09 \ 2.5 = 0.26 \ 3.5 = 0.50 \ 6 = 1.47$



Well Location:		Well Locked at Arrival:	
Condition of Well:		Well Locked at Departure:	
Well Completion:	NA	Key Number To Well:	NA
•		·	



Updated: 9/1/2022 3:43:22 PM -

04:00

30053438 Well ID YGWA-30I Date 08/31/2022 **Project Number Project Location** AP-2 Weather(°F) Partly cloudy 81 **Well Casing** Screen Measuring Pt. Casing PVC Top of Inner Casing 49.18 Description Setting (ft-bmp) Diameter (in) Material **Static Water** Total Depth (ft-Gallons in Water 59.48 2.54 43.86 15.62 Level (ft-bmp) bmp) Column(ft) Well Pump Intake (ft-Sample **MP Elevation** 762.58 54.5 Purge Method Low-Flow Low-Flow Method bmp) **Well Volumes** Sample Time 11:30 0.67 Sample ID YGWA-30I Sampled by Khalil Carson Purged Replicate/ **Purge Start Gallons Purged** 1.70 10:44 Color Clear Code No.

Purge End 12:00

i dige Liid	12.00								
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)
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 26.4	161.79
11:02:00	17:53	150	43.9	6.13	53.46	1.31	7.97		26.4
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

Well Completion: NA



Updated: 8/30/2022 7:53:59 PM

-04:00

Well ID **Project Number** 30052922 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. **Well Casing** Measuring Pt. Screen Casing PVC Top of Inner Casing 42.1 Description Setting (ft-bmp) Diameter (in) Material Total Depth (ft-Gallons in Static Water Water 52.13 15.85 2.58 36.28 Level (ft-bmp) bmp) Column(ft) Well Pump Intake (ft-Sample MP Elevation 805.62 47 Purge Method Low-Flow Low-Flow Method bmp) **Well Volumes** Sample Time 10:05 0.20 Sample ID GWA-2 Sampled by Jake Swanson Purged Replicate/ **Gallons Purged Purge Start** 09:34 0.53 Color Clear Code No. **Purge End** 09:54 Depth to Total pН Specific Dissolved Rate **Turbidity Temperature** Redox Water Time Elapsed (standard Conductivity Oxygen (mL/min) (NTU) (mV) **Minutes** (ft) units) (µS/cm) (mg/L) 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 36.9 188.53 0.31 21.0 -89.15 5.35 1.11 09:49:00 15:00 100 36.96 5.35 186.33 0.36 1.04 20.8 -90.65 37.03 09:54:00 20:00 100 5.39 184.04 0.43 1.04 20.8 -87.16 **Constituent Sampled** Number Preservative Container RAD Chem 1L Plastic 2 HNO3 Metals 250 mL Plastic 1 HNO3 1 Chloride, F, SO4 250 mL Plastic None 1 TDS 500 mL Plastic 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:

Key Number To Well: NA

Well Location:

Well Completion: NA

Condition of Well:



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 **Well Casing** Measuring Pt. Screen Casing PVC Top of Inner Casing 49.4 2 Description Setting (ft-bmp) Diameter (in) Material Total Depth (ft-Gallons in Static Water Water 59.19 25.01 4.06 34.18 Level (ft-bmp) bmp) Column(ft) Well Pump Intake (ft-Sample MP Elevation 758.22 54 Purge Method Low-Flow Low-Flow Method bmp) **Well Volumes** Sample Time 09:15 0.20 Sample ID YGWA-47 Sampled by Jake Swanson Purged Replicate/ **Gallons Purged Purge Start** 08:47 0.79 Color Clear Code No. **Purge End** 09:07 Depth to Total pН Specific Dissolved Rate **Turbidity Temperature** Redox Water Time Elapsed (standard Conductivity Oxygen (mL/min) (NTU) (mV) **Minutes** (ft) units) (µS/cm) (mg/L) 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 34.75 0.96 193.14 150 5.26 129.13 3.62 19.2 09:02:00 15:00 150 34.77 5.28 129.79 0.89 3.53 19.0 188.90 34.79 5.32 0.02 09:07:00 20:00 150 135.11 3.44 19.1 185.05 **Constituent Sampled** Number Preservative Container 1L Plastic RAD Chem 2 HNO3 Metals 250 mL Plastic 1 HNO3 1 Chloride, F, SO4 250 mL Plastic None 1 TDS 500 mL Plastic 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 Locked at Arrival:

Key Number To Well: NA

Well Locked at Departure:



			1		
Proje	ct Location:	Gypsum Landfill			
Perm	nit Number:		1		
	Well ID:				
Perso		Jake Swanson	1		
		8/29/2022	-		
	Time:	09:39:00	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	NI.	N 1 / A
	1 2 1 - 1	and Constitution and	Yes	No	N/A
ı	Location Ide			_	
	a	Is the well visible and accessible?			
	b	Is the well properly identified with the correct well ID?	☑		
	С	Is the well in a high traffic area and does the well require protection from traffic?			
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	а	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?			
	С	Does the casing have a functioning weep hole?			
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			
3	Surface Pad				
	а	Is the well pad in good condition (not cracked or broken)?	$\overline{\mathbf{V}}$		
	b	Is the well pad sloped away from the protective casing?	V		
	С	Is the well pad in complete contact with the protective casing?	V		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	\square		
4	Internal Casi	· · ·			
	a	Does the cap prevent entry of foreign material into the well?	$\overline{\mathbf{A}}$		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	$\overline{\mathbf{V}}$		
	С	Is the well properly vented for equilibration of air pressure?	$\overline{\mathbf{V}}$		
	d	Is the survey point clearly marked on the inner casing?	\square		
	e	Is the depth of the well consistent with the original well log?	\square		
	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)	☑		
5	Sampling: G	roundwater Wells Only:			
	а	Does well recharge adequately when purged?	☑		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	V		
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	our professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
	Cut vegetati	on			
Ω	Date by who	en corrective actions are needed:			
O	Date by Wile	TOTICCHYC ACTIONS ARE NEEDED.			



Proje	ct Location:	AP-1			
	nit Number:				
	Well ID:	YGWA-47			
Perso	on Gauging:	David Prouty			
	Date:	8/29/2022			
	Time:	10:23:00			
			Yes	No	N/A
1	Location Ide	ntification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?	\square		
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious	Ø		
2	Protective Ca	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	\square		
	С	Is the well pad in complete contact with the protective casing?	\square		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion,	Ø		
	e	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ng			
	a	Does the cap prevent entry of foreign material into the well?	\square		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	\square		
	С	Is the well properly vented for equilibration of air pressure?	\square		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	e	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand	V		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		Ø	
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective ac	ctions as needed, by date:			
	Cut vegetati	on			
8	Date by whe	n corrective actions are needed:			



Proje	ct Location:	AP-2			
Perm	it Number:				
	Well ID:	YGWA-30I			
Perso	n Gauging:	Jake Swanson			
	Date:	8/29/2022			
	Time:	12:49:00			
			Yes	No	N/A
1	Location Ide	ntification:			
	а	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	☑		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	Ø		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\mathbf{Q}}$	
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
	Cut vegetati	on			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:	YGWA-14S			
Perso	n Gauging:	Jake Swanson			
		8/29/2022	_		
	Time:	12:39:00	<u> </u>		
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	\square		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	\square		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	\square		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	\square		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	\square		
	С	Is the well properly vented for equilibration of air pressure?	\square		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	Ø		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	\square		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		Ø	
6	Based on yo	our professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	\square		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
	Cut vegetati				
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'			
Pern	nit Number:				
	Well ID:	YGWA-21I			
Perso	on Gauging:	Jessica Ware			
		8/29/2022			
	Time:	09:48:00			î
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?			
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	а	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	а	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?			
	d	Is the survey point clearly marked on the inner casing?	Ø		
	e	Is the depth of the well consistent with the original well log?	Ø		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
,					
8	Date by whe	en corrective actions are needed:			



			1		
		AMA R6 CCR Landfill	-		
Perm	nit Number:		-		
		YGWA-39			
Perso	on Gauging:		_		
		8/29/2022	-		
	Time:	13:12:00	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		N 1 / A
4			Yes	No	N/A
ı	Location Identification:			_	_
	a	Is the well visible and accessible?	☑		
	b	Is the well properly identified with the correct well ID?	<u> </u>		
	C	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	V		
	С	Does the casing have a functioning weep hole?			
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?			
	С	Is the well pad in complete contact with the protective casing?	V		
	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)	☑		
	е	Is the pad surface clean (not covered with sediment or debris)?	V		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	\square		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	\square		
	С	Is the well properly vented for equilibration of air pressure?	V		
	d	Is the survey point clearly marked on the inner casing?	$\overline{\mathbf{V}}$		
	е	Is the depth of the well consistent with the original well log?	$\overline{\mathbf{v}}$		
	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)	\square		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	\square		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		V	
6	Based on yo	ur professional judgement, is the well construction / location:			
	, , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	$\overline{\mathbf{V}}$		
		and 2) comply with the applicable regulatory requirements?	$\overline{\mathbf{V}}$		
7	Corrective a	ctions as needed, by date:			
•					
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA R6 CCR Landfill			
Perm	nit Number:				
	Well ID:	YGWA-40			
Perso	n Gauging:	Jessica Ware			
		8/29/2022]		
	Time:	12:52:00			
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?		☑	
	b	Is the well properly identified with the correct well ID?	☑		
	С	Is the well in a high traffic area and does the well require protection from traffic?	☑		
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	☑		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	а	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	Ø		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	☑		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		Ø	
6	Based on yo	our professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
	Area overgre	own, should be cleared			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'			
Perm	nit Number:				
	Well ID:	YGWA-18S			
Perso	on Gauging:	Jessica Ware			
		8/29/2022			
	Time:	12:17:00			1
			Yes	No	N/A
1	Location Ide				
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?	\square		
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	\square		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	\square		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	\square		
	b	Is the well pad sloped away from the protective casing?	\square		
	С	Is the well pad in complete contact with the protective casing?	\square		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	а	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	\square		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?			
	е	Is the depth of the well consistent with the original well log?			
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	а	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?			Ø
6	Based on yo	our professional judgement, is the well construction / location:			
	-	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	\square		
7	Corrective a	ctions as needed, by date:			
Д	Date by whe	en corrective actions are needed:			
	Date by will	an confecure detions are needed.			



			1		
Proje	ct Location:	AMA AP-3, A, B and B'	_		
Perm	nit Number:		1		
		YGWA-18I	-		
Perso	on Gauging:		_		
		8/29/2022	-		
	Time:	12:14:00	V	NI-	NI/A
1	1		Yes	No	N/A
I	Location Ide				
	a	Is the well visible and accessible?			
	b	Is the well properly identified with the correct well ID?			
	C	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	☑		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	V		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	V		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?			
	С	Is the well pad in complete contact with the protective casing?	V		
	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)	V		
	е	Is the pad surface clean (not covered with sediment or debris)?	V		
4	Internal Cas	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	V		
	d	Is the survey point clearly marked on the inner casing?	V		
	е	Is the depth of the well consistent with the original well log?	V		
	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)	☑		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	V		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?			V
6	Based on yo	our professional judgement, is the well construction / location:			
	_	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
		•			
٩	Date by whe	en corrective actions are needed:			
3	= acc by will				



		AMA AP-3, A, B and B'	-		
Perm	nit Number:		_		
		YGWA-17S	-		
Perso	on Gauging:		-		
		8/29/2022	-		
	Time:	12:06:00	Voc	Na	NI/A
1	l osation Ido	ntification.	Yes	No	N/A
'	Location Ide				
	a	Is the well visible and accessible?			
	b	Is the well properly identified with the correct well ID?			
	C	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	V		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	V		
	С	Is the well pad in complete contact with the protective casing?	V		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	v		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	v		
	d	Is the survey point clearly marked on the inner casing?	V		
	е	Is the depth of the well consistent with the original well log?	Ø		
	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)	V		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	$\overline{\mathbf{A}}$		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
	С	Does the well require redevelopment (low flow, turbid)?			☑
6	Based on yo	ur professional judgement, is the well construction / location:			
	, , , , , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program			
		and 2) comply with the applicable regulatory requirements?			
7	Corrective a	ctions as needed, by date:			
•					
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'			
Pern	nit Number:				
	Well ID:	YGWA-5I			
Perso	on Gauging:	Jessica Ware			
	Date:	8/29/2022			
	Time:	10:22:00			
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	\square		
	b	Is the well properly identified with the correct well ID?	\square		
	С	Is the well in a high traffic area and does the well require protection from traffic?			
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	а	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	а	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	\square		
	е	Is the depth of the well consistent with the original well log?	\square		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	а	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	V		
	С	Does the well require redevelopment (low flow, turbid)?			Ø
6	Based on yo	our professional judgement, is the well construction / location:			
	_	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



			1		
		AMA AP-3, A, B and B'	-		
Perm	nit Number:		_		
		YGWA-5D	-		
Perso	on Gauging:		_		
		8/29/2022 10:11:00	1		
	ı ime:	10.11.00	Yes	No	N/A
1	Location Ide	partification:	165	INO	IN/A
,		Is the well visible and accessible?	$\overline{\mathbf{Q}}$		
	a				
	b	Is the well properly identified with the correct well ID?			
	С	Is the well in a high traffic area and does the well require protection from traffic?	Ц	V	Ц
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	V		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	V		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	V		
	b	Is the well pad sloped away from the protective casing?	V		
	С	Is the well pad in complete contact with the protective casing?	V		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	V		
4	Internal Cas	ing			
	a	Does the cap prevent entry of foreign material into the well?	V		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	V		
	С	Is the well properly vented for equilibration of air pressure?	V		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	V		
	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)	v		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	V		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
	С	Does the well require redevelopment (low flow, turbid)?			Ø
6	Based on yo	our professional judgement, is the well construction / location:			
	, , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	V		
7	Corrective a	ctions as needed, by date:			
•					
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'			
Perm	it Number:		-		
		YGWA-20S	-		
Perso	n Gauging:		_		
		8/29/2022	-		
	Time:	09:51:00	\		N 1 / A
1	1 1 1 - 1 -	at Continue	Yes	No	N/A
ı	Location Ide			_	_
	a	Is the well visible and accessible?			
	b	Is the well properly identified with the correct well ID?	<u> </u>		
	C	Is the well in a high traffic area and does the well require protection from traffic?	☑		
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	☑		
	С	Does the casing have a functioning weep hole?			
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	V		
	b	Is the well pad sloped away from the protective casing?	V		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	V		
4	Internal Casi	ng			
	а	Does the cap prevent entry of foreign material into the well?	$\overline{\mathbf{V}}$		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	V		
	С	Is the well properly vented for equilibration of air pressure?	V		
	d	Is the survey point clearly marked on the inner casing?	V		
	е	Is the depth of the well consistent with the original well log?	V		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?			
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	ur professional judgement, is the well construction / location:			
	y -	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	V		
7	Corrective a	ctions as needed, by date:			
•					
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'			
Perm	nit Number:				
	Well ID:	YGWA-4I			
Perso	n Gauging:	Jessica Ware			
	Date:	8/29/2022			
	Time:	09:55:00			
			Yes	No	N/A
1	Location Ide	ntification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		\square	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	а	Is the protective casing free from apparent damage and able to be secured?	☑		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	☑		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	$\overline{\mathbf{A}}$		
	С	Is the well properly vented for equilibration of air pressure?	$\overline{\mathbf{Q}}$		
	d	Is the survey point clearly marked on the inner casing?	\square		
	e	Is the depth of the well consistent with the original well log?	\square		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			Ø
	С	Does the well require redevelopment (low flow, turbid)?		V	
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
	No vehicle a	ccess, down trees			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:	YGWA-1I			
Perso	on Gauging:	Jessica Ware			
		8/29/2022			
	Time:	11:32:00			
			Yes	No	N/A
1	Location Ide				
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		\square	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	\square		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	\square		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	\square		
	b	Is the well pad sloped away from the protective casing?	\square		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	\square		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	\square		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	\square		
	С	Is the well properly vented for equilibration of air pressure?	\square		
	d	Is the survey point clearly marked on the inner casing?			
	e	Is the depth of the well consistent with the original well log?			
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?			
6		ur professional judgement, is the well construction / location:			
	-)-	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?			
7	Corrective a	ctions as needed, by date:	·		_
,	corrective a	enons as necacu, by auto.			
8	Date by whe	en corrective actions are needed:			



	ct Location:	AP-2	-		
Perm	nit Number:		-		
		YGWA-1D	-		
Perso	on Gauging:		-		
		8/29/2022	-		
	Time:	11:25:00			
			Yes	No	N/A
1	Location Ide				
	a	Is the well visible and accessible?	☑		
	b	Is the well properly identified with the correct well ID?	☑		
	С	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	V		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	а	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	V		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	V		
4	Internal Casi				
	а	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	V		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	V		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand	V		
	CC	due to lack of grout or use of slip couplings in construction)			
5	, ,	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		<u> </u>	
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Pern	nit Number:				
	Well ID:	YGWA-2I			
Perso	on Gauging:	Jessica Ware			
		8/29/2022			
	Time:	11:36:00			1
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		\square	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	а	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	· ·			
	а	Does the cap prevent entry of foreign material into the well?	\square		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?			
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	e	Is the depth of the well consistent with the original well log?	Ø		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\checkmark}$	
6		ur professional judgement, is the well construction / location:			
	, , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			-
,	Corrective at	caons as necaca, by dute.			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:	YGWA-3I			
Perso	on Gauging:	Jessica Ware			
		8/29/2022			
	Time:	11:06:00			i
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		\square	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	\square		
	С	Does the casing have a functioning weep hole?	\square		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	\square		
	b	Is the well pad sloped away from the protective casing?	$\overline{\mathbf{A}}$		
	С	Is the well pad in complete contact with the protective casing?	\square		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	\square		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	\square		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	$\overline{\mathbf{A}}$		
	С	Is the well properly vented for equilibration of air pressure?	\square		
	d	Is the survey point clearly marked on the inner casing?	$\overline{\mathbf{A}}$		
	е	Is the depth of the well consistent with the original well log?	$\overline{\mathbf{A}}$		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\checkmark}$	
6		our professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	<u>_</u>		
7	Corrective	ctions as needed, by date:			_
,	COTTECTIVE 4	choris as necueu, by date.			
8	Date by whe	en corrective actions are needed:			



Proio	ct Location:	ΔΡ-2			
	nit Number:	7.1. 2	1		
		YGWA-3D	1		
Perso	on Gauging:		1		
		8/29/2022	1		
	Time:	11:08:00			
			Yes	No	N/A
1	Location Ide	ntification:			
	а	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		V	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?			
	b	Is the casing free of degradation or deterioration?	\square		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	а	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	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)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	а	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	Ø		
	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	а	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		V	
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			

Appendix B

Analytical Lab and Data Validation Reports (February, August, and September 2022)

February 2022



Georgia Power Co. - Plant Yates

Data Review Report

Metals, Radium, and General Chemistry Analyses

SDGs #92587078 and 92587089

Analyses Performed By:

Pace Analytical Services – Asheville, North Carolina Pace Analytical Services – Peachtree Corners, Georgia Pace Analytical Services – Greensburg, Pennsylvania

Report #44873R Review Level: Tier II Project: 30052923.00004

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92587078 and 92587089 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	Parent	Analysis			
Sample ID	Lab ID	Matrix	Collection Date	Sample	RAD	MET	GEN CHEM	
YGWC-28S	92587078001 92587089001	Water	2/8/2022		Х	Х	Х	
YGWC-28I	92587078002 92587089002	Water	2/8/2022		Х	Х	Х	
AP-2-DUP-1	92587078003 92587089003	Water	2/8/2022	YGWC-28I	Х	Х	Х	
YGWC-29I	92587078004 92587089004	Water	2/8/2022		Х	Х	Х	
AP-2-FB-1	92587078005 92587089005	Water	2/8/2022		Х	Х	Х	
YGWC-27S	92587078006 92587089006	Water	2/8/2022		Х	X	Х	
AP-2-EB-1	92587078007 92587089007	Water	2/8/2022		Х	X	Х	
AP-2-EB-2	92587078008 92587089008	Water	2/9/2022		Х	X	Х	
AP-2-FB-2	92587078009 92587089009	Water	2/9/2022		Х	X	Х	
YGWC-26S	92587078010 92587089010	Water	2/10/2022		Х	Х	Х	
YGWC-26I	92587078011 92587089011	Water	2/10/2022		Х	Х	Х	
YGWC-27I	92587078012 92587089012	Water	2/10/2022		Х	Х	Х	

Data Review Report

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
	No	Yes	No	Yes	Required
Sample receipt condition		X		Х	
2. Requested analyses and sample results		Х		Х	
Master tracking list		Х		Х	
4. Methods of analysis		Х		Х	
5. Reporting limits		Х		Х	
6. Sample collection date		Х		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
9. Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed chain-of-custody form		Х		Х	
11. Narrative summary of QA or sample problems provided		Х		Х	
12. Data package completeness and compliance		Х		Х	

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), and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017).

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.

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

Data Review Report

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
YGWC-28S YGWC-28I AP-2-DUP-1 YGWC-29I YGWC-27S YGWC-26S YGWC-26I	Arsenic (EB, FB)	Detected sample results >RL and <bal< td=""><td>"UB" at detected sample concentration</td></bal<>	"UB" at detected sample concentration
YGWC-27I			

Notes:

EB = Equipment blank

FB = Field 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 YGWC-29I in association with SW-846 6010D analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YGWC-28I in association with SW-846 6020B analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YGWC-28S in association with SW-846 7470A analysis exhibited recoveries outside of the control limits as presented in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
YGWC-28S	Mercury	AC (77%)	74%

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 this SDG.

Control limit	Sample Result	Qualification
MS/MSD percent recovery 30% to 74%	Non-detect	UJ
Morniob percent recovery 30% to 74%	Detect	J
MS/MSD percent recovery <30%	Non-detect	R
MS/MSD percent recovery <30%	Detect	J
MS/MSD percent recovery >125%	Non-detect	No Action
Mornios percent recovery >12376	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.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Calcium	31.8	31.3	1.6%
	Barium	0.083	0.083	0.0%
	Boron	2.4	2.4	0.0%
YGWC-28I / AP-2-DUP-1	Antimony	0.0030 U	0.0011 J	
	Cadmium	0.00033 J	0.00030 J	AC
	Lithium	0.0076 J	0.0076 J	AC
	Molybdenum	0.0011 J	0.0012 J	

Note:

AC = Acceptable

The differences in the results between the parent sample YGWC-28I and field duplicate sample AP-2-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	Rep	Reported		rmance ptable	Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Specific Inductively Coupled Plasma-Mass Spectrometry (IC Cold Vapor Atomic Absorption (CVAA)	~ •	AES)			
Tier II Validation					
Holding Times		Х		Х	
Reporting limits (units)		Х		Х	
Blanks	I		I	l	
A. Method Blanks		Х		Х	
B. Equipment/Field Blanks		Х	Х		
Laboratory Control Sample (LCS) %R		Х		Х	
Matrix Spike (MS) %R		Х		Х	
Matrix Spike Duplicate (MSD) %R		Х	Х		
MS/MSD Precision (RPD)		Х		Х	
Laboratory Duplicate (RPD)	Х				Х
Field Duplicate (RPD)		Х		Х	

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 AP-2-FB-1 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 AP-2-FB-1 and YGWC-27I in association with TDS analysis exhibited RPDs 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
	TDS	206	202	2.0%
YGWC-28I / AP-2-DUP-1	Chloride	15.2	15.1	0.7%
1000 2017 71 2 201 1	Sulfate	8.1	8.1	0.0%
	Fluoride	0.063 J	0.063 J	AC

Note:

AC = Acceptable

The differences in the results between the parent sample YGWC-28I and field duplicate sample AP-2-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	Reported		Performance Acceptable		Not Required	
300.0	No	Yes	No	Yes		
Miscellaneous Instrumentation						
Tier II Validation						
Holding Times		Х		Х		
Reporting limits (units)		Х		Х		
Blanks		<u> </u>	1	ı		
A. Method Blanks		Х		Х		
B. Equipment/Field Blanks		Х		Х		
Laboratory Control Sample (LCS) %R		Х		Х		
Matrix Spike (MS) %R		Х		Х		
Matrix Spike Duplicate (MSD) %R		Х		Х		
MS/MSD Precision (RPD)		Х		Х		
Laboratory Duplicate (RPD)		Х		Х		
Field Duplicate (RPD)		Х		Х		

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 (MCD).

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:

Normalized absolute difference
$$_{MethodBlan \, k} = \frac{ / \, Sample \, - \, Blank \, / }{ \sqrt{ \left(U_{Sample} \, \right)^2 + \left(U_{Blank} \, \right)^2 }}$$

Where:

Usample = 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:

Radium-228, Radium-226, and total Radium were detected in the QA blanks, however, the activities were measured as less than the uncertainty and MDC or between the uncertainty and MDC as described above. Hence, the blank results are considered non-detect and no qualification of the results was required.

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 $< \pm 3$ 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.

 x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

 $u^2(x)$, $u^2(x0)$, $u^2(c)$ = 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.

^{* =} 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

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 YGWC-28S 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	
	Radium-226	0.0326 ± 0.0715	0.0621 ± 0.0828		
YGWC-28I / AP-2-DUP-1	Radium-228	1.04 ± 0.575	0.334 ± 0.282	AC	
	Total Radium	1.07 ± 0.647	0.396 ± 0.365		

Note:

AC = Acceptable

The differences in the results between the parent sample YGWC-28I and field duplicate sample AP-2-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:

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

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. <u>If either one of these criteria is true, the sample result is considered "non-detect".</u>

- 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:

- YGWC-28I, AP-2-DUP-1, YGWC-29I, YGWC-27S, YGWC-26S, and YGWC-26I Radium-226, Radium-228, and total Radium
- YGWC-27I Radium-226

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		Х		Х		
Activity, +/- uncertainty, MDC/MDA		Х		Х		
Blanks			1			
A. Method Blanks		Х		Х		
B. Equipment/Field Blanks		Х		Х		
Carrier (Surrogate) %R		Х		Х		
Tracer (Surrogate) %R		Х		Х		
Laboratory Control Sample (LCS) %R		Х		X		
Laboratory Control Sample Duplicate (LCSD) %R		Х		Х		
LCS/LCSD Precision (RPD)		Х		X		
Matrix Spike (MS) %R	Х				Х	
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: Sennifer Of Singer

DATE: March 21, 2022

PEER REVIEW: Dennis Capria

DATE: March 25, 2022

Chain of	Custody	/ Data Qu	ıalifier Su	ımmary T	able

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

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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.

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1	YGWC-26S		WΤ	G			-	-		-6-	2-	- 3	+ 1		Т		П	×	×	, ,	+		\top	П	\vdash	\vdash	寸.			
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3	YGWC-27S		WΤ	G	2/8/22	1737	-	-		5	2	3			\top	\vdash	ll	×	x :	× >			1	П		Н	-	H: 6.	22	
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	Suite 300.0 (Cl, F, Sulfate)	C/2	<i>XX</i>		- July	100	/Arcadis		100	1	010	+	_>	No.			_/	H	Ca	de	5	2/9/		70	ZØ	_	4			<u> </u>
App IV: Berylliu Lithium	Metals: Boron 6020B, Ca 6010D Metals 6020B: Antimory (Sb), Arsenic (As), Barium (Ba), m (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Li), Molybdenum (Mo), Selenium (Se) Mercury (Hg)	(Pb),	2		//	Ma	rais	219	100	110	210		70	_		- [11					20	.9	6	218		+			
						SAMPLE	R NAME	AND SIC	NATU	RE	Naci.	THE.					July 1		i li line		200	()				1	\dashv			-
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					- 1	SI	GNATUR	E of SAM	PLER	1	225	100	711	an			٦	D	ATE	Signe	rd: 7	191	122			TEMP		Received ce (Y/N)	Custody Sealed Cooler (Y/N)	Samples ntact (Y/N)



SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92587078				N	o qualifi	ers assigned	
92587089	YGWC-28S	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
		SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	YGWC-28I	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
		SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	AP-2-DUP-1	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
		SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	YGWC-29I	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
		SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	AP-2-FB-1	SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	YGWC-27S	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
		SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	AP-2-EB-1	SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	AP-2-EB-2	SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	AP-2-FB-2	SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	YGWC-26S	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
		SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	YGWC-26I	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
		SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	YGWC-27I	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
		SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL

Abbreviations:

%R = percent recovery LCL = lower control limit mg/L = milligrams per liter MSD = matrix spike duplicate

Qualifiers:

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





February 25, 2022

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

RE: Project: YATES AP-2

Pace Project No.: 92587089

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2022 and February 11, 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,

Micole D'oles

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Anna Bottum, ERM
Andrea Brazell, ERM
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Lacy Smith, ERM
Samantha Thomas

Caitlin Tillema, ERM Christine Weaver, ERM Albert Zumbuhl, Arcadis





CERTIFICATIONS

Project: YATES AP-2 Pace Project No.: 92587089

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006

9800 Kincey 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

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

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092 Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

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

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

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



SAMPLE SUMMARY

Project: YATES AP-2
Pace Project No.: 92587089

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92587089001	YGWC-28S	Water	02/08/22 15:21	02/09/22 10:18
92587089002	YGWC-28I	Water	02/08/22 16:17	02/09/22 10:18
92587089003	AP-2-DUP-1	Water	02/08/22 00:00	02/09/22 10:18
92587089004	YGWC-29I	Water	02/08/22 14:02	02/09/22 10:18
92587089005	AP-2-FB-1	Water	02/08/22 15:35	02/09/22 10:18
92587089006	YGWC-27S	Water	02/08/22 17:37	02/09/22 10:18
92587089007	AP-2-EB-1	Water	02/08/22 18:27	02/09/22 10:18
92587089008	AP-2-EB-2	Water	02/09/22 18:45	02/10/22 17:00
92587089009	AP-2-FB-2	Water	02/09/22 16:45	02/10/22 17:00
92587089010	YGWC-26S	Water	02/10/22 09:15	02/11/22 16:45
92587089011	YGWC-26I	Water	02/10/22 10:25	02/11/22 16:45
92587089012	YGWC-27I	Water	02/10/22 11:45	02/11/22 16:45



SAMPLE ANALYTE COUNT

Project: YATES AP-2
Pace Project No.: 92587089

92887089001 YGWC-28S	Lab ID	Sample ID	Method	Analysts	Analytes Reported
PATA PATA PATA PATA PATA PATA PATA PAT	92587089001	YGWC-28S	EPA 6010D	<u> </u>	1
SM 2540C-2015 ALW 1 1 1 1 1 1 1 1 1			EPA 6020B	CW1	13
P2587089002 P36WC-28 P3			EPA 7470A	VB	1
92587089002 YGWC-28I EPA 6010D KH 1 EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 ALW 3 P2587089003 AP-2-DUP-1 EPA 800.0 Rev 2.1 1993 JCM 13 P2587089003 AP-2-DUP-1 EPA 6010D KH 1 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 500.0 Rev 2.1 1993 JCM 3 3 92587089004 YGWC-29I EPA 6010D KH 1 EPA 500.0 Rev 2.1 1993 JCM 3 92587089005 AP-2-FB-1 EPA 6010D KH 1 EPA 500.0 Rev 2.1 1993 JCM 3 92587089005 AP-2-FB-1 EPA 6010D KH 1 EPA 500.0 Rev 2.1 1993 JCM 3 92587089006 YGWC-27S EPA 6010D KH 1 EPA 500.0 Rev 2.1 1993 JCM 3 92587089007 YGWC-27S EPA 6010D KH			SM 2540C-2015	ALW	1
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SM 2540C-2015 ALW 1			EPA 6020B	CW1	13
92587089003			EPA 7470A	VB	1
92587089003 AP-2-DUP-1 EPA 6010D KH 1 EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 ALW 1 P2587089004 YGWC-29I EPA 300.0 Rev 2.1 1993 JCM 3 P2587089004 YGWC-29I EPA 6010D KH 1 EPA 74770A VB 1 1 SM 2540C-2015 ALW 1 SM 2540C-2015 ALW 1 EPA 7470A VB 1 EPA 6010D KH 1 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 1 SM 2540C-2015 ALW 1 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 <td></td> <td></td> <td>SM 2540C-2015</td> <td>ALW</td> <td>1</td>			SM 2540C-2015	ALW	1
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			EPA 300.0 Rev 2.1 1993	JCM	3
EPA 6020B CW1 13	92587089008	AP-2-EB-2	EPA 6010D	KH	1
			EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

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



SAMPLE ANALYTE COUNT

Project: YATES AP-2 Pace Project No.: 92587089

Lab ID	Sample ID	Method	Analysts	Analytes Reported
	_	EPA 7470A		1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587089009	AP-2-FB-2	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587089010	YGWC-26S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
2587089011	YGWC-26I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587089012	YGWC-27I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3

PASI-A = Pace Analytical Services - Asheville PASI-C = Pace Analytical Services - Charlotte

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



SUMMARY OF DETECTION

Project: YATES AP-2
Pace Project No.: 92587089

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifier
2587089001	YGWC-28S					
	Performed by	CUSTOME R			02/09/22 12:28	
	рН	6.30	Std. Units		02/09/22 12:28	
EPA 6010D	Calcium	26.7	mg/L	1.0	02/23/22 20:09	
EPA 6020B	Arsenic	0.0042J	mg/L	0.0050	02/23/22 18:29	В
PA 6020B	Barium	0.20	mg/L	0.0050	02/23/22 18:29	
PA 6020B	Boron	2.4	mg/L	0.040	02/23/22 18:29	
PA 6020B	Cobalt	0.00091J	mg/L	0.0050	02/23/22 18:29	
PA 6020B	Molybdenum	0.00082J	mg/L	0.010	02/23/22 18:29	
M 2540C-2015	Total Dissolved Solids	216	mg/L	10.0	02/14/22 15:18	
PA 300.0 Rev 2.1 1993	Chloride	18.3	mg/L	1.0	02/15/22 04:46	
PA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	02/15/22 04:46	
PA 300.0 Rev 2.1 1993	Sulfate	10.5	mg/L	1.0	02/15/22 04:46	
587089002	YGWC-28I					
	Performed by	CUSTOME			02/09/22 12:28	
	рН	R 6.34	Std. Units		02/09/22 12:28	
PA 6010D	Calcium	31.8	mg/L	1.0	02/23/22 20:14	
PA 6020B	Arsenic	0.0021J	mg/L	0.0050	02/23/22 18:35	В
PA 6020B	Barium	0.083	mg/L	0.0050	02/23/22 18:35	5
PA 6020B	Boron	2.4	mg/L	0.040	02/23/22 18:35	
PA 6020B	Cadmium	0.00033J	mg/L	0.00050	02/23/22 18:35	
PA 6020B	Lithium	0.0076J	mg/L	0.030	02/23/22 18:35	
PA 6020B	Molybdenum	0.00703 0.0011J	mg/L	0.010	02/23/22 18:35	
M 2540C-2015	Total Dissolved Solids	206	mg/L	10.0	02/14/22 15:18	
PA 300.0 Rev 2.1 1993	Chloride	15.2	mg/L	1.0	02/15/22 04:59	
PA 300.0 Rev 2.1 1993	Fluoride	0.063J	mg/L	0.10	02/15/22 04:59	
EPA 300.0 Rev 2.1 1993	Sulfate	8.1	mg/L	1.0	02/15/22 04:59	
2587089003	AP-2-DUP-1	0.1	IIIg/L	1.0	02/13/22 04.39	
		24.2	m m //	1.0	02/22/22 20:49	
PA 6010D	Calcium	31.3	mg/L	1.0	02/23/22 20:18	
PA 6020B	Antimony	0.0011J	mg/L	0.0030	02/23/22 18:59	Б
PA 6020B	Arsenic	0.0022J	mg/L	0.0050	02/23/22 18:59	В
PA 6020B	Barium	0.083	mg/L	0.0050	02/23/22 18:59	
PA 6020B	Boron	2.4	mg/L	0.040	02/23/22 18:59	
PA 6020B	Cadmium	0.00030J	mg/L	0.00050		
PA 6020B	Lithium	0.0076J	mg/L		02/23/22 18:59	
PA 6020B	Molybdenum	0.0012J	mg/L		02/23/22 18:59	
M 2540C-2015	Total Dissolved Solids	202	mg/L		02/14/22 15:19	
PA 300.0 Rev 2.1 1993	Chloride	15.1	mg/L		02/15/22 05:13	
PA 300.0 Rev 2.1 1993	Fluoride	0.063J	mg/L		02/15/22 05:13	
PA 300.0 Rev 2.1 1993	Sulfate	8.1	mg/L	1.0	02/15/22 05:13	
2587089004	YGWC-29I	CHETOME			00/00/00 40 00	
	Performed by	CUSTOME R			02/09/22 12:28	
	рН	5.88	Std. Units		02/09/22 12:28	
PA 6010D	Calcium	9.3	mg/L	1.0	02/23/22 20:33	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AP-2
Pace Project No.: 92587089

∟ab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2587089004	YGWC-29I					
PA 6020B	Arsenic	0.0033J	mg/L	0.0050	02/23/22 19:05	В
EPA 6020B	Barium	0.057	mg/L	0.0050	02/23/22 19:05	
EPA 6020B	Boron	0.71	mg/L	0.040	02/23/22 19:05	
EPA 6020B	Cadmium	0.00019J	mg/L	0.00050	02/23/22 19:05	
EPA 6020B	Lithium	0.0064J	mg/L	0.030	02/23/22 19:05	
SM 2540C-2015	Total Dissolved Solids	120	mg/L	10.0	02/14/22 15:19	
PA 300.0 Rev 2.1 1993	Chloride	5.5	mg/L	1.0	02/15/22 05:55	
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.10	02/15/22 05:55	
EPA 300.0 Rev 2.1 1993	Sulfate	22.9	mg/L	1.0	02/15/22 05:55	
2587089005	AP-2-FB-1					
PA 6020B	Arsenic	0.0033J	mg/L	0.0050	02/23/22 19:11	В
PA 6020B	Boron	0.014J	mg/L	0.040	02/23/22 19:11	
2587089006	YGWC-27S					
	Performed by	CUSTOME			02/09/22 12:28	
	рН	R 6.22	Std. Units		02/09/22 12:28	
PA 6010D	Calcium	27.2	mg/L	1.0	02/23/22 20:58	
PA 6020B	Arsenic	0.0019J	mg/L	0.0050	02/23/22 19:29	В
PA 6020B	Barium	0.068	mg/L	0.0050	02/23/22 19:29	
PA 6020B	Boron	1.1	mg/L	0.20	02/24/22 12:52	
PA 6020B	Cobalt	0.0017J	mg/L	0.0050	02/23/22 19:29	
SM 2540C-2015	Total Dissolved Solids	159	mg/L	10.0	02/14/22 15:19	
PA 300.0 Rev 2.1 1993	Chloride	13.0	mg/L	1.0	02/15/22 06:51	
EPA 300.0 Rev 2.1 1993	Fluoride	0.087J	mg/L	0.10	02/15/22 06:51	
EPA 300.0 Rev 2.1 1993	Sulfate	16.3	mg/L		02/15/22 06:51	
2587089007	AP-2-EB-1		3			
PA 6020B	Arsenic	0.0027J	mg/L	0.0050	02/23/22 19:35	В
2587089008	AP-2-EB-2		J			
PA 6020B	Arsenic	0.0038J	mg/L	0.0050	02/23/22 20:11	В
2587089009	AP-2-FB-2					
PA 6020B	Arsenic	0.0038J	mg/L	0.0050	02/23/22 20:17	В
2587089010	YGWC-26S					
	Performed by	CUSTOME R			02/14/22 11:29	
	рН	5.31	Std. Units		02/14/22 11:29	
EPA 6010D	Calcium	11.6	mg/L	1.0	02/23/22 22:04	
EPA 6020B	Arsenic	0.0032J	mg/L	0.0050	02/23/22 20:53	В
PA 6020B	Barium	0.027	mg/L	0.0050	02/23/22 20:53	
PA 6020B	Beryllium	0.000093J	mg/L	0.00050	02/23/22 20:53	
PA 6020B	Boron	0.79	mg/L	0.20	02/24/22 13:10	
FA OUZUD	Cobalt	0.0026J	mg/L	0.0050	02/23/22 20:53	
				0.0000	J-, -U, -L 20.00	
PA 6020B			•	10.0	02/17/22 16:06	
EPA 6020B EPA 6020B SM 2540C-2015 EPA 300.0 Rev 2.1 1993	Total Dissolved Solids Chloride	168 14.0	mg/L mg/L	10.0 1.0	02/17/22 16:06 02/19/22 03:43	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AP-2
Pace Project No.: 92587089

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587089011	YGWC-26I					
	Performed by	CUSTOME R			02/14/22 11:30	
	рН	5.84	Std. Units		02/14/22 11:30	
EPA 6010D	Calcium	16.4	mg/L	1.0	02/23/22 22:09	
EPA 6020B	Arsenic	0.0028J	mg/L	0.0050	02/23/22 20:59	В
EPA 6020B	Barium	0.063	mg/L	0.0050	02/23/22 20:59	
EPA 6020B	Boron	0.79	mg/L	0.20	02/24/22 13:16	
EPA 6020B	Lithium	0.0086J	mg/L	0.030	02/23/22 20:59	
EPA 6020B	Selenium	0.0042J	mg/L	0.0050	02/23/22 20:59	
SM 2540C-2015	Total Dissolved Solids	207	mg/L	10.0	02/17/22 16:06	
EPA 300.0 Rev 2.1 1993	Chloride	15.4	mg/L	1.0	02/19/22 03:59	
EPA 300.0 Rev 2.1 1993	Sulfate	81.8	mg/L	1.0	02/19/22 03:59	
2587089012	YGWC-27I					
	Performed by	CUSTOME R			02/14/22 11:30	
	рН	6.23	Std. Units		02/14/22 11:30	
EPA 6010D	Calcium	27.4	mg/L	1.0	02/23/22 22:23	
EPA 6020B	Arsenic	0.0040J	mg/L	0.0050	02/23/22 21:05	В
EPA 6020B	Barium	0.079	mg/L	0.0050	02/23/22 21:05	
EPA 6020B	Beryllium	0.00013J	mg/L	0.00050	02/23/22 21:05	
EPA 6020B	Boron	2.5	mg/L	0.20	02/24/22 13:22	
EPA 6020B	Cobalt	0.0051	mg/L	0.0050	02/23/22 21:05	
EPA 6020B	Lithium	0.0072J	mg/L	0.030	02/23/22 21:05	
EPA 6020B	Molybdenum	0.0018J	mg/L	0.010	02/23/22 21:05	
SM 2540C-2015	Total Dissolved Solids	190	mg/L	10.0	02/17/22 16:06	
EPA 300.0 Rev 2.1 1993	Chloride	13.1	mg/L	1.0	02/19/22 04:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.059J	mg/L	0.10	02/19/22 04:14	
EPA 300.0 Rev 2.1 1993	Sulfate	2.4	mg/L	1.0	02/19/22 04:14	



Project: YATES AP-2
Pace Project No.: 92587089

Date: 02/25/2022 01:33 PM

Sample: YGWC-28S	Lab ID:	92587089001	Collecte	ed: 02/08/22	2 15:21	Received: 02/	/09/22 10:18 Ma	atrix: Water	
ъ.	D 1	11.2	Report	MDI				0404	0
Parameters Parameters	Results -	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME R				1		02/09/22 12:28		
рН	6.30	Std. Units			1		02/09/22 12:28		
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	thod: El	PA 3010A			
	•	lytical Services							
Calcium	26.7	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 20:09	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Prej	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	3A				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 18:29	7440-36-0	
Arsenic	0.0042J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 18:29	7440-38-2	В
Barium	0.20	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 18:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1		02/23/22 18:29		
Boron	2.4	mg/L	0.040	0.0086	1		02/23/22 18:29		
Cadmium	ND	mg/L	0.00050	0.00011	1		02/23/22 18:29		
Chromium	ND	mg/L	0.0050	0.0011	1		02/23/22 18:29		
Cobalt	0.00091J	mg/L	0.0050	0.00011	1		02/23/22 18:29		
Lead	0.000913 ND	mg/L	0.0030	0.00039	1		02/23/22 18:29		
		-							
Lithium	ND	mg/L	0.030	0.00073	1		02/23/22 18:29		
Molybdenum	0.00082J	mg/L	0.010	0.00074	1		02/23/22 18:29		
Selenium	ND	mg/L	0.0050	0.0014	1		02/23/22 18:29		
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 18:29	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	7470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	3A				
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:08	7439-97-6	M1
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	3A				
Total Dissolved Solids	216	mg/L	10.0	10.0	1		02/14/22 15:18		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
-	Pace Ana	lytical Services	- Asheville						
Chloride	18.3	mg/L	1.0	0.60	1		02/15/22 04:46	16887-00-6	
Fluoride	0.14	mg/L	0.10	0.050	1		02/15/22 04:46	16984-48-8	
Sulfate	10.5	mg/L	1.0	0.50	1		02/15/22 04:46		



Project: YATES AP-2
Pace Project No.: 92587089

Date: 02/25/2022 01:33 PM

Sample: YGWC-28I	Lab ID:	92587089002	Collecte	ed: 02/08/22	2 16:17	Received: 02/	09/22 10:18 N	latrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME R				1		02/09/22 12:28	3	
рН	6.34	Std. Units			1		02/09/22 12:28	3	
6010D ATL ICP	•	Method: EPA 6 lytical Services				PA 3010A			
Calcium	31.8	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 20:14	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 lytical Services				PA 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 18:35	7440-36-0	
Arsenic	0.0021J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 18:35	7440-38-2	В
Barium	0.083	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 18:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 18:35	7440-41-7	
Boron	2.4	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 18:35	7440-42-8	
Cadmium	0.00033J	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 18:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 18:35	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 18:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 18:35	7439-92-1	
Lithium	0.0076J	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 18:35	7439-93-2	
Molybdenum	0.0011J	mg/L	0.010	0.00074	1	02/23/22 14:19			
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 18:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 18:35	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	'470A Prep	paration Met	hod: EF	A 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:18	7439-97-6	
2540C Total Dissolved Solids	•	Method: SM 25							
	Pace Ana	lytical Services	- Peachtre	e Corners, C	€A				
Total Dissolved Solids	206	mg/L	10.0	10.0	1		02/14/22 15:18	}	
300.0 IC Anions 28 Days	· ·	Method: EPA 3 lytical Services		2.1 1993					
Chloride	15.2	mg/L	1.0	0.60	1		02/15/22 04:59	16887-00-6	
Fluoride	0.063J	mg/L	0.10	0.050	1		02/15/22 04:59		
Sulfate	8.1	mg/L	1.0	0.50	1		02/15/22 04:59		
Canalo	0.1	mg/L	1.0	0.50	'		02/10/22 04.08	, 1 - 000-13-0	



Project: YATES AP-2
Pace Project No.: 92587089

Date: 02/25/2022 01:33 PM

Sample: AP-2-DUP-1	Lab ID:	92587089003		ed: 02/08/22	2 00:00	Received: 02/	09/22 10:18 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Met	hod: El	PA 3010A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	€A				
Calcium	31.3	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 20:18	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: Ef	PA 3005A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	€A				
Antimony	0.0011J	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 18:59	7440-36-0	
Arsenic	0.0022J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 18:59		В
Barium	0.083	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 18:59	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 18:59	7440-41-7	
Boron	2.4	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 18:59	7440-42-8	
Cadmium	0.00030J	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 18:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 18:59	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 18:59	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 18:59	7439-92-1	
Lithium	0.0076J	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 18:59	7439-93-2	
Molybdenum	0.0012J	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 18:59	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 18:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 18:59	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prej	paration Met	hod: EF	PA 7470A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:21	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Anal	ytical Services	- Peachtre	e Corners, C	€A				
Total Dissolved Solids	202	mg/L	10.0	10.0	1		02/14/22 15:19		
300.0 IC Anions 28 Days	-	Method: EPA : ytical Services							
Chloride	15.1	mg/L	1.0	0.60	1		02/15/22 05:13	16887-00-6	
Fluoride	0.063J	mg/L	0.10	0.050	1		02/15/22 05:13		
Sulfate	8.1	mg/L	1.0	0.50	1		02/15/22 05:13	14808-79-8	



Project: YATES AP-2
Pace Project No.: 92587089

Date: 02/25/2022 01:33 PM

Sample: YGWC-29I	Lab ID:	92587089004	Collected	d: 02/08/22	2 14:02	Received: 02/	09/22 10:18 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME R				1		02/09/22 12:28		
рН	5.88	Std. Units			1		02/09/22 12:28	i e	
6010D ATL ICP	•	Method: EPA 6				PA 3010A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	SA.				
Calcium	9.3	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 20:33	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Prepa	aration Met	hod: EF	A 3005A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	SA.				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 19:05	7440-36-0	
Arsenic	0.0033J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:05		В
Barium	0.057	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 19:05		_
Beryllium	ND	mg/L		0.000054	1	02/23/22 14:19			
Boron	0.71	mg/L	0.00030	0.0086	1	02/23/22 14:19			
Cadmium	0.00019J	mg/L	0.0050	0.0000	1	02/23/22 14:19			
Chromium	0.000193 ND	mg/L	0.0050	0.00011	1	02/23/22 14:19			
		-							
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19			
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19			
Lithium	0.0064J	mg/L	0.030	0.00073	1	02/23/22 14:19			
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19			
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19			
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:05	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prepa	aration Met	hod: EP	A 7470A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	SA.				
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:23	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	•	lytical Services		Corners, C	SA .				
Total Dissolved Solids	120	mg/L	10.0	10.0	1		02/14/22 15:19	ı	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2.	1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	5.5	mg/L	1.0	0.60	1		02/15/22 05:55	16887-00-6	
Fluoride	0.053J	mg/L	0.10	0.050	1		02/15/22 05:55		
Sulfate	22.9	mg/L	1.0	0.50	1		02/15/22 05:55		



Project: YATES AP-2
Pace Project No.: 92587089

Date: 02/25/2022 01:33 PM

Sample: AP-2-FB-1	Lab ID:	92587089005	Collecte	ed: 02/08/22	2 15:35	Received: 02/	09/22 10:18 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	Analytical N	Method: EPA 6	010D Pre	paration Me	thod: El	PA 3010A			
	Pace Analy	tical Services	- Peachtre	e Corners, 0	ЭΑ				
Calcium	ND	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 20:53	7440-70-2	
6020 MET ICPMS	Analytical N	Method: EPA 6	020B Pre	paration Met	thod: Ef	PA 3005A			
	Pace Analy	tical Services	- Peachtre	e Corners, 0	GΑ				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 19:11	7440-36-0	
Arsenic	0.0033J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:11	7440-38-2	В
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 19:11	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 19:11	7440-41-7	
Boron	0.014J	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 19:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 19:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 19:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 19:11	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 19:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 19:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 19:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:11	7440-28-0	
7470 Mercury	Analytical N	Method: EPA 7	470A Pre	paration Met	thod: EF	PA 7470A			
	Pace Analy	tical Services	- Peachtre	e Corners, 0	ЭΑ				
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:26	7439-97-6	
2540C Total Dissolved Solids	•	Method: SM 25			~ A				
	,			•					
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/14/22 15:19		
300.0 IC Anions 28 Days	•	Method: EPA 3 rtical Services							
Chloride	ND	mg/L	1.0	0.60	1		02/15/22 06:09	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/22 06:09		
Sulfate	ND	mg/L	1.0	0.50	1		02/15/22 06:09		



Project: YATES AP-2
Pace Project No.: 92587089

Date: 02/25/2022 01:33 PM

Parameters									
Parameters			Report						
	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME R				1		02/09/22 12:28		
рН	6.22	Std. Units			1		02/09/22 12:28		
6010D ATL ICP	•	Method: EPA 6 lytical Services				PA 3010A			
Calcium	27.2	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 20:58	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 lytical Services				PA 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 19:29	7440-36-0	
Arsenic	0.0019J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:29	7440-38-2	В
Barium	0.068	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 19:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 19:29	7440-41-7	
Boron	1.1	mg/L	0.20	0.043	5	02/23/22 14:19	02/24/22 12:52	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 19:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:29	7440-47-3	
Cobalt	0.0017J	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 19:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1		02/23/22 19:29		
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 19:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1		02/23/22 19:29		
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 19:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1		02/23/22 19:29		
7470 Mercury	Analytical	Method: EPA 7	7470A Prep	aration Met	nod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:28	7439-97-6	
2540C Total Dissolved Solids	•	Method: SM 29 lytical Services		e Corners, G	SA				
Total Dissolved Solids	159	mg/L	10.0	10.0	1		02/14/22 15:19		
300.0 IC Anions 28 Days	•	Method: EPA 3 lytical Services		.1 1993					
Chloride	13.0	mg/L	1.0	0.60	1		02/15/22 06:51	16887-00-6	
Fluoride	0.087J	mg/L	0.10	0.050	1		02/15/22 06:51		
Sulfate	16.3	mg/L	1.0	0.50	1		02/15/22 06:51		



Project: YATES AP-2
Pace Project No.: 92587089

Date: 02/25/2022 01:33 PM

Sample: AP-2-EB-1	Lab ID:	92587089007	Collecte	ed: 02/08/22	18:27	Received: 02/	09/22 10:18 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	Analytical	Method: EPA 6	010D Prep	paration Met	hod: EF	PA 3010A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	βA				
Calcium	ND	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:02	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Prep	paration Met	hod: EF	PA 3005A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	SA.				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 19:35	7440-36-0	
Arsenic	0.0027J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:35	7440-38-2	В
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 19:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 19:35	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 19:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 19:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:35	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 19:35	7440-48-4	
₋ead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 19:35	7439-92-1	
_ithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 19:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 19:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 19:35	7782-49-2	
Γhallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:35	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Prep	paration Met	hod: EF	A 7470A			
•	Pace Anal	ytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:31	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015						
	Pace Anal	ytical Services	- Peachtre	e Corners, C	SA.				
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/14/22 15:19		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0 Rev 2	2.1 1993					
•		ytical Services							
Chloride	ND	mg/L	1.0	0.60	1		02/15/22 07:05	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/22 07:05		
Sulfate	ND	mg/L	1.0	0.50	1		02/15/22 07:05		



Project: YATES AP-2
Pace Project No.: 92587089

Date: 02/25/2022 01:33 PM

Sample: AP-2-EB-2	Lab ID:	92587089008	Collecte	d: 02/09/22	18:45	Received: 02/	10/22 17:00 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	Analytical	Method: EPA 6	010D Prep	paration Met	hod: EF	PA 3010A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	βA				
Calcium	ND	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:40	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Prep	aration Met	hod: EF	PA 3005A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	βA				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 20:11	7440-36-0	
Arsenic	0.0038J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:11	7440-38-2	В
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:11	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 20:11	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 20:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 20:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 20:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 20:11	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 20:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 20:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:11	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Prep	aration Met	nod: EF	'A 7470A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:39	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015						
	Pace Anal	ytical Services	- Peachtre	e Corners, G	SA.				
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/15/22 16:30		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0 Rev 2	.1 1993					
	Pace Anal	ytical Services	- Asheville						
Chloride	ND	mg/L	1.0	0.60	1		02/16/22 12:36	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 12:36		
Sulfate	ND	mg/L	1.0	0.50	1		02/16/22 12:36		



Project: YATES AP-2
Pace Project No.: 92587089

Date: 02/25/2022 01:33 PM

Sample: AP-2-FB-2	Lab ID:	92587089009	Collecte	ed: 02/09/22	2 16:45	Received: 02/	10/22 17:00 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP		Method: EPA 6	S010D Pro	naration Met	hod: FF	ΡΔ 3010Δ			_
OUTOD ATE IOI	-	tical Services				7.30107			
Calcium	ND	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:45	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Prer	paration Met	hod: EF	PA 3005A			
	-	tical Services							
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 20:17	7440-36-0	
Arsenic	0.0038J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:17	7440-38-2	В
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:17	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 20:17	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 20:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 20:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 20:17	7440-48-4	
_ead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 20:17	7439-92-1	
_ithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 20:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 20:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:17	7440-28-0	
7470 Mercury	Analytical I	Method: EPA	7470A Prep	paration Met	hod: EF	PA 7470A			
·	Pace Analy	tical Services	- Peachtre	e Corners, C	€A				
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:42	7439-97-6	
2540C Total Dissolved Solids	Analytical I	Method: SM 2	540C-2015						
	Pace Analy	tical Services	- Peachtre	e Corners, C	S A				
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/15/22 16:30		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Analy	tical Services	- Asheville						
Chloride	ND	mg/L	1.0	0.60	1		02/16/22 12:50	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 12:50	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/16/22 12:50	14808-79-8	



Project: YATES AP-2
Pace Project No.: 92587089

Date: 02/25/2022 01:33 PM

Sample: YGWC-26S	Lab ID:	92587089010	Collecte	ed: 02/10/22	2 09:15	Received: 02/	'11/22 16:45 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME R				1		02/14/22 11:29		
рН	5.31	Std. Units			1		02/14/22 11:29		
6010D ATL ICP	•	Method: EPA 6 lytical Services				PA 3010A			
Calcium	11.6	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 22:04	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 lytical Services				PA 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 20:53	7440-36-0	
Arsenic	0.0032J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:53	7440-38-2	В
Barium	0.027	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:53	7440-39-3	
Beryllium	0.000093J	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 20:53	7440-41-7	
Boron	0.79	mg/L	0.20	0.043	5	02/23/22 14:19	02/24/22 13:10	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 20:53	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1		02/23/22 20:53		
Cobalt	0.0026J	mg/L	0.0050	0.00039	1		02/23/22 20:53		
Lead	ND	mg/L	0.0010	0.00089	1		02/23/22 20:53		
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:19			
Molybdenum	ND	mg/L	0.010	0.00074	1		02/23/22 20:53		
Selenium	ND	mg/L	0.0050	0.0014	1		02/23/22 20:53		
Thallium	ND	mg/L	0.0010	0.00018	1		02/23/22 20:53		
7470 Mercury	Analytical	Method: EPA 7	7470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:44	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
Total Dissolved Solids	168	mg/L	10.0	10.0	1		02/17/22 16:06		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	14.0	mg/L	1.0	0.60	1		02/19/22 03:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 03:43		
Sulfate	86.5	mg/L	1.0	0.50	1		02/19/22 03:43		



Project: YATES AP-2
Pace Project No.: 92587089

Date: 02/25/2022 01:33 PM

Sample: YGWC-26I	Lab ID:	92587089011	Collecte	ed: 02/10/22	2 10:25	Received: 02/	11/22 16:45 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	s - Charlotte						
Performed by	CUSTOME R				1		02/14/22 11:30		
рН	5.84	Std. Units			1		02/14/22 11:30		
6010D ATL ICP	•	Method: EPA lytical Services				PA 3010A			
Calcium	16.4	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 22:09	7440-70-2	
6020 MET ICPMS	•	Method: EPA lytical Services				PA 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 20:59	7440-36-0	
Arsenic	0.0028J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:59	7440-38-2	В
Barium	0.063	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:59	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1		02/23/22 20:59		
Boron	0.79	mg/L	0.20	0.043	5		02/24/22 13:16		
Cadmium	ND	mg/L	0.00050	0.00011	1		02/23/22 20:59		
Chromium	ND	mg/L	0.0050	0.0011	1		02/23/22 20:59		
Cobalt	ND	mg/L	0.0050	0.00039	1		02/23/22 20:59		
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 20:59		
Lithium	0.0086J	mg/L	0.030	0.00073	1	02/23/22 14:19			
Molybdenum	ND	mg/L	0.010	0.00074	1		02/23/22 20:59		
Selenium	0.0042J	mg/L	0.0050	0.0014	1		02/23/22 20:59		
Thallium	ND	mg/L	0.0010	0.00018	1		02/23/22 20:59		
7470 Mercury	Analytical	Method: EPA	7470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	s - Peachtre	e Corners, C	€A				
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:47	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	2540C-2015						
	Pace Ana	lytical Services	s - Peachtre	e Corners, C	βA				
Total Dissolved Solids	207	mg/L	10.0	10.0	1		02/17/22 16:06		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	s - Asheville						
Chloride	15.4	mg/L	1.0	0.60	1		02/19/22 03:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 03:59		
Sulfate	81.8	mg/L	1.0	0.50	1		02/19/22 03:59		



Project: YATES AP-2
Pace Project No.: 92587089

Date: 02/25/2022 01:33 PM

Sample: YGWC-27I	Lab ID:	92587089012	Collecte	ed: 02/10/22	2 11:45	Received: 02/	11/22 16:45 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME R				1		02/14/22 11:30		
рН	6.23	Std. Units			1		02/14/22 11:30		
6010D ATL ICP	•	Method: EPA 6 lytical Services				PA 3010A			
Calcium	27.4	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 22:23	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 lytical Services				PA 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 21:05	7440-36-0	
Arsenic	0.0040J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 21:05	7440-38-2	В
Barium	0.079	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 21:05	7440-39-3	
Beryllium	0.00013J	mg/L	0.00050	0.000054	1		02/23/22 21:05		
Boron	2.5	mg/L	0.20	0.043	5		02/24/22 13:22		
Cadmium	ND	mg/L	0.00050	0.00011	1		02/23/22 21:05		
Chromium	ND	mg/L	0.0050	0.0011	1		02/23/22 21:05		
Cobalt	0.0051	mg/L	0.0050	0.00039	1		02/23/22 21:05		
Lead	ND	mg/L	0.0010	0.00089	1		02/23/22 21:05		
Lithium	0.0072J	mg/L	0.030	0.00073	1	02/23/22 14:19			
Molybdenum	0.0018J	mg/L	0.010	0.00074	1		02/23/22 21:05		
Selenium	ND	mg/L	0.0050	0.0014	1		02/23/22 21:05		
Thallium	ND	mg/L	0.0010	0.00018	1		02/23/22 21:05		
7470 Mercury	Analytical	Method: EPA 7	7470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:50	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Total Dissolved Solids	190	mg/L	10.0	10.0	1		02/17/22 16:06		
300.0 IC Anions 28 Days	•	Method: EPA 3		2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	13.1	mg/L	1.0	0.60	1		02/19/22 04:14	16887-00-6	
Fluoride	0.059J	mg/L	0.10	0.050	1		02/19/22 04:14	16984-48-8	
Sulfate	2.4	mg/L	1.0	0.50	1		02/19/22 04:14	14808-79-8	



Project: YATES AP-2
Pace Project No.: 92587089

QC Batch: 680120 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007,

92587089008, 92587089009, 92587089010, 92587089011, 92587089012

METHOD BLANK: 3558408 Matrix: Water

Associated Lab Samples: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007,

92587089008, 92587089009, 92587089010, 92587089011, 92587089012

Blank Reporting
Result Limit MDL Analyzed Qualifiers

Calcium mg/L ND 1.0 0.12 02/23/22 19:59

LABORATORY CONTROL SAMPLE: 3558409

Date: 02/25/2022 01:33 PM

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558410 3558411

MSD MS 92587089004 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual 10.5 20 Calcium 9.3 1 10.5 117 119 75-125 0 mg/L

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.



Project: YATES AP-2 Pace Project No.: 92587089

Date: 02/25/2022 01:33 PM

QC Batch: 680115 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007,

92587089008, 92587089009, 92587089010, 92587089011, 92587089012

METHOD BLANK: 3558393 Matrix: Water

Associated Lab Samples: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007,

92587089008, 92587089009, 92587089010, 92587089011, 92587089012

_		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/23/22 18:18	
Arsenic	mg/L	ND	0.0050	0.0011	02/23/22 18:18	
Barium	mg/L	ND	0.0050	0.00067	02/23/22 18:18	
Beryllium	mg/L	ND	0.00050	0.000054	02/23/22 18:18	
Boron	mg/L	ND	0.040	0.0086	02/23/22 18:18	
Cadmium	mg/L	ND	0.00050	0.00011	02/23/22 18:18	
Chromium	mg/L	ND	0.0050	0.0011	02/23/22 18:18	
Cobalt	mg/L	ND	0.0050	0.00039	02/23/22 18:18	
Lead	mg/L	ND	0.0010	0.00089	02/23/22 18:18	
Lithium	mg/L	ND	0.030	0.00073	02/23/22 18:18	
Molybdenum	mg/L	ND	0.010	0.00074	02/23/22 18:18	
Selenium	mg/L	ND	0.0050	0.0014	02/23/22 18:18	
Thallium	mg/L	ND	0.0010	0.00018	02/23/22 18:18	

LABORATORY CONTROL SAMP	LE: 35	558394										
			Spike		S	LCS	% R					
Parameter		Units	Conc.	Re	sult	% Rec	Lim	its (Qualifiers			
Antimony		mg/L).1	0.11	10	 7	80-120		_		
Arsenic		mg/L	0).1	0.11	10	6	80-120				
Barium		mg/L	0).1	0.10	10	4	80-120				
Beryllium		mg/L	0).1	0.11	10	6	80-120				
Boron		mg/L		1	1.1	11	1	80-120				
Cadmium		mg/L	0).1	0.10	10	2	80-120				
Chromium		mg/L	0).1	0.10	10	4	80-120				
Cobalt		mg/L	0).1	0.10	10	2	80-120				
Lead		mg/L	0).1	0.099	9	9	80-120				
Lithium		mg/L	0).1	0.11	10	6	80-120				
Molybdenum		mg/L	0).1	0.11	10	7	80-120				
Selenium		mg/L	0).1	0.11	10	5	80-120				
Thallium		mg/L	0).1	0.10	10	1	80-120				
MATRIX SPIKE & MATRIX SPIKE	DUPLIC	CATE: 3558			3558396	<u> </u>						
			MS	MSD								
	9	2587089002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	105	108	75-125	3	20	

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



Project: YATES AP-2
Pace Project No.: 92587089

Date: 02/25/2022 01:33 PM

MATRIX SPIKE & MATRIX	SPIKE DUPI	LICATE: 3558395			3558396							
Parameter	Units	92587089002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.0021J	0.1	0.1	0.10	0.11	103	105	75-125	2	20	
Barium	mg/L	0.083	0.1	0.1	0.18	0.18	92	100	75-125	4	20	
Beryllium	mg/L	ND	0.1	0.1	0.11	0.10	105	102	75-125	3	20	
Boron	mg/L	2.4	1	1	3.4	3.6	100	115	75-125	4	20	
Cadmium	mg/L	0.00033J	0.1	0.1	0.10	0.10	101	102	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.11	104	105	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20	
Lithium	mg/L	0.0076J	0.1	0.1	0.11	0.11	103	103	75-125	0	20	
Molybdenum	mg/L	0.0011J	0.1	0.1	0.11	0.11	107	109	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.097	97	97	75-125	1	20	

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



Project: YATES AP-2 Pace Project No.: 92587089

QC Batch: 678406 Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007,

92587089008, 92587089009, 92587089010, 92587089011, 92587089012

METHOD BLANK: 3550211 Matrix: Water

Associated Lab Samples: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007,

92587089008, 92587089009, 92587089010, 92587089011, 92587089012

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Mercury mg/L ND 0.00020 0.00013 02/16/22 14:36

LABORATORY CONTROL SAMPLE: 3550212

Date: 02/25/2022 01:33 PM

LCS LCS % Rec Spike Units Result % Rec Limits Qualifiers Parameter Conc. 86 Mercury mg/L 0.0025 0.0021 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3550213 3550214

MSD MS 92587089001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual ND 0.0025 20 M1 Mercury 0.0025 0.0019 0.0018 77 74 75-125 mg/L

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.



Project: YATES AP-2 Pace Project No.: 92587089

QC Batch: 678110 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: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007

METHOD BLANK: 3548928 Matrix: Water

Associated Lab Samples: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007

Blank Reporting
Result Limit

ParameterUnitsResultLimitMDLAnalyzedQualifiersTotal Dissolved Solidsmg/LND10.010.002/14/22 15:13

LABORATORY CONTROL SAMPLE: 3548929

Spike LCS LCS % Rec Conc. % Rec Limits Qualifiers Parameter Units Result **Total Dissolved Solids** 379 95 80-120 mg/L

SAMPLE DUPLICATE: 3548930

Parameter Units Parameter Units Parameter Units Parameter Units Parameter Units Parameter Parameter Units Parameter Result Parameter Result Result RPD Qualifiers Parameter Parameter RPD Qualifiers Parameter Parameter RPD Qualifiers Parameter
SAMPLE DUPLICATE: 3548931

Date: 02/25/2022 01:33 PM

Parameter Units Pesult Result RPD Max Result RPD Qualifiers

Total Dissolved Solids mg/L ND ND 25

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.



Project: YATES AP-2
Pace Project No.: 92587089

QC Batch: 678370

QC Batch Method: SM 2540C-2015

Analysis Method: SM 2540C-2015

Analysis Description: 2540C Total Dissolved Solids

Laboratory:

Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587089008, 92587089009

METHOD BLANK: 3550019 Matrix: Water

Associated Lab Samples: 92587089008, 92587089009

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Total Dissolved Solids mg/L ND 10.0 10.0 02/15/22 16:29

LABORATORY CONTROL SAMPLE: 3550020

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units **Total Dissolved Solids** mg/L 394 98 80-120

SAMPLE DUPLICATE: 3550021

92587705001 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers 36.0 **Total Dissolved Solids** 3 mg/L 37.0 25

SAMPLE DUPLICATE: 3550022

Date: 02/25/2022 01:33 PM

ParameterUnits92587091011 ResultDup ResultMax ResultMax ResultTotal Dissolved Solidsmg/LNDND25

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.



Project: YATES AP-2 Pace Project No.: 92587089

QC Batch: 679091 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: 92587089010, 92587089011, 92587089012

METHOD BLANK: 3553375 Matrix: Water

Associated Lab Samples: 92587089010, 92587089011, 92587089012

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Total Dissolved Solids mg/L ND 10.0 10.0 02/17/22 16:05

LABORATORY CONTROL SAMPLE: 3553376

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units **Total Dissolved Solids** 400 374 94 80-120 mg/L

SAMPLE DUPLICATE: 3553377

92587319023 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers 299 **Total Dissolved Solids** 0 mg/L 300 25

SAMPLE DUPLICATE: 3553378

Date: 02/25/2022 01:33 PM

92587089012 Dup Max RPD RPD Parameter Units Result Result Qualifiers Total Dissolved Solids 190 2 mg/L 186 25

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.



Project: YATES AP-2
Pace Project No.: 92587089

LABORATORY CONTROL SAMPLE: 3540504

Date: 02/25/2022 01:33 PM

QC Batch: 678235 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: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007

METHOD BLANK: 3549593 Matrix: Water

Associated Lab Samples: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND ND	1.0	0.60	02/15/22 01:58	
Fluoride	mg/L	ND	0.10	0.050	02/15/22 01:58	
Sulfate	mg/L	ND	1.0	0.50	02/15/22 01:58	

LABORATORY CONTROL SAMPLE:	3549594					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Chloride	mg/L	50	51.8	104	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	51.0	102	90-110	

MATRIX SPIKE & MATRIX SP		3549596										
			MS	MSD								
		92585602018	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	10.2	50	50	64.0	63.6	108	107	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	106	105	90-110	1	10	
Sulfate	mg/L	20.0	50	50	73.7	73.7	107	107	90-110	0	10	

MATRIX SPIKE & MATRIX SP		3549598										
			MS	MSD								
		92587089005	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	ND	50	50	52.3	53.6	105	107	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	104	107	90-110	3	10	
Sulfate	mg/L	ND	50	50	52.2	53.5	104	107	90-110	2	10	

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



Project: YATES AP-2 Pace Project No.: 92587089

QC Batch: 678537

QC Batch Method:

EPA 300.0 Rev 2.1 1993

Analysis Method:

EPA 300.0 Rev 2.1 1993

Analysis Description:

Laboratory:

300.0 IC Anions
Pace Analytical Services - Asheville

Associated Lab Samples: 92587089008, 92587089009

METHOD BLANK: 3551059 Associated Lab Samples: 9

Date: 02/25/2022 01:33 PM

Matrix: Water

Reporting

92587089008, 92587089009

Blank
Parameter Linits Result

MDL Parameter Units Result Limit Analyzed Qualifiers Chloride ND 1.0 0.60 02/16/22 09:35 mg/L Fluoride ND 0.10 0.050 02/16/22 09:35 mg/L Sulfate ND 02/16/22 09:35 mg/L 1.0 0.50

LABORATORY CONTROL SAMPLE: 3551060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.8	102	90-110	
Fluoride	mg/L	2.5	2.4	95	90-110	
Sulfate	mg/L	50	50.3	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551061 3551062 MS MSD MSD 92585949014 Spike Spike MS MS MSD % Rec Max Parameter Conc. Result % Rec % Rec **RPD** RPD Qual Units Conc. Result Limits Result Chloride ND 50 50 62.2 59.5 124 119 90-110 4 10 M1 mg/L Fluoride ND 2.5 2.5 3.0 2.9 120 114 90-110 5 10 M1 mg/L Sulfate mg/L ND 50 50 62.0 59.6 124 119 90-110 10 M1 4

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551063 3551064 MS MSD 92587091007 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits **RPD** RPD Qual Chloride mg/L 1.0 50 50 63.8 61.5 126 121 90-110 4 10 M1 Fluoride mg/L 0.057J 2.5 2.5 3.1 3.0 123 119 90-110 3 10 M1 Sulfate mg/L 9.3 50 50 71.8 69.6 125 121 90-110 3 10 M1

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



Project: YATES AP-2
Pace Project No.: 92587089

Date: 02/25/2022 01:33 PM

QC Batch: 679328 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: 92587089010, 92587089011, 92587089012

METHOD BLANK: 3554532 Matrix: Water

Associated Lab Samples: 92587089010, 92587089011, 92587089012

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/18/22 20:56	
Fluoride	mg/L	ND	0.10	0.050	02/18/22 20:56	
Sulfate	mg/L	ND	1.0	0.50	02/18/22 20:56	

LABORATORY CONTROL SAMPLE: 3554533 Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Chloride 50 mg/L 49.6 99 90-110 Fluoride 2.5 96 mg/L 90-110 2.4 Sulfate 48.9 98 mg/L 50 90-110

MATRIX SPIKE & MATRIX SPI		3554535										
		92588782001	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
	Ullits		Conc.	COIIC.	Nesuit	Nesuit	/0 KEC	/0 KeC	LIIIIII	KFD	MFD	Quai
Chloride	mg/L	4.2	50	50	54.3	55.2	100	102	90-110	2	10	
Fluoride	mg/L	0.14	2.5	2.5	2.6	2.7	99	102	90-110	2	10	
Sulfate	mg/L	3.1	50	50	53.1	54.1	100	102	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554536						3554537							
			MS	MSD									
		92587881007	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max		
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual	
Chloride	mg/L	8.9	50	50	59.0	59.3	100	101	90-110	0	10		
Fluoride	mg/L	0.071J	2.5	2.5	2.6	2.6	100	101	90-110	1	10		
Sulfate	mg/L	70.0	50	50	113	113	87	87	90-110	0	10	M1	

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



QUALIFIERS

Project: YATES AP-2 Pace Project No.: 92587089

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

Date: 02/25/2022 01:33 PM

B Analyte was detected in the associated method blank.

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



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AP-2
Pace Project No.: 92587089

Date: 02/25/2022 01:33 PM

_ab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
92587089001	YGWC-28S				
2587089002	YGWC-28I				
2587089004	YGWC-29I				
2587089006	YGWC-27S				
2587089010	YGWC-26S				
2587089011	YGWC-26I				
2587089012	YGWC-27I				
2587089001	YGWC-28S	EPA 3010A	680120	EPA 6010D	680402
2587089002	YGWC-28I	EPA 3010A	680120	EPA 6010D	680402
2587089003	AP-2-DUP-1	EPA 3010A	680120	EPA 6010D	680402
2587089004	YGWC-29I	EPA 3010A	680120	EPA 6010D	680402
2587089005	AP-2-FB-1	EPA 3010A	680120	EPA 6010D	680402
2587089006	YGWC-27S	EPA 3010A	680120	EPA 6010D	680402
2587089007	AP-2-EB-1	EPA 3010A	680120	EPA 6010D	680402
2587089008	AP-2-EB-2	EPA 3010A	680120	EPA 6010D	680402
2587089009	AP-2-FB-2	EPA 3010A	680120	EPA 6010D	680402
2587089010	YGWC-26S	EPA 3010A	680120	EPA 6010D	680402
2587089011	YGWC-26I	EPA 3010A	680120	EPA 6010D	680402
2587089012	YGWC-27I	EPA 3010A	680120	EPA 6010D	680402
2587089001	YGWC-28S	EPA 3005A	680115	EPA 6020B	680441
2587089002	YGWC-28I	EPA 3005A	680115	EPA 6020B	680441
2587089003	AP-2-DUP-1	EPA 3005A	680115	EPA 6020B	680441
2587089004	YGWC-29I	EPA 3005A	680115	EPA 6020B	680441
587089005	AP-2-FB-1	EPA 3005A	680115	EPA 6020B	680441
2587089006	YGWC-27S	EPA 3005A	680115	EPA 6020B	680441
587089007	AP-2-EB-1	EPA 3005A	680115	EPA 6020B	680441
2587089008	AP-2-EB-2	EPA 3005A	680115	EPA 6020B	680441
2587089009	AP-2-FB-2	EPA 3005A	680115	EPA 6020B	680441
2587089010	YGWC-26S	EPA 3005A	680115	EPA 6020B	680441
2587089011	YGWC-26I	EPA 3005A	680115	EPA 6020B	680441
2587089012	YGWC-27I	EPA 3005A	680115	EPA 6020B	680441
2587089001	YGWC-28S	EPA 7470A	678406	EPA 7470A	678665
2587089002	YGWC-28I	EPA 7470A	678406	EPA 7470A	678665
2587089003	AP-2-DUP-1	EPA 7470A	678406	EPA 7470A	678665
2587089004	YGWC-29I	EPA 7470A	678406	EPA 7470A	678665
2587089005	AP-2-FB-1	EPA 7470A	678406	EPA 7470A	678665
2587089006	YGWC-27S	EPA 7470A	678406	EPA 7470A	678665
2587089007	AP-2-EB-1	EPA 7470A	678406	EPA 7470A	678665
2587089008	AP-2-EB-2	EPA 7470A	678406	EPA 7470A	678665
587089009	AP-2-FB-2	EPA 7470A	678406	EPA 7470A	678665
587089010	YGWC-26S	EPA 7470A	678406	EPA 7470A	678665
2587089011	YGWC-26I	EPA 7470A	678406	EPA 7470A	678665
2587089012	YGWC-27I	EPA 7470A	678406	EPA 7470A	678665
2587089001	YGWC-28S	SM 2540C-2015	678110		
2587089002	YGWC-28I	SM 2540C-2015	678110		
2587089003	AP-2-DUP-1	SM 2540C-2015	678110		
2587089004	YGWC-29I	SM 2540C-2015	678110		



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AP-2
Pace Project No.: 92587089

Date: 02/25/2022 01:33 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587089005	AP-2-FB-1	SM 2540C-2015	678110		
92587089006	YGWC-27S	SM 2540C-2015	678110		
92587089007	AP-2-EB-1	SM 2540C-2015	678110		
92587089008	AP-2-EB-2	SM 2540C-2015	678370		
92587089009	AP-2-FB-2	SM 2540C-2015	678370		
92587089010	YGWC-26S	SM 2540C-2015	679091		
92587089011	YGWC-26I	SM 2540C-2015	679091		
92587089012	YGWC-27I	SM 2540C-2015	679091		
92587089001	YGWC-28S	EPA 300.0 Rev 2.1 1993	678235		
92587089002	YGWC-28I	EPA 300.0 Rev 2.1 1993	678235		
92587089003	AP-2-DUP-1	EPA 300.0 Rev 2.1 1993	678235		
92587089004	YGWC-29I	EPA 300.0 Rev 2.1 1993	678235		
92587089005	AP-2-FB-1	EPA 300.0 Rev 2.1 1993	678235		
92587089006	YGWC-27S	EPA 300.0 Rev 2.1 1993	678235		
92587089007	AP-2-EB-1	EPA 300.0 Rev 2.1 1993	678235		
92587089008	AP-2-EB-2	EPA 300.0 Rev 2.1 1993	678537		
92587089009	AP-2-FB-2	EPA 300.0 Rev 2.1 1993	678537		
92587089010	YGWC-26S	EPA 300.0 Rev 2.1 1993	679328		
92587089011	YGWC-26I	EPA 300.0 Rev 2.1 1993	679328		
92587089012	YGWC-27I	EPA 300.0 Rev 2.1 1993	679328		

Pace Analytical*

Project Manager SRF Review:

Document Name:

Sample Condition Upon Receipt (SCUR)

Document No.: F-CAR-CS-033-Rev.08 Document Revised: November 15, 2021

Page 1 of 2

Issuing Authority: Pace Carolinas Quality Office

Asheville Eden Greenwood H	luntersville [Raleigh	
Courier: Fed Ex UPS Pace	USPS	Pr □Clier	WO#: 92587089
Custody Seal Present? Yes Mo Seals Inta	act? Yes	□No	Date/Initials Person Examining Contents: 2/9/22
Packing Material: Bubble Wrap Bubble Thermometer: Gooler Temp: Correction Factor: Cooler Temp Corrected (°C): USDA Regulated Soil (N/A, water sample) Did samples originate in a quarantine zone within the United S	Type of Ice:	∃Wet □Blu	Temp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling process has begun
Yes No		oc teneer maps	including Hawaii and Puerto Rico)? Yes No Comments/Discrepancy:
	-/-		
Chain of Custody Present?	UYes □No		1.
Samples Arrived within Hold Time?	Dives ONO		2.
Short Hold Time Analysis (<72 hr.)?	□Yes □No		3. 4.
Rush Turn Around Time Requested?			
Sufficient Volume?	☐Yes ☐No		5. 6.
Correct Containers Used? -Pace Containers Used?	Pres □No	□N/A □N/A	0.
Containers Intact?	□ves □No	□N/A	7.
Dissolved analysis: Samples Field Filtered?	☐Yes ☐No	BN/A	8.
Sample Labels Match COC?	☐Yes ☐No	□N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	<u>~</u>		
Headspace in VOA Vials (>5-6mm)?	□Yes □No		10.
Trip Blank Present?	□Yes □No	N/A	11.
Trip Blank Custody Seals Present? COMMENTS/SAMPLE DISCREPANCY	Yes No	N/A	Field Data Required? ☐Yes ☐No
CLIENT NOTIFICATION/RESOLUTION	2	Manage of the second se	Lot ID of split containers:
Person contacted:		Date/Time	e:
Project Manager SCURF Review:			Date:
Project Manager SRF Review:			Date:



Document Name:

Sample Condition Upon Receipt (SCUR)

Document No.: F-CAR-CS-033-Rev.08 Document Revised: November 15, 2021 Page 2 of 2

Issuing Authority: Pace Carolinas Quality Office

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

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

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

Project # WO#: 925870

PM: NMG

Due Date: 02/23/22

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) (CI-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP48-125 mL Plastic NaOH (pH > 12) (CI-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG15-1 liter Amber H2SO4 (pH < 2)	AG35-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterije Plastic (N/A lab)	0 P/N	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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		pH Ac	ljustment Log for Pres	erved Samples		
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #
·						

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (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.

	App IV: Beryllium Lithium 7040A:	App III I	Anions :		12	11	10	9	8	7	6	5	4	3 -	2		ITEM#			Request	Phone:	Email To:	Address:	Company:	Section A Required
	App IV: Metats 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Berylium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molyddenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	App III Metals: Boron 6020B, Ca 6010D	Anions Suite 300.0 (Ct. F., Sulfate)	ADDITIONAL COMMENTS	AP2FB-2 TY	AP-2-FB-1 ~	AP-2-28-2 - 1	ABGER - *	YGWC-29I	AP-2-DUP-1	YGWC-28I	YGWC-28S	*GWC-271 ~~	XGWC-278-1-5-	YOMO 201	YOMC285 www	SAMPLE ID One Character per box. (A-Z, 0-9 i , .) Sample ids must be unique			Requested Due Date:	Fax		1	GA Power	Section A Required Citent Information:
	Barium (Ba), at (Co), Lead (Pb),		17														Water Water WW Water Water Water WW Water WW WATER WW WW Product St. Coll Coll Coll Coll Coll Coll Coll Col			Project Number:	Project Name: F	Purchase	Сору То:	Report To:	Section B Required Project Information:
	1	R	1	RELINGUISHED BY / AFFILIATION	5	1	WT	W	WT	TW	wı	WT	TW	WT	*	\$	MATRIX CODE (see valid cod		-	umber.	ame:	Order		35	Projec
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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.

		Beryllium 17040A:	App III	Anions		12	=	10	9	8	7	6	5	4	3	2	1		ITEM#	•	7	Canbay	Phone:	Email To:		Address:	Compan	Required
		App IV: Metals 6020bt: Antimory (Sb), Arsenic (As), Berlum (Ba), Beryflum (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	App III Metals: Boron 6020B, Ca 6010D	Anions Suite 300.0 (Cl. F, Sulfate)	ADDITIONAL COMMENTS	4P-2-FB-2	AP-24-6-1	AP-2-EB-2	AP-2-EB-1	YGWC-Z9T-	AP-Z-DUP-1	YGWC-Z8T-	YGWC-28S	¥6WC-271-	YGWC-27S	YGWC-261-	Yewc-26S		SAMPLE ID One Character per box. (A-Z, 0-9/,-) Sample ids must be unique			nequested Due Date:	Fax			-1	GA Power	Required Client Information:
		tom (Ba), Co), Lead (Pb),	1	1															Writer War WW Product P SusSade St. Or Whe WP WP Offer Thace 75	MATHICK COOE		Project Number:	Project Name:	Purchase Order #:	Copy in:	Conv To:	required Project Information:	Baculand I
			Do	Sec	RES	3	1	WT	W,	3	WT	5	*	*	1	*	*	٨	MATRIX CODE (see valid oo		+	umber	ame:	Order	1		rioje	,
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			1	2	RELINQUISHED BY / AFFILIATION				12/3/2						2/8/2			DATE	START				Plant Yates AP-2		Arcadis Collacts	Amadia Contacts	ALL STORE	
SIG	SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER:		HOD.	Ber	VFFILLATIO				128						1737	L		TIME	i	сощество			AP-2		8			
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March 17, 2022

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

RE: Project: YATES AP-2 RAD

Pace Project No.: 92587078

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2022 and February 11, 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

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

Sincerely,

Micole D'oles

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Anna Bottum, ERM
Andrea Brazell, ERM
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Lacy Smith, ERM
Samantha Thomas
Caitlin Tillema, ERM

Albert Zumbuhl, Arcadis



(770)734-4200



CERTIFICATIONS

Project: YATES AP-2 RAD

Pace Project No.: 92587078

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 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

Missouri Certification #: 235

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



SAMPLE SUMMARY

Project: YATES AP-2 RAD

Pace Project No.: 92587078

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92587078001	YGWC-28S	Water	02/08/22 15:21	02/09/22 10:18
92587078002	YGWC-28I	Water	02/08/22 16:17	02/09/22 10:18
92587078003	AP-2-DUP-1	Water	02/08/22 00:00	02/09/22 10:18
92587078004	YGWC-29I	Water	02/08/22 14:02	02/09/22 10:18
92587078005	AP-2-FB-1	Water	02/08/22 15:35	02/09/22 10:18
92587078006	YGWC-27S	Water	02/08/22 17:37	02/09/22 10:18
92587078007	AP-2-EB-1	Water	02/08/22 18:27	02/09/22 10:18
92587078008	AP-2-EB-2	Water	02/09/22 18:45	02/10/22 17:00
92587078009	AP-2-FB-2	Water	02/09/22 16:45	02/10/22 17:00
92587078010	YGWC-26S	Water	02/10/22 09:15	02/11/22 16:45
92587078011	YGWC-26I	Water	02/10/22 10:25	02/11/22 16:45
92587078012	YGWC-27I	Water	02/10/22 11:45	02/11/22 16:45



SAMPLE ANALYTE COUNT

Project: YATES AP-2 RAD

Pace Project No.: 92587078

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92587078001	YGWC-28S	EPA 9315		1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078002	YGWC-28I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078003	AP-2-DUP-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078004	YGWC-29I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078005	AP-2-FB-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078006	YGWC-27S	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078007	AP-2-EB-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078008	AP-2-EB-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078009	AP-2-FB-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078010	YGWC-26S	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078011	YGWC-26I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078012	YGWC-27I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA





SAMPLE ANALYTE COUNT

Project: YATES AP-2 RAD

Pace Project No.: 92587078

Lab ID Sample ID Method Analysts Reported Laboratory

PASI-PA = Pace Analytical Services - Greensburg



SUMMARY OF DETECTION

Project: YATES AP-2 RAD

Pace Project No.: 92587078

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587078001	YGWC-28S					
EPA 9315	Radium-226	0.273 ±	pCi/L		03/10/22 08:55	
		0.141 (0.182)				
		C:84% T:NA				
EPA 9320	Radium-228	0.691 ±	pCi/L		03/07/22 11:51	
		0.351 (0.604)				
		C:78%				
		T:90%	0.11			
Total Radium Calculation	Total Radium	0.964 ± 0.492	pCi/L		03/14/22 21:54	
		(0.786)				
2587078002	YGWC-28I					
EPA 9315	Radium-226	0.0326 ±	pCi/L		03/10/22 08:55	
		0.0715	·			
		(0.169) C:92% T:NA				
EPA 9320	Radium-228	1.04 ±	pCi/L		03/07/22 15:12	
		0.575	,			
		(1.05) C:80%				
		T:87%				
Total Radium Calculation	Total Radium	1.07 ±	pCi/L		03/14/22 21:54	
		0.647				
2587078003	AP-2-DUP-1	(1.22)				
		0.0621 ±	~C:/I		02/40/22 00:20	
EPA 9315	Radium-226	0.0021 ±	pCi/L		03/10/22 09:20	
		(0.173)				
	D. II. 222	C:94% T:NA	0.11			
EPA 9320	Radium-228	0.334 ± 0.282	pCi/L		03/07/22 11:48	
		(0.556)				
		C:74%				
Total Radium Calculation	Total Radium	T:89% 0.396 ±	pCi/L		03/14/22 21:54	
Total Nadidili Galculation	Total Nadiditi	0.365	poi/L		05/14/22 21.54	
		(0.729)				
2587078004	YGWC-29I					
EPA 9315	Radium-226	0.0450 ±	pCi/L		03/10/22 09:21	
		0.0839 (0.192)				
		C:93% T:NA				
EPA 9320	Radium-228	0.0585 ±	pCi/L		03/07/22 11:48	
		0.262 (0.600)				
		(0.600) C:77%				
		T:88%				
Total Radium Calculation	Total Radium	0.104 ± 0.346	pCi/L		03/14/22 21:54	
		(0.792)				

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AP-2 RAD

Pace Project No.: 92587078

Lab Sample ID	Client Sample ID					
Method	Parameters —	Result	Units	Report Limit	Analyzed	Qualifiers
92587078005	AP-2-FB-1					
EPA 9315	Radium-226	0.0348 ± 0.0741 (0.174)	pCi/L	03	3/10/22 09:21	
EPA 9320	Radium-228	C:95% T:NÁ 0.212 ± 0.290 (0.621) C:81%	pCi/L	03	3/07/22 11:48	
Total Radium Calculation	Total Radium	T:94% 0.247 ± 0.364 (0.795)	pCi/L	03	3/14/22 21:54	
92587078006	YGWC-27S	(3 2 2 7)				
EPA 9315	Radium-226	0.102 ± 0.108 (0.219)	pCi/L	03	3/10/22 09:21	
EPA 9320	Radium-228	C:96% T:NA 0.679 ± 0.475 (0.941) C:78%	pCi/L	03	3/07/22 11:54	
Total Radium Calculation	Total Radium	T:87% 0.781 ± 0.583 (1.16)	pCi/L	03	3/14/22 21:54	
92587078007	AP-2-EB-1					
EPA 9315	Radium-226	0.0328 ± 0.0804 (0.192)	pCi/L	03	3/10/22 09:21	
EPA 9320	Radium-228	C:93% T:NA -0.0965 ± 0.417 (0.969) C:78%	pCi/L	03	3/07/22 11:54	
Total Radium Calculation	Total Radium	T:88% 0.0328 ± 0.497 (1.16)	pCi/L	03	3/14/22 21:54	
2587078008	AP-2-EB-2					
EPA 9315	Radium-226	0.0200 ± 0.0677 (0.170)	pCi/L	03	3/11/22 07:49	
EPA 9320	Radium-228	C:99% T:NA 0.492 ± 0.327 (0.614) C:79%	pCi/L	03	3/04/22 14:05	
Total Radium Calculation	Total Radium	T:90% 0.512 ± 0.395 (0.784)	pCi/L	03	3/14/22 21:54	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AP-2 RAD

Pace Project No.: 92587078

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587078009	AP-2-FB-2					
EPA 9315	Radium-226	0.0502 ± 0.0688 (0.144)	pCi/L		03/11/22 07:50	
EPA 9320	Radium-228	C:97% T:NA -0.122 ± 0.281 (0.689) C:77%	pCi/L		03/04/22 14:05	
Total Radium Calculation	Total Radium	T:88% 0.0502 ± 0.350 (0.833)	pCi/L		03/14/22 21:54	
2587078010	YGWC-26S					
EPA 9315	Radium-226	0.0338 ± 0.0890 (0.215) C:99% T:NA	pCi/L		03/08/22 08:27	
EPA 9320	Radium-228	0.397 ± 0.385 (0.787) C:94% T:88%	pCi/L		03/07/22 18:22	
Total Radium Calculation	Total Radium	0.431 ± 0.474 (1.00)	pCi/L		03/13/22 14:44	
92587078011	YGWC-26I					
EPA 9315	Radium-226	0.149 ± 0.125 (0.232) C:101% T:NA	pCi/L		03/08/22 08:27	
EPA 9320	Radium-228	-0.127 ± 0.359 (0.876) C:87% T:88%	pCi/L		03/07/22 18:22	
Total Radium Calculation	Total Radium	0.149 ± 0.484 (1.11)	pCi/L		03/13/22 14:44	
92587078012	YGWC-27I					
EPA 9315	Radium-226	-0.0234 ± 0.104 (0.288)	pCi/L		03/08/22 08:28	
EPA 9320	Radium-228	C:93% T:NA 1.23 ± 0.543 (0.873) C:85% T:84%	pCi/L		03/07/22 18:23	
Total Radium Calculation	Total Radium	1.23 ± 0.647 (1.16)	pCi/L		03/13/22 14:44	

REPORT OF LABORATORY ANALYSIS

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Project: YATES AP-2 RAD

Pace Project No.: 92587078

Sample: YGWC-28S PWS:	Lab ID: 9258707 Site ID:	8001 Collected: 02/08/22 15:21 Sample Type:	Received:	02/09/22 10:18	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.273 ± 0.141 (0.182) C:84% T:NA	pCi/L	03/10/22 08:55	5 13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	0.691 ± 0.351 (0.604) C:78% T:90%	pCi/L	03/07/22 11:51	15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	0.964 ± 0.492 (0.786)	pCi/L	03/14/22 21:54	7440-14-4	



Project: YATES AP-2 RAD

Pace Project No.: 92587078

Sample: YGWC-28I PWS:	Lab ID: 9258 Site ID:	7078002 Collected: 02/08/22 16:17 Sample Type:	Received:	02/09/22 10:18	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0326 ± 0.0715 (0.169) C:92% T:NA	pCi/L	03/10/22 08:5	5 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	1.04 ± 0.575 (1.05) C:80% T:87%	pCi/L	03/07/22 15:12	2 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	1.07 ± 0.647 (1.22)	pCi/L	03/14/22 21:54	4 7440-14-4	



Project: YATES AP-2 RAD

Pace Project No.: 92587078

Sample: AP-2-DUP-1 PWS:	Lab ID: 9258 Site ID:	7078003 Collected: 02/08/22 00:00 Sample Type:	Received:	02/09/22 10:18	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0621 ± 0.0828 (0.173) C:94% T:NA	pCi/L	03/10/22 09:20	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.334 ± 0.282 (0.556) C:74% T:89%	pCi/L	03/07/22 11:48	3 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.396 ± 0.365 (0.729)	pCi/L	03/14/22 21:54	4 7440-14-4	



Project: YATES AP-2 RAD

Pace Project No.: 92587078

Sample: YGWC-29I PWS:	Lab ID: 9258 Site ID:	7078004 Collected: 02/08/22 14:02 Sample Type:	Received:	02/09/22 10:18	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0450 ± 0.0839 (0.192) C:93% T:NA	pCi/L	03/10/22 09:2	1 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.0585 ± 0.262 (0.600) C:77% T:88%	pCi/L	03/07/22 11:48	3 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.104 ± 0.346 (0.792)	pCi/L	03/14/22 21:54	4 7440-14-4	



Project: YATES AP-2 RAD

Pace Project No.: 92587078

Sample: AP-2-FB-1 PWS:	Lab ID: 925870 Site ID:	78005 Collected: 02/08/22 15:35 Sample Type:	Received:	02/09/22 10:18	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	ervices - Greensburg				
Radium-226	EPA 9315	0.0348 ± 0.0741 (0.174) C:95% T:NA	pCi/L	03/10/22 09:21	13982-63-3	
	Pace Analytical Se	ervices - Greensburg				
Radium-228	EPA 9320	0.212 ± 0.290 (0.621) C:81% T:94%	pCi/L	03/07/22 11:48	15262-20-1	
	Pace Analytical Se	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.247 ± 0.364 (0.795)	pCi/L	03/14/22 21:54	7440-14-4	



Project: YATES AP-2 RAD

Pace Project No.: 92587078

Sample: YGWC-27S PWS:	Lab ID: 92587 Site ID:	7078006 Collected: 02/08/22 17:37 Sample Type:	Received:	02/09/22 10:18	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg				
Radium-226	EPA 9315	0.102 ± 0.108 (0.219) C:96% T:NA	pCi/L	03/10/22 09:2	1 13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.679 ± 0.475 (0.941) C:78% T:87%	pCi/L	03/07/22 11:54	1 15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.781 ± 0.583 (1.16)	pCi/L	03/14/22 21:54	4 7440-14-4	



Project: YATES AP-2 RAD

Pace Project No.: 92587078

Sample: AP-2-EB-1 PWS:	Lab ID: 92587 Site ID:	7078007 Collected: 02/08/22 18:27 Sample Type:	Received:	02/09/22 10:18	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg				
Radium-226	EPA 9315	0.0328 ± 0.0804 (0.192) C:93% T:NA	pCi/L	03/10/22 09:2	1 13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	-0.0965 ± 0.417 (0.969) C:78% T:88%	pCi/L	03/07/22 11:54	1 15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.0328 ± 0.497 (1.16)	pCi/L	03/14/22 21:54	4 7440-14-4	



Project: YATES AP-2 RAD

Pace Project No.: 92587078

Sample: AP-2-EB-2 PWS:	Lab ID: 9258' Site ID:	7078008 Collected: 02/09/22 18:45 Sample Type:	Received:	02/10/22 17:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0200 ± 0.0677 (0.170) C:99% T:NA	pCi/L	03/11/22 07:49	9 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.492 ± 0.327 (0.614) C:79% T:90%	pCi/L	03/04/22 14:0	5 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.512 ± 0.395 (0.784)	pCi/L	03/14/22 21:5	4 7440-14-4	



Project: YATES AP-2 RAD

Pace Project No.: 92587078

Sample: AP-2-FB-2 PWS:	Lab ID: 92587 Site ID:	'078009 Collected: 02/09/22 16:45 Sample Type:	Received:	02/10/22 17:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg				
Radium-226	EPA 9315	0.0502 ± 0.0688 (0.144) C:97% T:NA	pCi/L	03/11/22 07:50	13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	-0.122 ± 0.281 (0.689) C:77% T:88%	pCi/L	03/04/22 14:05	5 15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.0502 ± 0.350 (0.833)	pCi/L	03/14/22 21:54	7440-14-4	



Project: YATES AP-2 RAD

Pace Project No.: 92587078

Sample: YGWC-26S PWS:	Lab ID: 925870 Site ID:	78010 Collected: 02/10/22 09:15 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	ervices - Greensburg				
Radium-226	EPA 9315	0.0338 ± 0.0890 (0.215) C:99% T:NA	pCi/L	03/08/22 08:27	7 13982-63-3	
	Pace Analytical Se	ervices - Greensburg				
Radium-228	EPA 9320	0.397 ± 0.385 (0.787) C:94% T:88%	pCi/L	03/07/22 18:22	2 15262-20-1	
	Pace Analytical Se	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.431 ± 0.474 (1.00)	pCi/L	03/13/22 14:44	4 7440-14-4	



Project: YATES AP-2 RAD

Pace Project No.: 92587078

Sample: YGWC-26I PWS:	Lab ID: 9258 Site ID:	7078011 Collected: 02/10/22 10:25 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.149 ± 0.125 (0.232) C:101% T:NA	pCi/L	03/08/22 08:2	7 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	-0.127 ± 0.359 (0.876) C:87% T:88%	pCi/L	03/07/22 18:2	2 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.149 ± 0.484 (1.11)	pCi/L	03/13/22 14:4	4 7440-14-4	



Project: YATES AP-2 RAD

Pace Project No.: 92587078

Sample: YGWC-27I PWS:	Lab ID: 9258 Site ID:	7078012 Collected: 02/10/22 11:45 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	-0.0234 ± 0.104 (0.288) C:93% T:NA	pCi/L	03/08/22 08:28	3 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	1.23 ± 0.543 (0.873) C:85% T:84%	pCi/L	03/07/22 18:23	3 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	1.23 ± 0.647 (1.16)	pCi/L	03/13/22 14:44	4 7440-14-4	



Project: YATES AP-2 RAD

Pace Project No.: 92587078

QC Batch: 485935 Analysis Method: EPA 9315

QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587078001, 92587078002, 92587078003, 92587078004, 92587078005, 92587078006, 92587078007,

92587078008, 92587078009

METHOD BLANK: 2349823 Matrix: Water

Associated Lab Samples: 92587078001, 92587078002, 92587078003, 92587078004, 92587078005, 92587078006, 92587078007,

92587078008, 92587078009

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-226
 0.0233 ± 0.0709 (0.175) C:97% T:NA
 pCi/L
 03/10/22 08:55

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.



Project: YATES AP-2 RAD

Pace Project No.: 92587078

QC Batch: 486611 Analysis Method:

QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

EPA 9315

Associated Lab Samples: 92587078010, 92587078011, 92587078012

METHOD BLANK: 2353259 Matrix: Water

Associated Lab Samples: 92587078010, 92587078011, 92587078012

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-226
 -0.0325 ± 0.0552 (0.191) C:101% T:NA
 pCi/L
 03/08/22 08:21

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.



Project: YATES AP-2 RAD

Pace Project No.: 92587078

QC Batch: 486658 Analysis Method: EPA 9320

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

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587078010, 92587078011, 92587078012

METHOD BLANK: 2353494 Matrix: Water

Associated Lab Samples: 92587078010, 92587078011, 92587078012

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-228
 0.240 ± 0.292 (0.616) C:84% T:82%
 pCi/L
 03/07/22 15:13

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.



Project: YATES AP-2 RAD

Pace Project No.: 92587078

QC Batch: 486656 Analysis Method: EPA 9320

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

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587078001, 92587078002, 92587078003, 92587078004, 92587078005, 92587078006, 92587078007

METHOD BLANK: 2353491 Matrix: Water

Associated Lab Samples: 92587078001, 92587078002, 92587078003, 92587078004, 92587078005, 92587078006, 92587078007

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-228
 0.534 ± 0.356 (0.681) C:77% T:89%
 pCi/L
 03/07/22 11:50

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.



Project: YATES AP-2 RAD

Pace Project No.: 92587078

QC Batch: 486654 Analysis Method: EPA 9320

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

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587078008, 92587078009

METHOD BLANK: 2353485 Matrix: Water

Associated Lab Samples: 92587078008, 92587078009

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-228
 0.0646 ± 0.235 (0.535) C:84% T:93%
 pCi/L
 03/04/22 10:45

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.



QUALIFIERS

Project: YATES AP-2 RAD

Pace Project No.: 92587078

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

Date: 03/17/2022 03:51 PM

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AP-2 RAD

Pace Project No.: 92587078

Date: 03/17/2022 03:51 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587078001	YGWC-28S	EPA 9315	485935		
92587078002	YGWC-28I	EPA 9315	485935		
92587078003	AP-2-DUP-1	EPA 9315	485935		
92587078004	YGWC-29I	EPA 9315	485935		
92587078005	AP-2-FB-1	EPA 9315	485935		
92587078006	YGWC-27S	EPA 9315	485935		
2587078007	AP-2-EB-1	EPA 9315	485935		
2587078008	AP-2-EB-2	EPA 9315	485935		
2587078009	AP-2-FB-2	EPA 9315	485935		
92587078010	YGWC-26S	EPA 9315	486611		
2587078011	YGWC-26I	EPA 9315	486611		
92587078012	YGWC-27I	EPA 9315	486611		
2587078001	YGWC-28S	EPA 9320	486656		
92587078002	YGWC-28I	EPA 9320	486656		
2587078003	AP-2-DUP-1	EPA 9320	486656		
2587078004	YGWC-29I	EPA 9320	486656		
2587078005	AP-2-FB-1	EPA 9320	486656		
2587078006	YGWC-27S	EPA 9320	486656		
2587078007	AP-2-EB-1	EPA 9320	486656		
2587078008	AP-2-EB-2	EPA 9320	486654		
2587078009	AP-2-FB-2	EPA 9320	486654		
2587078010	YGWC-26S	EPA 9320	486658		
2587078011	YGWC-26I	EPA 9320	486658		
2587078012	YGWC-27I	EPA 9320	486658		
2587078001	YGWC-28S	Total Radium Calculation	490237		
2587078002	YGWC-28I	Total Radium Calculation	490237		
2587078003	AP-2-DUP-1	Total Radium Calculation	490237		
92587078004	YGWC-29I	Total Radium Calculation	490237		
2587078005	AP-2-FB-1	Total Radium Calculation	490237		
2587078006	YGWC-27S	Total Radium Calculation	490237		
2587078007	AP-2-EB-1	Total Radium Calculation	490237		
2587078008	AP-2-EB-2	Total Radium Calculation	490237		
2587078009	AP-2-FB-2	Total Radium Calculation	490237		
2587078010	YGWC-26S	Total Radium Calculation	489944		
2587078011	YGWC-26I	Total Radium Calculation	489944		
92587078012	YGWC-27I	Total Radium Calculation	489944		

Pace Analytical*

Document Name:

Sample Condition Upon Receipt (SCUR)

Document No.: F-CAR-CS-033-Rev.08 Document Revised: November 15, 2021

Page 1 of 2

Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples: Asheville	Huntersville Ralei	gh Mechanicsville Atlanta Kernersville
Sample Condition Upon Receipt Courier: Fed Ex UPS Commercial Pace	broll	Project #:
Custody Seal Present? Yes No Seals	Intact?	Date/Initials Person Examining Contents: 2/9/22
Packing Material: Bubble Wrap Bubble Thermometer: Cooler Temp: Correction Factor Cooler Temp Corrected (°C): USDA Regulated Soil (N/A, water sample) Did samples originate in a quarantine zone within the United	Type of Ice:	Other Biological Tissue Frozen Blue None 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?	Tres No NA	1.
Samples Arrived within Hold Time?	DYES ONO ON/A	2.
Short Hold Time Analysis (<72 hr.)?	□Yes ÆÑo □N/A	3.
Rush Turn Around Time Requested?	□Yes □No □N/A	4.
Sufficient Volume?	ØYes □No □N/A	5.
Correct Containers Used? -Pace Containers Used?	,□Yes □No □N/A □Yes □No □N/A	6.
Containers Intact?	DIES NO NA	7.
Dissolved analysis: Samples Field Filtered?	□Yes □No □N/A	8.
Sample Labels Match COC?	□Yes □No □N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	W	•
Headspace in VOA Vials (>5-6mm)?	Yes No GN/A	10.
Trip Blank Present?	Yes No NA	11.
Trip Blank Custody Seals Present? COMMENTS/SAMPLE DISCREPANCY	Yes No N/A	Field Data Required? ☐Yes ☐No
CLIENT NOTIFICATION/RESOLUTION		Lot ID of split containers:
Person contacted:	Date/T	ime:
Project Manager SCURF Review:		Date:
Project Manager SRF Review:		Date:

Pace Analytical

Document Name: Sample Condition Upon Receipt (SCUR)

Document No.: F-CAR-CS-033-Rev.08 Document Revised: November 15, 2021 Page 2 of 2

> Issuing Authority: Pace Carolinas Quality Office

Project # WO#: 925870

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

(tem#	BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	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)	BP48-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG15-1 liter Amber H2SO4 (pH < 2)	AG35-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4CI (N/A)(CI-)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterije Plastic (N/A - lab)	15 P/N	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1			1			X																		2	\angle			
2		(1			X																		X				
3		1	1			W																		Ž	\angle			
4		1	1			X																		2				
5)	1			N																		2				
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9																									1			
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11				Ì	V																				1			
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 DEHNR 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.

	App IV: Beryllium Lithium 7040A:	App III	Anions :		12	=	10	9	8	7	6	5	4	3 -	2	1	ITEM#		equest	Phone:	Email To:		Address:	Required	Ł			
	App IV: Metats 6020B: Antimony (Sb), Arsenic (As), Banium (Ba), Berylium (Ba), Cadmium (Cd), Chomium (Cr), Cobalt (Co), Lead (Pbr., Lithium (Li), Molybdenum (Mo), Selenium (Se) (7040A: Mercury (Hg)	Metals: Boron 6020B, Ca 6010D	Anions Suite 300.0 (Cl. F, Suffate)	ADDITIONAL COMMENTS	AP2FB-2 TV	AP-2-FB-1	AP-2-28-2 ~~	**************************************	YGWC-291	AP-2-DUP-1	YGWC-281	YGWC-28S	KOWC 274	*GWC-278-12-	YCWC 201	X6MC-265	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique		Requested Due Date:	Fax		Ciaria, GO		哥				
	Banium (Ba), t (Co), Lead (Pb),		87	R	٠												MATRIX CODE Divality West With Water WY Product P SolfSold S, OI Wipp Ar Ar Other TS		Project Number:	Project Name:	Purchase Order #:	copy 10:	Report To:	Section B Required Project Information:) :			
	\	11	2	F	*	\$	*	3	N.	¥	*	*	*	¥	1	3	MATRIX CODE (see valid codes to left)	1	ber:) 6 :	rder #:	A	SSS	roject				
		1	1	HISTO	6	G	G	9	6	9	9	6	G	P	၈	G	SAMPLE TYPE (G=GRAB C=COMP)	1				adis	800	Infor				
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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.

		App IV. Berylliu Lithium 7040A:	A00 III	Anions		12	=	10	9	8	7	6	5	4	3	2	1	ITEM#		Keques	Phone:	Email To:	Augusto.	Company:	Require
		App Nr. Metats 6020B; Artimony (Sb), Arsenic (As), Barium (Ba), Beryllum (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	App III Metals: Boron 6020B, Ca 6010D	Anions Suite 300.0 (Cl, F, Sulfate)	ADDITIONAL COMMENTS	AP-2-FB-2	AP-24FB-1	AP-2-EB-Z	AP-2-EB-1	Y6WC-291-	AP-Z-DUP-1	YGWC-281	YGWCZ8S	Y6WC-271-	YGWC-27S	YGWC-281-	YGWC-285	SAMPLE ID One Character per box. (A-Z, 0-91, -) Sample ids must be unique		Requested Due Date:	Fax	X	Atlanta, GA		흕
		ium (Ba), So), Lead (Pb),	1															MACHUX DONLING Water Wat		Project Number:	Project Name:	Purchase Order #:	Copy To:	Report To:	Required Project Information:
		`	M	DATE	RELINQUISHED BY / AFFILIATION	WT G	š	¥	*	3	Wī	3	3	\$	Š	WT	3	MATRIX CODE (see valid codes to	left)	nben	.B.	nder #	Arc	SC	roject
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Quality Control Sample Performance Assessment

Test: Ra-228
Analyst: JSM
Date: 3/3/2022
Worklist: 65309
Matrix: WT

Method Blank Assessment

MB Sample ID 2353491

MB concentration: 0.534

MB 2 Sigma CSU: 0.356

MB MDC: 0.681

MB Numerical Performance Indicator: 2.94

MB Status vs Numerical Indicator: Warning

MB Status vs. MDC: Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS65309	LCSD65309
Count Date:	3/7/2022	3/7/2022
Spike I.D.:	21-029	21-029
Decay Corrected Spike Concentration (pCi/mL):	36.090	36.090
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.810	0.805
Target Conc. (pCi/L, g, F):	4.454	4.482
Uncertainty (Calculated):	0.218	0.220
Result (pCi/L, g, F):	4.392	4.287
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.963	0.935
Numerical Performance Indicator:	-0.12	-0.40
Percent Recovery:	98.60%	95.66%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment		
Sample I.D.: Duplicate Sample I.D.: Sample Result (pCi/L, g, F): Sample Result 2 Sigma CSU (pCi/L, g, F): Sample Duplicate Result (pCi/L, g, F): Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): Are sample and/or duplicate results below RL?	0.963 4.287 0.935	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Numerical Performance Indicator:		
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.03%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
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.	
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):	
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:	

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

Comments:

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

		NA	MB Status vs Numerical Indicator:	
MS Targ		0.65	MB Numerical Performance Indicator:	
		0.175	MB MDC:	
Spike Volum		0.071	M/B Counting Uncertainty:	
Spike Volu		0.023	MB concentration:	
MS/MSD Decay Corrected Spike Co		2349823	MB Sample ID	
			Method Blank Assessment	<u>N</u>
		VAC		
		65254	Worklist:	
Sa		2/27/2022		
Sample Matrix Spike Control Assessment		JC2	Analyst:	~-
		Ra-226	www.pacedabs.com Test:	
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Laboratory Control Sample Assessment	LCSD (Y or N)?	**************************************	
	LCS65254	LCSD65254	
Count Date:	3/11/2022	3/11/2022	
Spike I.D.:	19-033	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.029	24.029	
Volume Used (mL):	0.10	0.10	
Aliquot Volume (L, g, F):	0.506	0.503	
Target Conc. (pCi/L, g, F):	4.753	4.772	
Uncertainty (Calculated):	0.057	0.057	
Result (pCi/L, g, F):	5.401	4.767	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.497	0.465	
Numerical Performance Indicator:	2.54	-0.02	
Percent Recovery:	113.63%	99.89%	
Status vs Numerical Indicator:	N/A	N/A	
Status vs Recovery:	Pass	Pass	
Upper % Recovery Limits:	125%	125%	
Lower % Recovery Limits:	75%	75%	Γ

	Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
	Sample Collection Date:		
	Sample I.D.		
	Sample MS I.D.		
	Sample MSD i.D.		
	Spike I.D.:		
	MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
	Spike Volume Used in MS (mL):		
	Spike Volume Used in MSD (mL):		
	MS Aliquot (L, g, F):		
	MS Target Conc.(pCi/L, g, F):		
	MSD Aliquot (L, g, F):		
	MSD Target Conc. (pCi/L, g, F):		
	MS Spike Uncertainty (calculated):		
Υ	MSD Spike Uncertainty (calculated):		
CSD65254	Sample Result:		
3/11/2022	Sample Result Counting Uncertainty (pCi/L, g, F):		
19-033	Sample Matrix Spike Result:		
24.029	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
0.10	Sample Matrix Spike Duplicate Result:		
0.503	Matrix Spike Duplicate Result Counting Uncertainty (pCilL, g, F):		
4.772	MS Numerical Performance Indicator:		
0.057	MSD Numerical Performance Indicator:		
4.767	MS Percent Recovery:		
0.465	MSD Percent Recovery:		
-0.02	MS Status vs Numerical Indicator:		
99.89%	MSD Status vs Numerical Indicator:		
N/A	MS Status vs Recovery:		
Pass	MSD Status vs Recovery:		
125%	MS/MSD Upper % Recovery Limits:		
75%	MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment			Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.:	LCS65254	92587078001	Sample I.D.
Duplicate Sample I.D.	LCSD65254	92587078001DUP	Sample MS I.D.
Sample Result (pCi/L, g, F):	5.401	0.273	Sample MSD I.D.
Sample Result Counting Uncertainty (pCi/L, g, F):	0.497	0.136	Sample Matrix Spike Result:
Sample Duplicate Result (pCi/L, g, F):	4.767		Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.465		Sample Matrix Spike Duplicate Result:
Are sample and/or duplicate results below RL?	NO O	See Below ##	Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:	1.824	1.094でド	Duplicate Numerical Performance Indicator:
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	12.87%	42.81%	(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	Fail***	MS/ MSD Duplicate Status vs RPD:
% RPD Limit:	25%	25%	% RPD Limit
## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.	ample or duplicate	results are below the	MDC.)
			\

12 15 WE

TAR_65254_W.xls Total Alpha Radium (ENV-FRM-GBUR-0142 R0).xls

Comments:

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Quality Control Sample Performance Assessment

Test: Ra-226
Analyst: JC2
Date: 3/1/2022
Worklist: 65294
Matrix: DW

 Method Blank Assessment
 MB Sample ID
 2353259

 MB concentration:
 -0.033

 M/B Counting Uncertainty:
 0.055

 MB MDC:
 0.191

 MB Numerical Performance Indicator:
 -1.16

 MB Status vs Numerical Indicator:
 N/A

 MB Status vs. MDC:
 Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS65294	LCSD65294
Count Date:	3/8/2022	3/8/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.029	24.029
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.506
Target Conc. (pCi/L, g, F):	4.777	4.752
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.910	4.441
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.508	0.466
Numerical Performance Indicator:	0.51	-1.30
Percent Recovery:	102.79%	93.46%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:		125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment		
Sample I.D.:	LCS65294	92587080025
Duplicate Sample I.D.	LCSD65294	92587080025DUP
Sample Result (pCi/L, g, F):	4.910	0.708
Sample Result Counting Uncertainty (pCi/L, g, F):	0.508	0.212
Sample Duplicate Result (pCi/L, g, F):	4.441	0.789
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.466	0.203
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	1.334	-0.540
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	9.51%	10.80%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	25%	25%

	Sample I.D.
	Sample MS I.D.
	Sample MSD I.D.
	Spike I.D.:
	MS/MSD Decay Corrected Spike Concentration (pCi/mL):
	Spike Volume Used in MS (mL):
	Spike Volume Used in MSD (mL):

Sample Collection Date:

MS/MSD 1

MS/MSD 2

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Sample Matrix Spike Control Assessment

Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL):
MS Aliquot (L, q, 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:

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

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

Comments:

Comments:

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

M3/8/22

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Ra-228_65310_W Ra-228 (R086-8 04Sep2019).xis

(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:

Duplicate Status vs Numerical Indicator:
Duplicate Status vs RPD:
% RPD Limit:

Duplicate Numerical Performance Indicator:

3.967 0.892 NO 0.541 8.78% Pass Pass 936%

(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:

MS/ MSD Duplicate Status vs Numerical Indicator

MS/ MSD Duplicate Status vs RPD

Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F)

Duplicate Numerical Performance Indicator:

Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result:

Sample Matrix Spike Result

Sample I.D.
Sample MS I.D.
Sample MSD I.D.

Duplicate Sample I.D.

Sample Result (pCi/L, g, F):
Sample Result 2 Sigma CSU (pCi/L, g, F):
Sample Duplicate Result (pCi/L, g, F):
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Are sample and/or duplicate results below RL?

Sample I.D.

LCS65310 LCSD65310 4.343 1.032

Enter Duplicate sample IDs if other than LCS/LCSD in the space below

Page 35 of 35

Face Analytical

Quality Control Sample Performance Assessment

						#					2071
MB Status vs Numerical Indicator:	MB Numerical Performance Indicator:	MB MDC:	M/B 2 Sigma CSU:	MB concentration:	MB Sample ID		Matrix:	Worklist:	Date:	Analyst:	" Test:
Pass	0.97	0.492	0.223	0.110	2353492		TW	65310	3/2/2022	∀AL	Ra-228

Pass	MB Status vs. MDC:
Pass	MB Status vs Numerical Indicator:
0.97	Numerical Performance Indicator:
0.492	MB MDC:
0.223	M/B 2 Sigma CSU:
0.110	MB concentration:

0.110 0.223 0.492 0.97 Pass Pass	MB concentration: M/B 2 Sigma CSU: M/B MB MDC: MB MDC: all Performance Indicator: ss vs Numerical Indicator: MB Status vs. MDC:

0.110 0.223 0.492 0.97 Pass

MS/MSD Decay Corrected Spike Concentre Spike Volume Use Spike Volume Usec MS Tarrect Con
Say
Sample C

the state of the s	Sample I.I	Sample MS I.I	Sample MSD I.I	Spike I.E
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Sample Matrix Spike Control Assessment

MS/MSD 1

MS/MSD 2

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Sample I.D.

Ci/mL)

AS (mL)

d 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):

Sample Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result Sample Result:

Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F) Matrix Spike Result 2 Sigma CSU (pCi/L, g, F) MSD Numerical Performance Indicator. Sample Matrix Spike Duplicate Result MS Numerical Performance Indicator

MS Status vs Numerical Indicator MS Percent Recovery: MSD Percent Recovery:

/MSD Lower % Recovery Lin	/MSD Upper % Recovery Lin	MSD Status vs Recov	MS Status vs Recov	D Status vs Numerical Indic
 ery Li	ery Li	Reco	Reco	Indic

D Upper %	MSD St	MS St	tatus vs Ni	
D Upper % Recovery Lir	MSD Status vs Recov	MS Status vs Recov	tatus vs Numerical Indica	The same of the same of the same of the same of

- MS SM

Matrix Spike/Matrix Spike Duplicate Sample Assessment

- 1.032 -0.18 97.87% N/A Pass 135% 60%
- 0.814 4.438 0.217 4.343 0.816 4.425 0.217 3.967 0.892 -0.892 -0.98 89.64% N/A Pass 135%

- Uncertainty (Calculated): Result (pCi/L, g, F):
- Aliquot Volume (L, g, F): Target Conc. (pCi/L, g, F):
- Volume Used (mL):
- Decay Corrected Spike Concentration (pCi/mL):

Laboratory Control Sample Assessment

Duplicate Sample Assessment

Count Date: Spike I.D.:

21-029

21-029 36.127 0.10 3/4/2022

LCSD65310

LCS/LCSD 2 Sigma CSU (pCi/L, g, F): Numerical Performance Indicator: Status vs Numerical Indicator: Upper % Recovery Limits: Lower % Recovery Limits:

Status vs Recovery

Percent Recovery:



Georgia Power Co. - Plant Yates

Data Review Report

Metals and General Chemistry Analyses

SDG #92587091

Analyses Performed By:
Pace Analytical Services – Asheville, North Carolina
Pace Analytical Services – Peachtree Corners, Georgia

Report #44872R Review Level: Tier II Project: 30052922.00004

Summary

This Data Review Report summarizes the review of Sample Delivery Group (SDG) #92587091 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	Doront		Analysi	5
Sample ID	Lab ID	D Matrix	Collection Date	Parent Sample	RAD	MET	GEN CHEM
YGWA-39	92587091001	Water	2/8/2022			Х	Х
YGWA-40	92587091002	Water	2/8/2022			Х	Х
YGWA-47	92587091003	Water	2/8/2022			Х	Х
GWA-2	92587091004	Water	2/8/2022			Х	Х
UP-DUP-1	92587091005	Water	2/8/2022	GWA-2		Х	Х
YGWA-1I	92587091006	Water	2/9/2022			Х	Х
YGWA-1D	92587091007	Water	2/9/2022			Х	Х
YGWA-2I	92587091008	Water	2/9/2022			Х	Х
YGWA-3I	92587091009	Water	2/9/2022			Х	Х
YGWA-3D	92587091010	Water	2/9/2022			Х	Х
UP-EB-1	92587091011	Water	2/9/2022			Х	Х
UP-FB-1	92587091012	Water	2/9/2022			Х	Х
YGWA-17S	92587091013	Water	2/9/2022			Х	Х
YGWA-18S	92587091014	Water	2/9/2022			Х	Х
YGWA-18I	92587091015	Water	2/9/2022			Х	Х
YGWA-20S	92587091016	Water	2/9/2022			Х	Х
YGWA-21I	92587091017	Water	2/9/2022			Х	Х
YGWA-5I	92587091018	Water	2/10/2022			Х	Х
UP-DUP-3	92587091019	Water	2/10/2022	YGWA-5I		Х	Х

			Sample Ana Collection Parent				lysis	
Sample ID	Lab ID	Matrix	Date	Sample	RAD	MET	GEN CHEM	
YGWA-14S	92587091020	Water	2/10/2022			Х	Х	
UP-DUP-2	92587091021	Water	2/10/2022	YGWA-14S		Х	Х	
YGWA-30I	92587091022	Water	2/11/2022			Х	Х	
YGWA-4I	92587091023	Water	2/11/2022			Х	Х	
YGWA-5D	92587091024	Water	2/10/2022			Х	Х	
UP-EB-2	92587091025	Water	2/10/2022			Х	Х	
UP-FB-2	92587091026	Water	2/10/2022			Х	Х	

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. pH analysis performed as a field measurement.

Analytical Data Package Documentation

The table below evaluates the data package completeness.

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

Note:

QA = quality assurance

Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010D, 6020B, and 7470A; 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
YGWA-39 YGWA-40 YGWA-47 GWA-2 UP-DUP-1 YGWA-11 YGWA-11 YGWA-21	Arsenic (EB, FB)	Detected sample results <rl <bal<="" and="" td=""><td>"UB" at the RL</td></rl>	"UB" at the RL

Sample Locations	Analytes	Sample Result	Qualification
YGWA-3I YGWA-3D YGWA-17S YGWA-18S YGWA-18I YGWA-20S YGWA-21I YGWA-5I UP-DUP-3 YGWA-14S UP-DUP-2 YGWA-30I YGWA-4I YGWA-5D	Arsenic (EB, FB, MB)	Detected sample results <rl <bal<="" and="" td=""><td>"UB" at the RL</td></rl>	"UB" at the RL
YGWA-18S	Chromium (MB)		

Notes:

EB = Equipment blank

FB = Field blank

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 YGWA-3D in association with SW-846 6010D analysis. The concentration of calcium in the unspiked sample was greater than four-times the amount of spike added; hence the recoveries were not evaluated, and no qualification of the results was required.

The MS/MSD analysis performed using sample YGWA-3I in association with SW-846 6020B analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YGWA-14S in association with SW-846 7470A 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	
	Calcium	25.6	25.6	0.0%	
	Barium	0.037	0.034	8.5%	
	Cobalt	0.072	0.055	26.8%	
GWA-2 / UP-DUP-1	Copper	0.0012 J	0.0012 J		
	Lithium	0.0031 J	0.0027 J	AC	
	Nickel	0.017	0.014	AC	
	Zinc	0.014	0.012	-	
	Calcium	2.5	2.6		
YGWA-5I / UP-DUP-3	Barium	0.020	0.020	AC	
	Lithium	0.0036 J	0.0037 J	-	
	Calcium	1.3	1.2		
YGWA-14S / UP-DUP-2	Barium	0.0088	0.0084	AC	
	Beryllium	0.00025 J	0.00022 J	-	

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Boron	0.020 J	0.018 J	
	Selenium	0.0014 J	0.0050 U	

Note:

AC = Acceptable

The differences in the results between the parent sample GWA-2 and field duplicate sample UP-DUP-1 were acceptable.

The differences in the results between the parent sample YGWI-5I and field duplicate sample UP-DUP-3 were acceptable.

The differences in the results between the parent sample YGWA-14S and field duplicate sample UP-DUP-2 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		rmance eptable	Not Required	
	No	Yes	No	Yes		
Inductively Coupled Plasma-Atomic Emission Spectron Inductively Coupled Plasma-Mass Spectrometry (ICP-M Atomic Absorption – Manual Cold Vapor (CV)		AES)				
Tier II Validation						
Holding Times		Х		Х		
Reporting limits (units)		Х		Х		
Blanks			1	ı	1	
A. Method Blanks		Х	Х			
B. Equipment/Field Blanks		Х	Х			
Laboratory Control Sample (LCS) %R		Х		Х		
Matrix Spike (MS) %R		Х		Х		
Matrix Spike Duplicate (MSD) %R		Х		Х		
MS/MSD Precision (RPD)		Х		Х		
Laboratory Duplicate (RPD)	X				X	
Field Duplicate (RPD)		X		Х		

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-21I and YGWA-5I in association with anions analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed on sample locations YGWA-47 and YGWA-1D in association with anions analysis exhibited recoveries outside of the acceptance limits as presented in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
YGWA-47	Sulfate	73%	AC (75%)
YGWA-1D	Chloride	> 125%	AC (121%)

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.

Control limit	Sample Result	Qualification
MS/MSD percent recovery 30% to 74%	Non-detect	UJ
Morniob percent recovery 30 % to 7 + 70	Detect	J
MS/MSD percent recovery <30%	Non-detect	R
Mornios percent recovery 25070	Detect	J
MS/MSD percent recovery >125%	Non-detect	No Action
Mornios percent recovery > 120/0	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.

The laboratory duplicate analysis performed using samples YGWA-47 and UP-EB-1 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
	TDS	283	271	4.4%
GWA-2 / UP-DUP-1	Chloride	5.7	5.7	0.0%
SW/Y27 61 B61 1	Sulfate	107	102	4.8%
	Fluoride	0.064 J	0.059 J	AC
	TDS	77.0	67.0	13.9%
YGWA-5I – UP-DUP-3	Chloride	4.4	4.4	AC
	Sulfate	2.4	2.4	AO
	TDS	56.0	53.0	5.5%
YGWA-14S / UP-DUP-2	Sulfate	6.2	6.1	1.6%
	Chloride	4.7	4.7	AC

Note:

AC = Acceptable

The differences in the results between the parent sample GWA-2 and field duplicate sample UP-DUP-1 were acceptable.

The differences in the results between the parent sample YGWI-5I and field duplicate sample UP-DUP-3 were acceptable.

The differences in the results between the parent sample YGWA-14S and field duplicate sample UP-DUP-2 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	Rep	orted		rmance eptable	Not Required
300.0	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		Х		Х	
Reporting limits (units)		Х		Х	
Blanks	1	<u> </u>	1	ı	
A. Method Blanks		Х		Х	
B. Equipment/Field Blanks		Х		Х	
Laboratory Control Sample (LCS) %R		Х		Х	
Matrix Spike (MS) %R		Х	Х		
Matrix Spike Duplicate (MSD) %R		Х		Х	
MS/MSD Precision (RPD)		Х		Х	
Laboratory Duplicate (RPD)		Х		Х	
Field Duplicate (RPD)		Х		Х	

Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE:

DATE: March 21, 2022

Sknrije Osinger

PEER REVIEW: Dennis Capria

DATE: March 22, 2022

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SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92587091	YGWA-39	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-40	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-47	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
		EPA 300.0	Sulfate	50.9	mgL	J	MS %R < LCL
	GWA-2	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	UP-DUP-1	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-1I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-1D	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
		EPA 300.0	Chloride	1.0	mgL	J	MS %R > UCL
	YGWA-2I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-3I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-3D	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-17S	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-18S	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
			Chromium	0.0050	mgL	UB	Blank contamination
	YGWA-18I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-20S	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-21I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-5I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	UP-DUP-3	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-14S	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	UP-DUP-2	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-30I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-4I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-5D	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination

Abbreviations:

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

Qualifiers:

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





February 25, 2022

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

RE: Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2022 and February 11, 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,

Micole D'oles

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Anna Bottum, ERM
Andrea Brazell, ERM
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Lacy Smith, ERM
Samantha Thomas

Caitlin Tillema, ERM Christine Weaver, ERM Albert Zumbuhl, Arcadis





CERTIFICATIONS

YATES POOLED UPGRADIENT Project:

Pace Project No.: 92587091

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006 South Carolina Certification #: 99006001

9800 Kincey Ave. Ste 100, Huntersville, NC 28078 South Carolina Drinking Water Cert. #: 99006003

North Carolina Drinking Water Certification #: 37706 Florida/NELAP Certification #: E87627 North Carolina Field Services Certification #: 5342 Kentucky UST Certification #: 84 North Carolina Wastewater Certification #: 12 Louisiana DoH Drinking Water #: LA029 South Carolina Laboratory ID: 99006 Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804 South Carolina Laboratory ID: 99030 Florida/NELAP Certification #: E87648 South Carolina Certification #: 99030001

North Carolina Drinking Water Certification #: 37712 Virginia/VELAP Certification #: 460222

North Carolina Wastewater Certification #: 40

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092 North Carolina Certification #: 381

Florida DOH Certification #: E87315 Georgia DW Inorganics Certification #: 812 South Carolina Certification #: 98011001



SAMPLE SUMMARY

Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92587091001	YGWA-39	Water	02/08/22 14:55	02/09/22 10:18
92587091002	YGWA-40	Water	02/08/22 13:22	02/09/22 10:18
92587091003	YGWA-47	Water	02/08/22 11:40	02/09/22 10:18
92587091004	GWA-2	Water	02/08/22 11:50	02/09/22 10:18
92587091005	UP-DUP-1	Water	02/08/22 00:00	02/09/22 10:18
92587091006	YGWA-1I	Water	02/09/22 13:45	02/10/22 17:00
92587091007	YGWA-1D	Water	02/09/22 14:45	02/10/22 17:00
92587091008	YGWA-2I	Water	02/09/22 17:35	02/10/22 17:00
92587091009	YGWA-3I	Water	02/09/22 11:35	02/10/22 17:00
92587091010	YGWA-3D	Water	02/09/22 10:20	02/10/22 17:00
2587091011	UP-EB-1	Water	02/09/22 13:06	02/10/22 17:00
2587091012	UP-FB-1	Water	02/09/22 10:47	02/10/22 17:00
2587091013	YGWA-17S	Water	02/09/22 10:20	02/10/22 17:00
2587091014	YGWA-18S	Water	02/09/22 12:24	02/10/22 17:00
2587091015	YGWA-18I	Water	02/09/22 14:31	02/10/22 17:00
2587091016	YGWA-20S	Water	02/09/22 16:19	02/10/22 17:00
2587091017	YGWA-21I	Water	02/09/22 17:40	02/10/22 17:00
2587091018	YGWA-5I	Water	02/10/22 17:27	02/11/22 16:45
92587091019	UP-DUP-3	Water	02/10/22 00:00	02/11/22 16:45
92587091020	YGWA-14S	Water	02/10/22 16:20	02/11/22 16:45
2587091021	UP-DUP-2	Water	02/10/22 00:00	02/11/22 16:45
2587091022	YGWA-30I	Water	02/11/22 09:20	02/11/22 16:45
2587091023	YGWA-4I	Water	02/11/22 10:40	02/11/22 16:45
2587091024	YGWA-5D	Water	02/10/22 17:46	02/11/22 16:45
2587091025	UP-EB-2	Water	02/10/22 11:40	02/11/22 16:45
92587091026	UP-FB-2	Water	02/10/22 17:13	02/11/22 16:45



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

92587091001 YGWA-39	Lab ID	Sample ID	Method	Analysts	Analytes Reported
Part Part	92587091001	YGWA-39	EPA 6010D	— <u>———</u> КН	1
SM 2540C-2015 ALW 1 1 1 1 1 1 1 1 1			EPA 6020B	CW1	13
P2587091002 YGWA-40			EPA 7470A	VB	1
92587091002 YGWA-40 EPA 6010D KH 1 EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 ALW 1 SM 2540C-2015 ALW 3 SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3 SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3 SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3 SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3 SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3 SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3 SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3 SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3 SM 2540C-2016			SM 2540C-2015	ALW	1
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92587091003			EPA 7470A	VB	1
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92587091004			EPA 7470A	VB	1
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P2587091007 YGWA-1D EPA 6010D KH 1 SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 7470A VB 1 SM 2540C-2015 ALW 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A KB 1 EPA 7470A KB 1 EPA 7470A KB 1 EPA 7470A KB 1 EPA 6010D KH 1 EPA 6010D KH 1	92587091006	YGWA-1I	EPA 6010D	KH	1
SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3 92587091007 YGWA-1D EPA 6010D KH 1 EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3 92587091008 YGWA-2I EPA 6010D KH 1			EPA 6020B	CW1	13
P2587091007 YGWA-1D EPA 6010D KH 1 EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3 P2587091008 YGWA-2I EPA 6010D KH 1			EPA 7470A	VB	1
92587091007 YGWA-1D EPA 6010D KH 1 EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3 92587091008 YGWA-2I EPA 6010D KH 1			SM 2540C-2015	ALW	1
EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3 92587091008 YGWA-2I EPA 6010D KH 1			EPA 300.0 Rev 2.1 1993	JCM	3
EPA 7470A VB 1 SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3 92587091008 YGWA-2I EPA 6010D KH 1	92587091007	YGWA-1D	EPA 6010D	KH	1
SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3 92587091008 YGWA-2I EPA 6010D KH 1			EPA 6020B	CW1	13
EPA 300.0 Rev 2.1 1993 JCM 3 92587091008 YGWA-2I EPA 6010D KH 1			EPA 7470A	VB	1
92587091008 YGWA-2I EPA 6010D KH 1			SM 2540C-2015	ALW	1
			EPA 300.0 Rev 2.1 1993	JCM	3
EPA 6020B CW1 13	92587091008	YGWA-2I	EPA 6010D	KH	1
			EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

_ab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	 VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
2587091009	YGWA-3I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
2587091010	YGWA-3D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
2587091011	UP-EB-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
2587091012	UP-FB-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
2587091013	YGWA-17S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
2587091014	YGWA-18S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
2587091015	YGWA-18I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1

REPORT OF LABORATORY ANALYSIS



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab ID	Sample ID	Method	Analysts	Analytes Reported	
		EPA 300.0 Rev 2.1 1993	JCM	3	
92587091016	YGWA-20S	EPA 6010D	KH	1	
		EPA 6020B	CW1	13	
		EPA 7470A	VB	1	
		SM 2540C-2015	ALW	1	
		EPA 300.0 Rev 2.1 1993	JCM	3	
92587091017	YGWA-21I	EPA 6010D	KH	1	
		EPA 6020B	CW1	13	
		EPA 7470A	VB	1	
		SM 2540C-2015	ALW	1	
		EPA 300.0 Rev 2.1 1993	CDC	3	
92587091018	YGWA-5I	EPA 6010D	KH	1	
		EPA 6020B	CW1	13	
		EPA 7470A	VB	1	
		SM 2540C-2015	ALW	1	
		EPA 300.0 Rev 2.1 1993	JCM	3	
92587091019	UP-DUP-3	EPA 6010D	KH	1	
		EPA 6020B	CW1	13	
		EPA 7470A	VB	1	
		SM 2540C-2015	ALW	1	
		EPA 300.0 Rev 2.1 1993	JCM	3	
92587091020	YGWA-14S	EPA 6010D	KH	1	
		EPA 6020B	CW1	13	
		EPA 7470A	VB	1	
		SM 2540C-2015	ALW	1	
		EPA 300.0 Rev 2.1 1993	JCM	3	
92587091021	UP-DUP-2	EPA 6010D	KH	1	
		EPA 6020B	CW1	13	
		EPA 7470A	VB	1	
		SM 2540C-2015	ALW	1	
		EPA 300.0 Rev 2.1 1993	JCM	3	
92587091022	YGWA-30I	EPA 6010D	KH	1	
		EPA 6020B	CW1	13	
		EPA 7470A	VB	1	
		SM 2540C-2015	ALW	1	
		EPA 300.0 Rev 2.1 1993	JCM	3	
92587091023	YGWA-4I	EPA 6010D	KH	1	

REPORT OF LABORATORY ANALYSIS



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab ID Sample ID		Method	Analysts	Analytes Reported	
		EPA 6020B		13	
		EPA 7470A	VB	1	
		SM 2540C-2015	ALW	1	
		EPA 300.0 Rev 2.1 1993	JCM	3	
92587091024	YGWA-5D	EPA 6010D	KH	1	
		EPA 6020B	CW1	13	
		EPA 7470A	VB	1	
		SM 2540C-2015	ALW	1	
		EPA 300.0 Rev 2.1 1993	JCM	3	
92587091025	UP-EB-2	EPA 6010D	KH	1	
		EPA 6020B	CW1	13	
		EPA 7470A	VB	1	
		SM 2540C-2015	ALW	1	
		EPA 300.0 Rev 2.1 1993	JCM	3	
92587091026	UP-FB-2	EPA 6010D	KH	1	
		EPA 6020B	CW1	13	
		EPA 7470A	VB	1	
		SM 2540C-2015	ALW	1	
		EPA 300.0 Rev 2.1 1993	JCM	3	

PASI-A = Pace Analytical Services - Asheville PASI-C = Pace Analytical Services - Charlotte

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



SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab Sample ID	Client Sample ID					
Method	Parameters	Result _	Units	Report Limit	Analyzed	Qualifier
2587091001	YGWA-39					
	Performed by	CUSTOME R			02/09/22 12:38	
	рН	5.78	Std. Units		02/09/22 12:38	
EPA 6010D	Calcium	15.2	mg/L	1.0	02/23/22 21:07	
EPA 6020B	Arsenic	0.0034J	mg/L	0.0050	02/23/22 19:41	В
EPA 6020B	Barium	0.041	mg/L	0.0050	02/23/22 19:41	
PA 6020B	Boron	0.13	mg/L	0.040	02/24/22 12:58	
PA 6020B	Cadmium	0.00063	mg/L	0.00050	02/23/22 19:41	
PA 6020B	Cobalt	0.0012J	mg/L	0.0050	02/23/22 19:41	
PA 6020B	Lithium	0.0080J	mg/L	0.030	02/23/22 19:41	
PA 6020B	Molybdenum	0.0035J	mg/L	0.010	02/23/22 19:41	
SM 2540C-2015	Total Dissolved Solids	248	mg/L	10.0	02/14/22 15:20	
PA 300.0 Rev 2.1 1993	Chloride	7.4	mg/L	1.0	02/15/22 08:56	
PA 300.0 Rev 2.1 1993	Fluoride	0.052J	mg/L	0.10	02/15/22 08:56	
PA 300.0 Rev 2.1 1993	Sulfate	14.6	mg/L	1.0	02/15/22 08:56	
2587091002	YGWA-40					
	Performed by	CUSTOME R			02/09/22 12:38	
	рН	5.26	Std. Units		02/09/22 12:38	
PA 6010D	Calcium	6.0	mg/L	1.0	02/23/22 21:12	
PA 6020B	Arsenic	0.0030J	mg/L	0.0050	02/23/22 19:47	В
PA 6020B	Barium	0.039	mg/L	0.0050	02/23/22 19:47	
PA 6020B	Beryllium	0.00028J	mg/L	0.00050	02/23/22 19:47	
PA 6020B	Boron	0.074	mg/L	0.040	02/24/22 13:04	
PA 6020B	Lithium	0.00076J	mg/L	0.030	02/23/22 19:47	
PA 6020B	Selenium	0.0014J	mg/L	0.0050	02/23/22 19:47	
PA 7470A	Mercury	0.00013J	mg/L	0.00020	02/16/22 15:55	
M 2540C-2015	Total Dissolved Solids	93.0	mg/L	10.0	02/14/22 15:20	
PA 300.0 Rev 2.1 1993	Chloride	6.2	mg/L	1.0	02/15/22 09:10	
PA 300.0 Rev 2.1 1993	Sulfate	17.9	mg/L	1.0	02/15/22 09:10	
587091003	YGWA-47					
	Performed by	CUSTOME R			02/09/22 12:39	
	pH	5.40	Std. Units		02/09/22 12:39	
PA 6010D	Calcium	9.4	mg/L		02/23/22 21:26	_
PA 6020B	Arsenic	0.0027J	mg/L	0.0050		В
PA 6020B	Barium	0.030	mg/L		02/23/22 19:53	
PA 6020B	Beryllium	0.000056J	mg/L		02/23/22 19:53	
PA 6020B	Boron	0.015J	mg/L	0.040		
PA 6020B	Cobalt	0.0013J	mg/L	0.0050		
PA 6020B	Lithium	0.0039J	mg/L		02/23/22 19:53	
M 2540C-2015	Total Dissolved Solids	151	mg/L		02/15/22 16:02	
PA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L	1.0	02/15/22 09:52	
PA 300.0 Rev 2.1 1993	Sulfate	50.9	mg/L	1.0	02/15/22 09:52	M1
587091004	GWA-2					
	Performed by	CUSTOME R			02/09/22 12:39	

REPORT OF LABORATORY ANALYSIS



SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2587091004	GWA-2					
	рН	5.83	Std. Units		02/09/22 12:39	
EPA 6010D	Calcium	25.6	mg/L	1.0	02/23/22 21:31	
PA 6020B	Arsenic	0.0033J	mg/L	0.0050	02/23/22 19:59	В
PA 6020B	Barium	0.037	mg/L	0.0050	02/23/22 19:59	
PA 6020B	Cobalt	0.072	mg/L	0.0050	02/23/22 19:59	
PA 6020B	Copper	0.0012J	mg/L	0.0050	02/23/22 19:59	
PA 6020B	Lithium	0.0031J	mg/L	0.030	02/23/22 19:59	
PA 6020B	Nickel	0.017	mg/L	0.0050	02/23/22 19:59	
PA 6020B	Zinc	0.014	mg/L	0.010	02/23/22 19:59	
M 2540C-2015	Total Dissolved Solids	283	mg/L		02/15/22 16:03	
PA 300.0 Rev 2.1 1993	Chloride	5.7	mg/L	1.0	02/15/22 10:34	
EPA 300.0 Rev 2.1 1993	Fluoride	0.064J	mg/L		02/15/22 10:34	
PA 300.0 Rev 2.1 1993	Sulfate	107	mg/L		02/15/22 18:19	
2587091005	UP-DUP-1	107	mg/L	3.0	02/10/22 10:13	
PA 6010D	Calcium	25.6	mg/L	1.0	02/23/22 21:36	
			•			В
PA 6020B	Arsenic	0.0034J	mg/L	0.0050	02/23/22 20:05	Ь
PA 6020B	Barium	0.034	mg/L	0.0050	02/23/22 20:05	
PA 6020B	Cobalt	0.055	mg/L	0.0050	02/23/22 20:05	
PA 6020B	Copper	0.0012J	mg/L	0.0050		
PA 6020B	Lithium	0.0027J	mg/L	0.030	02/23/22 20:05	
EPA 6020B	Nickel	0.014	mg/L	0.0050		
PA 6020B	Zinc	0.012	mg/L	0.010	02/23/22 20:05	
SM 2540C-2015	Total Dissolved Solids	271	mg/L	10.0	02/15/22 16:03	
PA 300.0 Rev 2.1 1993	Chloride	5.7	mg/L	1.0	02/15/22 10:48	
PA 300.0 Rev 2.1 1993	Fluoride	0.059J	mg/L	0.10	02/15/22 10:48	
PA 300.0 Rev 2.1 1993	Sulfate	102	mg/L	2.0	02/15/22 18:34	
2587091006	YGWA-1I					
	Performed by	CUSTOME R			02/11/22 10:07	
	рН	6.24	Std. Units		02/11/22 10:07	
PA 6010D	Calcium	2.1	mg/L	1.0	02/23/22 21:50	
PA 6020B	Arsenic	0.0033J	mg/L	0.0050		В
PA 6020B	Barium	0.0088	mg/L	0.0050	02/23/22 20:23	
PA 6020B	Cobalt	0.0023J	mg/L	0.0050	02/23/22 20:23	
PA 6020B	Lithium	0.0027J	mg/L		02/23/22 20:23	
PA 6020B	Molybdenum	0.0055J	mg/L		02/23/22 20:23	
M 2540C-2015	Total Dissolved Solids	57.0	mg/L		02/15/22 16:30	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L		02/16/22 13:32	
PA 300.0 Rev 2.1 1993	Sulfate	5.1	mg/L		02/16/22 13:32	
2587091007	YGWA-1D		9.=			
	Performed by	CUSTOME			02/11/22 10:07	
	i Giloillieu by	R			02/11/22 10.07	
	рН	7.12	Std. Units		02/11/22 10:07	
PA 6010D	Calcium	14.9	mg/L	1.0	02/23/22 21:55	
PA 6020B	Arsenic	0.0031J	mg/L	0.0050	02/23/22 20:41	В
PA 6020B	Barium	0.0067	mg/L	0.0050	02/23/22 20:41	

REPORT OF LABORATORY ANALYSIS



SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab Sample ID	Client Sample ID	Daniel	11.5	Demand Line's	A b	0
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2587091007	YGWA-1D					
EPA 6020B	Cobalt	0.00072J	mg/L	0.0050	02/23/22 20:41	
PA 6020B	Lithium	0.013J	mg/L	0.030	02/23/22 20:41	
PA 6020B	Molybdenum	0.0093J	mg/L	0.010	02/23/22 20:41	
M 2540C-2015	Total Dissolved Solids	105	mg/L	10.0	02/15/22 16:30	
PA 300.0 Rev 2.1 1993	Chloride	1.0	mg/L	1.0	02/16/22 13:46	M1
PA 300.0 Rev 2.1 1993	Fluoride	0.057J	mg/L	0.10	02/16/22 13:46	M1
PA 300.0 Rev 2.1 1993	Sulfate	9.3	mg/L	1.0	02/16/22 13:46	M1
2587091008	YGWA-2I					
	Performed by	CUSTOME			02/11/22 10:07	
	рН	R 5.89	Std. Units		02/11/22 10:07	
EPA 6010D	Calcium	23.4	mg/L	1.0	02/23/22 21:59	
PA 6020B	Arsenic	0.0037J	mg/L	0.0050	02/23/22 20:47	В
PA 6020B	Barium	0.0029J	mg/L	0.0050	02/23/22 20:47	
PA 6020B	Lithium	0.0060J	mg/L	0.030	02/23/22 20:47	
PA 6020B	Molybdenum	0.0057J	mg/L	0.010	02/23/22 20:47	
M 2540C-2015	Total Dissolved Solids	156	mg/L	10.0	02/15/22 16:31	
PA 300.0 Rev 2.1 1993	Chloride	1.0J	mg/L	1.0	02/16/22 14:28	
PA 300.0 Rev 2.1 1993	Fluoride	0.094J	mg/L	0.10	02/16/22 14:28	
PA 300.0 Rev 2.1 1993	Sulfate	18.0	mg/L	1.0	02/16/22 14:28	
2587091009	YGWA-3I					
	Performed by	CUSTOME			02/11/22 10:07	
	рН	R 7.66	Std. Units		02/11/22 10:07	
PA 6010D	Calcium	23.7	mg/L	1.0		
PA 6020B	Arsenic	0.0018J	mg/L	0.0050	02/24/22 17:09	В
PA 6020B	Barium	0.0031J	mg/L	0.0050	02/24/22 17:09	
PA 6020B	Lithium	0.021J	mg/L	0.030	02/24/22 17:09	
PA 6020B	Molybdenum	0.0087J	mg/L	0.010	02/24/22 17:09	
M 2540C-2015	Total Dissolved Solids	145	mg/L	10.0	02/15/22 16:31	
PA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	02/16/22 14:42	
PA 300.0 Rev 2.1 1993	Fluoride	0.097J	mg/L	0.10	02/16/22 14:42	
PA 300.0 Rev 2.1 1993	Sulfate	16.0	mg/L	1.0	02/16/22 14:42	
587091010	YGWA-3D					
	Performed by	CUSTOME			02/11/22 10:07	
	рН	R 7.97	Std. Units		02/11/22 10:07	
PA 6010D	Calcium	30.3	mg/L	1.0	02/23/22 22:47	M1
PA 6020B	Antimony	0.0018J	mg/L	0.0030	02/24/22 17:33	IVII
PA 6020B	Anumony Arsenic	0.00163 0.0020J	mg/L	0.0050	02/24/22 17:33	R
PA 6020B	Barium	0.00203	•	0.0050	02/24/22 17:33	ט
PA 6020B PA 6020B	Barium Boron	0.0051 0.010J	mg/L	0.0050	02/24/22 17:33	
			mg/L			
	Lithium	0.026J	mg/L	0.030	02/24/22 17:33	
	Malubalanum	0.040	no e: /I	0.040	00/04/00 47:00	
PA 6020B PA 6020B M 2540C-2015	Molybdenum Total Dissolved Solids	0.013 154	mg/L mg/L	0.010 10.0	02/24/22 17:33 02/15/22 16:31	



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
Welliou	— Faiameters		Units	- Report Limit	- Analyzeu	Qualifiers
2587091010	YGWA-3D					
EPA 300.0 Rev 2.1 1993	Fluoride	0.43	mg/L		02/16/22 14:55	
EPA 300.0 Rev 2.1 1993	Sulfate	7.2	mg/L	1.0	02/16/22 14:55	
2587091011	UP-EB-1					
EPA 6020B	Arsenic	0.0019J	mg/L	0.0050	02/24/22 17:39	В
2587091012	UP-FB-1					
EPA 6020B	Arsenic	0.0018J	mg/L	0.0050	02/24/22 17:45	В
2587091013	YGWA-17S					
	Performed by	CUSTOME			02/11/22 10:08	
	all	R	Ctd Unito		00/44/00 40:00	
EPA 6010D	pH Calcium	5.53 2.8	Std. Units mg/L	1.0	02/11/22 10:08 02/23/22 23:25	
EPA 6020B	Arsenic	0.0024J	mg/L	0.0050	02/24/22 17:51	B
EPA 6020B	Barium	0.00243	mg/L	0.0050	02/24/22 17:51	ی
EPA 6020B	Beryllium	0.00011J	mg/L	0.00050		
PA 6020B	Boron	0.0098J	mg/L	0.040		
SM 2540C-2015	Total Dissolved Solids	81.0	mg/L	10.0		
PA 300.0 Rev 2.1 1993	Chloride	10.9	mg/L	1.0		
PA 300.0 Rev 2.1 1993	Sulfate	4.8	mg/L	1.0	02/16/22 16:55	
2587091014	YGWA-18S		-			
	Performed by	CUSTOME			02/11/22 10:08	
	,	R				
	рН	5.28	Std. Units		02/11/22 10:08	
PA 6010D	Calcium	0.87J	mg/L		02/23/22 23:30	
PA 6020B	Arsenic	0.0024J	mg/L	0.0050	02/24/22 18:09	В
PA 6020B	Barium	0.014	mg/L	0.0050		
PA 6020B	Beryllium	0.000089J	mg/L	0.00050	02/24/22 18:09	_
PA 6020B	Chromium	0.0014J	mg/L	0.0050		В
PA 6020B	Lithium	0.0015J	mg/L	0.030		
SM 2540C-2015	Total Dissolved Solids	60.0	mg/L	10.0	02/15/22 16:31	
PA 300.0 Rev 2.1 1993	Chloride	7.0	mg/L	1.0		
PA 300.0 Rev 2.1 1993	Sulfate	1.1	mg/L	1.0	02/16/22 17:09	
2587091015	YGWA-18I					
	Performed by	CUSTOME R			02/11/22 10:08	
	рН	5.98	Std. Units		02/11/22 10:08	
EPA 6010D	Calcium	5.1	mg/L	1.0	02/23/22 23:35	
PA 6020B	Arsenic	0.0022J	mg/L	0.0050	02/24/22 18:15	В
PA 6020B	Barium	0.021	mg/L	0.0050		
PA 6020B	Lithium	0.0032J	mg/L	0.030	02/24/22 18:15	
M 2540C-2015	Total Dissolved Solids	103	mg/L	10.0	02/15/22 16:31	
PA 300.0 Rev 2.1 1993	Chloride	7.5	mg/L	1.0	02/16/22 17:22	
PA 300.0 Rev 2.1 1993	Sulfate	0.51J	mg/L	1.0	02/16/22 17:22	
2587091016	YGWA-20S					
	Performed by	CUSTOME			02/11/22 10:08	
	-	R				

REPORT OF LABORATORY ANALYSIS

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Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2587091016	YGWA-20S					
	pН	5.91	Std. Units		02/11/22 10:08	
EPA 6010D	Calcium	2.3	mg/L	1.0	02/23/22 23:40	
EPA 6020B	Arsenic	0.0021J	mg/L	0.0050	02/24/22 18:21	В
EPA 6020B	Barium	0.014	mg/L	0.0050	02/24/22 18:21	
EPA 6020B	Beryllium	0.000077J	mg/L	0.00050	02/24/22 18:21	
EPA 6020B	Lithium	0.00082J	mg/L	0.030	02/24/22 18:21	
SM 2540C-2015	Total Dissolved Solids	72.0	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	2.8	mg/L	1.0	02/16/22 17:36	
2587091017	YGWA-21I					
	Performed by	CUSTOME R			02/11/22 10:08	
	рН	6.84	Std. Units		02/11/22 10:08	
EPA 6010D	Calcium	9.8	mg/L	1.0	02/23/22 23:44	
EPA 6020B	Arsenic	0.0036J	mg/L	0.0050	02/24/22 18:27	В
EPA 6020B	Barium	0.011	mg/L	0.0050	02/24/22 18:27	
EPA 6020B	Cobalt	0.0078	mg/L	0.0050	02/24/22 18:27	
EPA 6020B	Lithium	0.0061J	mg/L	0.030	02/24/22 18:27	
SM 2540C-2015	Total Dissolved Solids	131	mg/L	10.0	02/15/22 16:31	
PA 300.0 Rev 2.1 1993	Chloride	1.7	mg/L	1.0	02/17/22 02:57	
PA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/17/22 02:57	
EPA 300.0 Rev 2.1 1993	Sulfate	3.9	mg/L	1.0	02/17/22 02:57	
2587091018	YGWA-5I					
	Performed by	CUSTOME R			02/14/22 11:36	
	рН	5.14	Std. Units		02/14/22 11:36	
EPA 6010D	Calcium	2.5	mg/L	1.0	02/23/22 23:49	
PA 6020B	Arsenic	0.0016J	mg/L	0.0050	02/24/22 18:33	В
PA 6020B	Barium	0.020	mg/L	0.0050	02/24/22 18:33	
PA 6020B	Lithium	0.0036J	mg/L	0.030	02/24/22 18:33	
SM 2540C-2015	Total Dissolved Solids	77.0	mg/L	10.0	02/17/22 16:07	
PA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	02/19/22 13:40	
EPA 300.0 Rev 2.1 1993	Sulfate	2.4	mg/L	1.0	02/19/22 13:40	
2587091019	UP-DUP-3					
EPA 6010D	Calcium	2.6	mg/L	1.0	02/23/22 23:54	
EPA 6020B	Arsenic	0.0017J	mg/L	0.0050	02/24/22 18:39	В
EPA 6020B	Barium	0.020	mg/L		02/24/22 18:39	
EPA 6020B	Lithium	0.0037J	mg/L	0.030	02/24/22 18:39	
SM 2540C-2015	Total Dissolved Solids	67.0	mg/L	10.0	02/17/22 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L		02/19/22 14:20	
EPA 300.0 Rev 2.1 1993	Sulfate	2.4	mg/L	1.0	02/19/22 14:20	
2587091020	YGWA-14S					
	Performed by	CUSTOME R			02/14/22 11:36	
	pН	4.50	Std. Units		02/14/22 11:36	
	r 1					
EPA 6010D	Calcium	1.3	mg/L	1.0	02/23/22 23:59	

REPORT OF LABORATORY ANALYSIS

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Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

_ab Sample ID	Client Sample ID					
Method	Parameters	Result _	Units	Report Limit	Analyzed	Qualifiers
2587091020	YGWA-14S					
PA 6020B	Barium	0.0088	mg/L	0.0050	02/24/22 18:45	
PA 6020B	Beryllium	0.00025J	mg/L	0.00050	02/24/22 18:45	
PA 6020B	Boron	0.020J	mg/L	0.040	02/24/22 18:45	
PA 6020B	Selenium	0.0014J	mg/L	0.0050	02/24/22 18:45	
M 2540C-2015	Total Dissolved Solids	56.0	mg/L	10.0	02/17/22 16:07	
PA 300.0 Rev 2.1 1993	Chloride	4.7	mg/L	1.0	02/19/22 14:34	
PA 300.0 Rev 2.1 1993	Sulfate	6.2	mg/L	1.0	02/19/22 14:34	
587091021	UP-DUP-2					
PA 6010D	Calcium	1.2	mg/L	1.0	02/24/22 00:13	
PA 6020B	Arsenic	0.0015J	mg/L	0.0050	02/24/22 18:51	В
PA 6020B	Barium	0.0084	mg/L	0.0050	02/24/22 18:51	
PA 6020B	Beryllium	0.00022J	mg/L	0.00050	02/24/22 18:51	
PA 6020B	Boron	0.018J	mg/L	0.040	02/24/22 18:51	
M 2540C-2015	Total Dissolved Solids	53.0	mg/L	10.0	02/17/22 16:07	
PA 300.0 Rev 2.1 1993	Chloride	4.7	mg/L	1.0	02/19/22 14:47	
PA 300.0 Rev 2.1 1993	Sulfate	6.1	mg/L		02/19/22 14:47	
587091022	YGWA-30I					
	Performed by	CUSTOME R			02/14/22 11:37	
	рН	5.59	Std. Units		02/14/22 11:37	
PA 6010D	Calcium	1.5	mg/L	1.0	02/24/22 00:18	
PA 6020B	Arsenic	0.0014J	mg/L	0.0050	02/24/22 18:57	В
PA 6020B	Barium	0.0077	mg/L	0.0050	02/24/22 18:57	
PA 6020B	Cobalt	0.0038J	mg/L	0.0050	02/24/22 18:57	
PA 6020B	Lithium	0.0014J	mg/L	0.030	02/24/22 18:57	
M 2540C-2015	Total Dissolved Solids	66.0	mg/L	10.0	02/17/22 17:02	
PA 300.0 Rev 2.1 1993	Chloride	2.1	mg/L	1.0	02/19/22 15:01	
PA 300.0 Rev 2.1 1993	Sulfate	2.8	mg/L	1.0	02/19/22 15:01	
587091023	YGWA-4I					
	Performed by	CUSTOME R			02/14/22 11:37	
	pН	5.95	Std. Units		02/14/22 11:37	
PA 6010D	Calcium	7.5	mg/L	1.0		
PA 6020B	Arsenic	0.0014J	mg/L	0.0050	02/24/22 19:03	В
PA 6020B	Barium	0.013	mg/L	0.0050		
PA 6020B	Lithium	0.012J	mg/L		02/24/22 19:03	
M 2540C-2015	Total Dissolved Solids	102	mg/L		02/17/22 17:02	
PA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L		02/19/22 15:14	
PA 300.0 Rev 2.1 1993	Sulfate	7.7	mg/L		02/19/22 15:14	
587091024	YGWA-5D		-			
	Performed by	CUSTOME R			02/14/22 11:37	
	рН	6.99	Std. Units		02/14/22 11:37	
PA 6010D	Calcium	24.8	mg/L	1.0	02/24/22 00:27	
PA 6020B	Arsenic	0.0040J	mg/L	0.0050		В
			<i>3</i> - –	2.2230		

REPORT OF LABORATORY ANALYSIS

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Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587091024	YGWA-5D					
EPA 6020B	Boron	0.011J	mg/L	0.040	02/24/22 19:20	
EPA 6020B	Lithium	0.0076J	mg/L	0.030	02/24/22 19:20	
EPA 6020B	Molybdenum	0.00096J	mg/L	0.010	02/24/22 19:20	
SM 2540C-2015	Total Dissolved Solids	127	mg/L	10.0	02/17/22 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L	1.0	02/19/22 15:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.055J	mg/L	0.10	02/19/22 15:54	
EPA 300.0 Rev 2.1 1993	Sulfate	4.9	mg/L	1.0	02/19/22 15:54	
92587091025	UP-EB-2					
EPA 6020B	Arsenic	0.0028J	mg/L	0.0050	02/24/22 19:32	В
92587091026	UP-FB-2					
EPA 6020B	Arsenic	0.0026J	mg/L	0.0050	02/24/22 19:38	В



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-39	Lab ID:	92587091001	Collecte	ed: 02/08/22	2 14:55	Received: 02/	/09/22 10:18 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME				1		02/09/22 12:38		
рН	R 5.78	Std. Units			1		02/09/22 12:38		
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Met	hod: Ef	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	θA				
Calcium	15.2	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:07	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Prep	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	€A				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 19:41	7440-36-0	
Arsenic	0.0034J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:41		В
Barium	0.041	mg/L	0.0050	0.00067	1	02/23/22 14:19			_
Beryllium	ND	mg/L	0.0050	0.00007	1	02/23/22 14:19			
Boron	0.13	•	0.040	0.000034	1	02/23/22 14:19			
Cadmium	0.00063	mg/L		0.0000	1		02/24/22 12:36 02/23/22 19:41		
		mg/L	0.00050						
Chromium	ND	mg/L	0.0050	0.0011	1		02/23/22 19:41		
Cobalt	0.0012J	mg/L	0.0050	0.00039	1		02/23/22 19:41		
_ead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 19:41		
_ithium	0.0080J	mg/L	0.030	0.00073	1		02/23/22 19:41		
Molybdenum	0.0035J	mg/L	0.010	0.00074	1		02/23/22 19:41		
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 19:41		
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:41	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:52	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	s - Peachtre	e Corners, C	SA.				
Total Dissolved Solids	248	mg/L	10.0	10.0	1		02/14/22 15:20		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	7.4	mg/L	1.0	0.60	1		02/15/22 08:56	16887-00-6	
Fluoride	0.052J	mg/L	0.10	0.050	1		02/15/22 08:56		
Sulfate	14.6	mg/L	1.0	0.50	1		02/15/22 08:56		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-40	Lab ID:	92587091002	Collected	d: 02/08/22	2 13:22	Received: 02/	09/22 10:18 M	atrix: Water	
			Report						_
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME R				1		02/09/22 12:38		
ЭН	5.26	Std. Units			1		02/09/22 12:38	i .	
6010D ATL ICP	•	Method: EPA 6	•			PA 3010A			
Calcium	6.0	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:12	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	8020B Pren	aration Met	hod: FF	γA 3005A			
0020 ME1 101 MO	•	lytical Services				71000071			
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 19:47	7440-36-0	
Arsenic	0.0030J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:47	7440-38-2	В
Barium	0.039	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 19:47	7440-39-3	
Beryllium	0.00028J	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 19:47	7440-41-7	
Boron	0.074	mg/L	0.040	0.0086	1	02/23/22 14:19	02/24/22 13:04	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 19:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 19:47	7440-48-4	
_ead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 19:47	7439-92-1	
Lithium	0.00076J	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 19:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 19:47	7439-98-7	
Selenium	0.0014J	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 19:47	7782-49-2	
Γhallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:47	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	7470A Prepa	aration Met	hod: EP	A 7470A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	S A				
Mercury	0.00013J	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:55	7439-97-6	
2540C Total Dissolved Solids	•	Method: SM 2		Company	2.4				
		lytical Services	- Peachtree		ЭА				
Total Dissolved Solids	93.0	mg/L	10.0	10.0	1		02/14/22 15:20	1	
300.0 IC Anions 28 Days	•	Method: EPA 3 lytical Services		1 1993					
Chloride	6.2	mg/L	1.0	0.60	1		02/15/22 09:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/22 09:10		
	17.9	mg/L	1.0	0.50	1		02/15/22 09:10		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Parameters Results Units Report Limit MDL DF Prepared Analyzed CAS No. Quitable	Sample: YGWA-47	Lab ID:	92587091003	Collected	d: 02/08/2	2 11:40	Received: 02/	09/22 10:18 M	latrix: Water	
Field Data				•						
Performed by CUSTOME RPHO	Parameters	Results -	Units	Limit ———————————————————————————————————	MDL	DF ——	Prepared	Analyzed	CAS No.	Qual
Performed by CUSTOME R S.40 Std. Units 1 02/09/22 12:39 September S.40 Std. Units 1 02/09/22 12:39 September S.40 Std. Units 1 02/09/22 12:39 September September S.40 Std. Units September	Field Data	Analytical	Method:							
PH		Pace Ana	lytical Services	- Charlotte						
St. Units St. Units St. Units St. Units St. Units St. Units St. Units St. St. Units St. St. Units St.	Performed by					1		02/09/22 12:39)	
Pace Analytical Services - Peachtree Corners, GA mg/L 1.0 0.12 1 02/23/22 14:19 02/23/22 21:26 7440-70-2 744	pΗ		Std. Units			1		02/09/22 12:39)	
Page Page	6010D ATL ICP	Analytical	Method: EPA	6010D Prepa	aration Me	thod: EF	PA 3010A			
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services Peachtree Corners, GA		Pace Ana	lytical Services	- Peachtree	Corners, 0	3A				
Antimony Antimony ND mg/L 0.0030 0.00078 1 02/23/22 14:19 02/23/22 19:53 7440-36-0 Arsenic 0.0027J mg/L 0.0050 0.0011 1 02/23/22 14:19 02/23/22 19:53 7440-38-2 B Barium 0.030 mg/L 0.0050 0.00067 1 02/23/22 14:19 02/23/22 19:53 7440-38-2 B Barium 0.00056U mg/L 0.0050 0.00067 1 02/23/22 14:19 02/23/22 19:53 7440-38-3 Beryllium 0.0015J mg/L 0.0050 0.00066 1 02/23/22 14:19 02/23/22 19:53 7440-41-7 Boron 0.015J mg/L 0.0050 0.00011 1 02/23/22 14:19 02/23/22 19:53 7440-41-7 Boron 0.015J mg/L 0.0050 0.00011 1 02/23/22 14:19 02/23/22 19:53 7440-43-9 Cadmium ND mg/L 0.0050 0.00011 1 02/23/22 14:19 02/23/22 19:53 7440-43-9 Chromium ND mg/L 0.0050 0.00011 1 02/23/22 14:19 02/23/22 19:53 7440-43-9 Chobalt 0.0013J mg/L 0.0050 0.0011 1 02/23/22 14:19 02/23/22 19:53 7440-48-4 Lead ND mg/L 0.0050 0.00013 1 02/23/22 14:19 02/23/22 19:53 7440-48-4 Lead ND mg/L 0.0050 0.00073 1 02/23/22 14:19 02/23/22 19:53 7439-93-1 Lithium 0.0039J mg/L 0.001 0.00074 1 02/23/22 14:19 02/23/22 19:53 7439-93-2 Molybdenum ND mg/L 0.001 0.00074 1 02/23/22 14:19 02/23/22 19:53 7439-93-2 Molybdenum ND mg/L 0.001 0.00074 1 02/23/22 14:19 02/23/22 19:53 7439-93-2 Thallium ND mg/L 0.0050 0.0011 1 02/23/22 14:19 02/23/22 19:53 7439-93-2 Thallium ND mg/L 0.0000 0.00018 1 02/23/22 14:19 02/23/22 19:53 7439-93-2 Thallium ND mg/L 0.0000 0.00018 1 02/23/22 14:19 02/23/22 19:53 7439-93-2 Thallium ND mg/L 0.0000 0.00018 1 02/23/22 14:19 02/23/22 19:53 7439-93-2 Thallium ND mg/L 0.0000 0.00018 1 02/23/22 14:19 02/23/22 19:53 7439-97-6 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA Total Dissolved Solids 151 mg/L 10.0 10.0 10.0 1 02/16/22 08:00 02/16/22 15:57 7439-97-6 Total Dissolved Solids 151 mg/L 10.0 10.0 10.0 1 0.0018 1 02/16/22 08:00 02/16/22 15:57 7439-97-6 Total Dissolved Solids 151 mg/L 10.0 0.60 1 00.0018 1 02/16/22 08:00 02/16/22 15:57 0439-97-6 Total Dissolved Solids 151 mg/L 10.0 0.60 1 00.0018 1 02/16/22 08:00 02/16/22 16:02 16:02 16:02 16:02 16:02 16:02 16:02 16:02 16:02 16:02	Calcium	9.4	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:26	7440-70-2	
Antimony ND mg/L 0.0030 0.00078 1 02/23/22 14:19 02/23/22 19:53 7440-36-0 Parsenic 0.0027J mg/L 0.0050 0.0011 1 02/23/22 14:19 02/23/22 19:53 7440-38-2 Barium 0.030 mg/L 0.0050 0.00067 1 02/23/22 14:19 02/23/22 19:53 7440-38-2 Barium 0.00056J mg/L 0.0050 0.00067 1 02/23/22 14:19 02/23/22 19:53 7440-38-3 Beryllium 0.00056J mg/L 0.0050 0.00054 1 02/23/22 14:19 02/23/22 19:53 7440-41-7 Boron 0.015J mg/L 0.0040 0.0086 1 02/23/22 14:19 02/23/22 19:53 7440-42-8 Cadmium ND mg/L 0.0050 0.00011 1 02/23/22 14:19 02/23/22 19:53 7440-43-9 Chromium ND mg/L 0.0050 0.00011 1 02/23/22 14:19 02/23/22 19:53 7440-43-9 Chromium ND mg/L 0.0050 0.00011 1 02/23/22 14:19 02/23/22 19:53 7440-43-9 Chromium ND mg/L 0.0050 0.00039 1 02/23/22 14:19 02/23/22 19:53 7440-43-9 Chromium ND mg/L 0.0050 0.00039 1 02/23/22 14:19 02/23/22 19:53 7439-93-2 Chromium ND mg/L 0.0010 0.00089 1 02/23/22 14:19 02/23/22 19:53 7439-93-2 Chromium ND mg/L 0.0010 0.00089 1 02/23/22 14:19 02/23/22 19:53 7439-93-2 Chromium ND mg/L 0.0010 0.00089 1 02/23/22 14:19 02/23/22 19:53 7439-93-2 Chromium ND mg/L 0.0050 0.0014 1 02/23/22 14:19 02/23/22 19:53 7439-93-2 Chromium ND mg/L 0.0050 0.0014 1 02/23/22 14:19 02/23/22 19:53 7439-93-2 Chromium ND mg/L 0.0050 0.0014 1 02/23/22 14:19 02/23/22 19:53 7440-48-8 Chromium ND mg/L 0.0050 0.0014 1 02/23/22 14:19 02/23/22 19:53 7440-28-0 Chromium ND mg/L 0.0050 0.0014 1 02/23/22 14:19 02/23/22 19:53 7440-28-0 Chromium ND mg/L 0.0050 0.0014 1 02/23/22 14:19 02/23/22 19:53 7440-28-0 Chromium ND mg/L 0.0050 0.0014 1 02/23/22 14:19 02/23/22 19:53 7440-28-0 Chromium ND mg/L 0.0050 0.0014 1 02/23/22 14:19 02/23/22 19:53 7440-28-0 Chromium ND mg/L 0.0050 0.0014 1 02/23/22 14:19 02/23/22 19:53 7440-28-0 Chromium ND mg/L 0.0050 0.0014 1 02/23/22 14:19 02/23/22 19:53 7440-28-0 Chromium ND mg/L 0.0050 0.0014 1 02/23/22 14:19 02/23/22 19:53 7440-28-0 Chromium ND mg/L 0.0050 0.0014 1 02/23/22 14:19 02/23/22 19:53 7440-28-0 Chromium ND mg/L 0.0050 0.0014 1 02/23/22 14:19 02/23/22 19:53 7440-28-0 Chromium ND mg/L 0.0050 0.0014 1 02/23/22 14:	6020 MET ICPMS	Analytical	Method: EPA	6020B Prepa	aration Me	hod: EF	PA 3005A			
Arsenic		Pace Ana	lytical Services	- Peachtree	Corners, 0	3A				
Arsenic	Antimony	ND	ma/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 19:53	7440-36-0	
Barium	•		ŭ							В
Beryllium			ū							
Boron			•							
ND mg/L	•		•							
ND mg/L 0.0050 0.0011 1 02/23/22 14:19 02/23/22 19:53 7440-47-3 7440-47-3 7440-47-3 7440-47-3 7440-47-3 7440-47-3 7440-47-3 7440-47-3 7440-48-4 7440-48-			J							
Cobalt			•							
ND mg/L 0.0010 0.00089 1 02/23/22 14:19 02/23/22 19:53 7439-92-1 1241114 0.0039J mg/L 0.030 0.00073 1 02/23/22 14:19 02/23/22 19:53 7439-93-2 124114 02/23/22 19:53 7439-93-2 124114 02/23/22 19:53 7439-93-2 124114 02/23/22 19:53 7439-93-2 124114 02/23/22 19:53 7439-93-2 124114 02/23/22 19:53 7439-93-7 124114 02/23/22 19:53 7439-93-7 124114 02/23/22 19:53 7439-93-7 124114 02/23/22 19:53 7439-93-7 124114 02/23/22 19:53 7439-93-7 124114 02/23/22 19:53 7439-93-7 124114 02/23/22 19:53 7439-93-7 124114 02/23/22 19:53 7439-93-7 124114 02/23/22 19:53 7439-93-7 124114 02/23/22 19:53 7439-93-7 124114 02/23/22 19:53 7440-28-0 124114			-							
Molybdenum			•							
Molybdenum ND mg/L 0.010 0.00074 1 02/23/22 14:19 02/23/22 19:53 7439-98-7 Selenium ND mg/L 0.0050 0.0014 1 02/23/22 14:19 02/23/22 19:53 7782-49-2 Thallium ND mg/L 0.0010 0.00018 1 02/23/22 14:19 02/23/22 19:53 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 02/16/22 08:00 02/16/22 15:57 7439-97-6 2540C Total Dissolved Solids Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA Total Dissolved Solids 151 mg/L 10.0 10.0 1 02/15/22 16:02 300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville Chloride 3.2 mg/L 1.0 0.60 1 02/15/22 09:52 16887-00-6 ND mg/L 0.010 0.050 1 02/15/22 09:52 16984-48-8 M1			-							
ND mg/L 0.0050 0.0014 1 02/23/22 14:19 02/23/22 19:53 7782-49-2			-							
Thallium ND mg/L 0.0010 0.00018 1 02/23/22 14:19 02/23/22 19:53 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 02/16/22 08:00 02/16/22 15:57 7439-97-6 2540C Total Dissolved Solids Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA Total Dissolved Solids 151 mg/L 10.0 10.0 1 02/15/22 16:02 300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville Chloride 3.2 mg/L 1.0 0.60 1 02/15/22 09:52 16887-00-6 ND mg/L 0.10 0.050 1 02/15/22 09:52 16984-48-8 M1	•		ŭ							
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA Mercury ND mg/L 0.00020 0.00013 1 02/16/22 08:00 02/16/22 15:57 7439-97-6 2540C Total Dissolved Solids Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA Total Dissolved Solids 151 mg/L 10.0 10.0 1 02/15/22 16:02 300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville Chloride 3.2 mg/L 1.0 0.60 1 02/15/22 09:52 16887-00-6 ND mg/L 0.10 0.050 1 02/15/22 09:52 16984-48-8 M1			mg/L							
Pace Analytical Services - Peachtree Corners, GA Mercury ND mg/L 0.00020 0.00013 1 02/16/22 08:00 02/16/22 15:57 7439-97-6 2540C Total Dissolved Solids Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA Total Dissolved Solids 151 mg/L 10.0 10.0 1 02/15/22 16:02 300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville Chloride 3.2 mg/L 1.0 0.60 1 02/15/22 09:52 16887-00-6 ND mg/L 0.10 0.050 1 02/15/22 09:52 16984-48-8 M1	Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:53	7440-28-0	
Mercury ND mg/L 0.00020 0.00013 1 02/16/22 08:00 02/16/22 15:57 7439-97-6 2540C Total Dissolved Solids Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA Total Dissolved Solids 151 mg/L 10.0 10.0 1 02/15/22 16:02 300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville Chloride 3.2 mg/L 1.0 0.60 1 02/15/22 09:52 16887-00-6 Fluoride ND mg/L 0.10 0.050 1 02/15/22 09:52 16984-48-8 M1	7470 Mercury	Analytical	Method: EPA	7470A Prepa	aration Met	hod: EP	'A 7470A			
2540C Total Dissolved Solids Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA Total Dissolved Solids 151 mg/L 10.0 10.0 1 02/15/22 16:02 300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville Chloride 3.2 mg/L 1.0 0.60 1 02/15/22 09:52 16887-00-6 Fluoride ND mg/L 0.10 0.050 1 02/15/22 09:52 16984-48-8 M1		Pace Ana	lytical Services	- Peachtree	Corners, 0	βA				
Pace Analytical Services - Peachtree Corners, GA Total Dissolved Solids 151 mg/L 10.0 10.0 1 02/15/22 16:02 300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville Chloride 3.2 mg/L 1.0 0.60 1 02/15/22 09:52 16887-00-6 Fluoride ND mg/L 0.10 0.050 1 02/15/22 09:52 16984-48-8 M1	Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:57	7439-97-6	
Total Dissolved Solids 151 mg/L 10.0 10.0 1 02/15/22 16:02 300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville Chloride 3.2 mg/L 1.0 0.60 1 02/15/22 09:52 16887-00-6 Fluoride ND mg/L 0.10 0.050 1 02/15/22 09:52 16984-48-8 M1	2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville Chloride 3.2 mg/L 1.0 0.60 1 02/15/22 09:52 16887-00-6 Fluoride ND mg/L 0.10 0.050 1 02/15/22 09:52 16984-48-8 M1		Pace Ana	lytical Services	- Peachtree	Corners, 0	βA				
Pace Analytical Services - Asheville Chloride 3.2 mg/L 1.0 0.60 1 02/15/22 09:52 16887-00-6 Fluoride ND mg/L 0.10 0.050 1 02/15/22 09:52 16984-48-8 M1	Total Dissolved Solids	151	mg/L	10.0	10.0	1		02/15/22 16:02	!	
Chloride 3.2 mg/L 1.0 0.60 1 02/15/22 09:52 16887-00-6 Fluoride ND mg/L 0.10 0.050 1 02/15/22 09:52 16984-48-8 M1	300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2.	1 1993					
Fluoride ND mg/L 0.10 0.050 1 02/15/22 09:52 16984-48-8 M1		Pace Ana	lytical Services	- Asheville						
Fluoride ND mg/L 0.10 0.050 1 02/15/22 09:52 16984-48-8 M1	Chloride	3.2	mg/L	1.0	0.60	1		02/15/22 09:52	16887-00-6	
y			•	_						M1
			ū							



Project: YATES POOLED UPGRADIENT

Date: 02/25/2022 02:44 PM

Pace Project No.: 92587091											
Sample: GWA-2	Lab ID:	92587091004	Collecte	ed: 02/08/22	2 11:50	Received: 02/	/09/22 10:18 Ma	atrix: Water			
Davanatava	Danulta	l laita	Report	MDI	DE	Duamanad	A a la a -l	CACN	0		
Parameters	Results -	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual		
Field Data	Analytical	Method:									
	Pace Ana	lytical Services	s - Charlotte	e							
Performed by	CUSTOME				1		02/09/22 12:39				
рН	R 5.83	Std. Units			1		02/09/22 12:39				
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	naration Met	hod: F	PA 3010A					
OUTOD ATE TO	•	lytical Services		•		7.00107.					
Calcium	25.6	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:31	7440-70-2			
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: Fl	PA 3005A					
0010 III. 101 III.		lytical Services				7.00007.					
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 19:59	7440-36-0			
Arsenic	0.0033J	mg/L	0.0050	0.0011	1		02/23/22 19:59		В		
Barium	0.037	mg/L	0.0050	0.00067	1	02/23/22 14:19			_		
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19					
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19					
Cadmium	ND	mg/L	0.0050	0.00011	1	02/23/22 14:19	02/23/22 19:59				
Chromium	ND	mg/L	0.0050	0.00011	1		02/23/22 19:59				
Cobalt	0.072	-		0.0011		02/23/22 14:19					
	0.072 0.0012J	mg/L	0.0050		1						
Copper		mg/L	0.0050	0.00050	1		02/23/22 19:59				
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19					
Lithium	0.0031J	mg/L	0.030	0.00073	1		02/23/22 19:59				
Molybdenum	ND	mg/L	0.010	0.00074	1		02/23/22 19:59				
Nickel	0.017	mg/L	0.0050	0.00071	1	02/23/22 14:19					
Selenium	ND	mg/L	0.0050	0.0014	1		02/23/22 19:59				
Silver	ND	mg/L	0.0050	0.00044	1	02/23/22 14:19					
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:59				
Vanadium	ND	mg/L	0.010	0.0019	1	02/23/22 14:19					
Zinc	0.014	mg/L	0.010	0.0070	1	02/23/22 14:19	02/23/22 19:59	7440-66-6			
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A					
	Pace Ana	lytical Services	- Peachtre	ee Corners, C	3A						
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 16:00	7439-97-6			
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015	5							
	Pace Ana	lytical Services	- Peachtre	ee Corners, C	βA						
Total Dissolved Solids	283	mg/L	10.0	10.0	1		02/15/22 16:03				
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993							
•	Pace Analytical Services - Asheville										
Chloride	5.7	mg/L	1.0	0.60	1		02/15/22 10:34	16887-00-6			
Fluoride	0.064J	mg/L	0.10	0.050	1		02/15/22 10:34				
Sulfate	107	mg/L	3.0	1.5	3		02/15/22 18:19				



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: UP-DUP-1	Lab ID:	92587091005	Collecte	ed: 02/08/22	2 00:00	Received: 02/	09/22 10:18 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Me	hod: El	PA 3010A			
	Pace Anal	ytical Services	- Peachtre	e Corners, 0	€A				
Calcium	25.6	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:36	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: El	PA 3005A			
	Pace Anal	ytical Services	- Peachtre	e Corners, 0	βA				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 20:05	7440-36-0	
Arsenic	0.0034J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:05	7440-38-2	В
Barium	0.034	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 20:05	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 20:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 20:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:05	7440-47-3	
Cobalt	0.055	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 20:05	7440-48-4	
Copper	0.0012J	mg/L	0.0050	0.00050	1	02/23/22 14:19	02/23/22 20:05	7440-50-8	
-ead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 20:05	7439-92-1	
_ithium	0.0027J	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 20:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 20:05	7439-98-7	
Nickel	0.014	mg/L	0.0050	0.00071	1	02/23/22 14:19	02/23/22 20:05	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:05	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/23/22 14:19	02/23/22 20:05	7440-22-4	
Γhallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:05	7440-28-0	
/anadium	ND	mg/L	0.010	0.0019	1	02/23/22 14:19	02/23/22 20:05	7440-62-2	
Zinc	0.012	mg/L	0.010	0.0070	1	02/23/22 14:19	02/23/22 20:05	7440-66-6	
7470 Mercury	Analytical	Method: EPA	7470A Prej	paration Met	hod: EF	PA 7470A			
	Pace Anal	ytical Services	- Peachtre	e Corners, 0	€A				
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 16:03	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Anal	ytical Services	- Peachtre	e Corners, 0	βA				
Total Dissolved Solids	271	mg/L	10.0	10.0	1		02/15/22 16:03		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Anal	ytical Services	- Asheville						
Chloride	5.7	mg/L	1.0	0.60	1		02/15/22 10:48	16887-00-6	
Fluoride	0.059J	mg/L	0.10	0.050	1		02/15/22 10:48	16984-48-8	
Sulfate	102	mg/L	2.0	1.0	2		02/15/22 18:34		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-1I	Lab ID:	92587091006	Collecte	ed: 02/09/22	2 13:45	Received: 02/	10/22 17:00 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME R				1		02/11/22 10:07		
рН	6.24	Std. Units			1		02/11/22 10:07		
6010D ATL ICP	•	Method: EPA 6 lytical Services				PA 3010A			
Calcium	2.1	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:50	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 lytical Services				PA 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 20:23	7440-36-0	
Arsenic	0.0033J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:23	7440-38-2	В
Barium	0.0088	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1		02/23/22 20:23		
Boron	ND	mg/L	0.040	0.0086	1		02/23/22 20:23		
Cadmium	ND	mg/L	0.00050	0.00011	1		02/23/22 20:23		
Chromium	ND	mg/L	0.0050	0.0011	1		02/23/22 20:23		
Cobalt	0.0023J	mg/L	0.0050	0.00039	1		02/23/22 20:23		
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 20:23		
Lithium	0.0027J	mg/L	0.030	0.00073	1	02/23/22 14:19			
Molybdenum	0.0055J	mg/L	0.010	0.00074	1		02/23/22 20:23		
Selenium	ND	mg/L	0.0050	0.0014	1		02/23/22 20:23		
Thallium	ND	mg/L	0.0010	0.00018	1		02/23/22 20:23		
7470 Mercury	Analytical	Method: EPA 7	470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 16:11	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	€A				
Total Dissolved Solids	57.0	mg/L	10.0	10.0	1		02/15/22 16:30	ı	
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	1.3	mg/L	1.0	0.60	1		02/16/22 13:32	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 13:32		
Sulfate	5.1	mg/L	1.0	0.50	1		02/16/22 13:32		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-1D	Lab ID:	92587091007	Collecte	d: 02/09/22	2 14:45	Received: 02/	/10/22 17:00 Ma	atrix: Water	
			Report						
Parameters	Results -	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME				1		02/11/22 10:07		
рН	R 7.12	Std. Units			1		02/11/22 10:07		
6010D ATL ICP	Analytical	Method: EPA 6	010D Prep	paration Me	thod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	βA				
Calcium	14.9	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:55	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Prep	aration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	3A				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 20:41	7440-36-0	
Arsenic	0.0031J	mg/L	0.0050	0.0011	1	02/23/22 14:19			В
Barium	0.0067	mg/L	0.0050	0.00067	1		02/23/22 20:41		_
Beryllium	ND	mg/L	0.00050	0.000054	1		02/23/22 20:41		
Boron	ND	mg/L	0.040	0.0086	1		02/23/22 20:41		
Cadmium	ND ND	mg/L	0.00050	0.00011	1		02/23/22 20:41		
Chromium	ND ND	mg/L	0.0050	0.00011	1		02/23/22 20:41		
Cobalt	0.00072J	-		0.0011					
		mg/L	0.0050		1		02/23/22 20:41		
Lead	ND	mg/L	0.0010	0.00089	1		02/23/22 20:41		
Lithium	0.013J	mg/L	0.030	0.00073	1		02/23/22 20:41		
Molybdenum	0.0093J	mg/L	0.010	0.00074	1		02/23/22 20:41		
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19			
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:41	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Prep	aration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	3A				
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 16:13	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	3A				
Total Dissolved Solids	105	mg/L	10.0	10.0	1		02/15/22 16:30		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	.1 1993					
•	Pace Ana	lytical Services	- Asheville						
Chloride	1.0	mg/L	1.0	0.60	1		02/16/22 13:46	16887-00-6	M1
Fluoride	0.057J	mg/L	0.10	0.050	1		02/16/22 13:46		M1
Sulfate	9.3	mg/L	1.0	0.50	1		02/16/22 13:46		M1



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Parameters Field Data	Results	Units	Report Limit	MDL					
	Analytical		Limit	MDI					
Field Data	•			IVIDE	DF	Prepared	Analyzed	CAS No.	Qua
	D A	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME				1		02/11/22 10:07		
рН	R 5.89	Std. Units			1		02/11/22 10:07		
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Met	hod: Ef	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	S A				
Calcium	23.4	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:59	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Prep	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	€A				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 20:47	7440-36-0	
Arsenic	0.0037J	mg/L	0.0050	0.0011	1	02/23/22 14:19			В
Barium	0.0029J	mg/L	0.0050	0.00067	1	02/23/22 14:19			
Beryllium	0.00230 ND	mg/L	0.0050	0.00007	1	02/23/22 14:19			
Boron	ND ND	•	0.040	0.000034	1	02/23/22 14:19			
Cadmium	ND ND	mg/L		0.0000	1		02/23/22 20:47		
		mg/L	0.00050						
Chromium	ND	mg/L	0.0050	0.0011	1		02/23/22 20:47		
Cobalt	ND	mg/L	0.0050	0.00039	1		02/23/22 20:47		
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19			
_ithium	0.0060J	mg/L	0.030	0.00073	1		02/23/22 20:47		
Molybdenum	0.0057J	mg/L	0.010	0.00074	1		02/23/22 20:47		
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:47		
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:47	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 16:16	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Total Dissolved Solids	156	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	1.0J	mg/L	1.0	0.60	1		02/16/22 14:28	16887-00-6	
Fluoride	0.094J	mg/L	0.10	0.050	1		02/16/22 14:28		
Sulfate	18.0	mg/L	1.0	0.50	1		02/16/22 14:28		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Parameters									
Parameters			Report						
- Tarameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME				1		02/11/22 10:07		
Н	R 7.66	Std. Units			1		02/11/22 10:07		
6010D ATL ICP	Analytical	Method: EPA 6	6010D Pre	paration Met	hod: El	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
Calcium	23.7	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 22:42	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Prep	paration Met	hod: Ef	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 17:09	7440-36-0	
Arsenic	0.0018J	mg/L	0.0050	0.0011	1		02/24/22 17:09		В
Barium	0.0031J	mg/L	0.0050	0.00067	1		02/24/22 17:09		
Beryllium	ND	mg/L	0.0050	0.00007	1		02/24/22 17:09		
Boron	ND ND	•	0.00030	0.000034	1		02/24/22 17:09		
Cadmium	ND ND	mg/L		0.0000	1		02/24/22 17:09		
		mg/L	0.00050						
Chromium	ND	mg/L	0.0050	0.0011	1		02/24/22 17:09		
Cobalt	ND	mg/L	0.0050	0.00039	1		02/24/22 17:09		
_ead	ND	mg/L	0.0010	0.00089	1		02/24/22 17:09		
_ithium	0.021J	mg/L	0.030	0.00073	1		02/24/22 17:09		
Molybdenum	0.0087J	mg/L	0.010	0.00074	1		02/24/22 17:09		
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 17:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 17:09	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prep	paration Met	hod: EF	PA 7470A			
·	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 13:46	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Total Dissolved Solids	145	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	1.1	mg/L	1.0	0.60	1		02/16/22 14:42	16887-00-6	
Fluoride	0.097J	mg/L	0.10	0.050	1		02/16/22 14:42		
Sulfate	16.0	mg/L	1.0	0.50	1		02/16/22 14:42		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-3D	Lab ID:	92587091010	Collecte	d: 02/09/22	2 10:20	Received: 02/	/10/22 17:00 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME R				1		02/11/22 10:07		
рН	7.97	Std. Units			1		02/11/22 10:07		
6010D ATL ICP	•	Method: EPA 6 lytical Services				PA 3010A			
Calcium	30.3	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 22:47	7440-70-2	M1
6020 MET ICPMS	•	Method: EPA 6 lytical Services				PA 3005A			
Antimony	0.0018J	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 17:33	7440-36-0	
Arsenic	0.0020J	mg/L	0.0050	0.0011	1		02/24/22 17:33		В
Barium	0.0051	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 17:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1		02/24/22 17:33		
Boron	0.010J	mg/L	0.040	0.0086	1		02/24/22 17:33		
Cadmium	ND	mg/L	0.00050	0.00011	1		02/24/22 17:33		
Chromium	ND	mg/L	0.0050	0.0011	1		02/24/22 17:33		
Cobalt	ND	mg/L	0.0050	0.00039	1		02/24/22 17:33		
Lead	ND	mg/L	0.0010	0.00089	1		02/24/22 17:33		
Lithium	0.026J	mg/L	0.030	0.00073	1		02/24/22 17:33		
Molybdenum	0.013	mg/L	0.010	0.00074	1		02/24/22 17:33		
Selenium	ND	mg/L	0.0050	0.0014	1		02/24/22 17:33		
Thallium	ND	mg/L	0.0010	0.00018	1		02/24/22 17:33		
7470 Mercury	Analytical	Method: EPA 7	7470A Prep	aration Met	hod: EF	A 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 13:48	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
Total Dissolved Solids	154	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	1.1	mg/L	1.0	0.60	1		02/16/22 14:55	16887-00-6	
Fluoride	0.43	mg/L	0.10	0.050	1		02/16/22 14:55		
Sulfate	7.2	mg/L	1.0	0.50	1		02/16/22 14:55		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: UP-EB-1	Lab ID:	92587091011		ed: 02/09/22	2 13:06	Received: 02/	/10/22 17:00 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	•	Method: EPA				PA 3010A			
Calcium	ND	mg/L	1.0	0.12	1	02/22/22 14:15	02/23/22 23:06	7440 70 2	
Salcium	ND	IIIg/∟	1.0	0.12	'	02/23/22 14.13	02/23/22 23.00	7440-70-2	
6020 MET ICPMS	•	Method: EPA ytical Service:		•		PA 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 17:39	7440-36-0	
Arsenic	0.0019J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:39	7440-38-2	В
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 17:39	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 17:39	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 17:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 17:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 17:39	7440-48-4	
∟ead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 17:39	7439-92-1	
_ithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 17:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 17:39	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 17:39	7782-49-2	
Γhallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 17:39	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prej	paration Met	thod: EF	PA 7470A			
	Pace Anal	ytical Services	s - Peachtre	e Corners, 0	GΑ				
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 13:51	7439-97-6	
2540C Total Dissolved Solids	•	Method: SM 2 ytical Services			ЭA				
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	•	Method: EPA ytical Services							
Chloride	ND	mg/L	1.0	0.60	1		02/16/22 15:09	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 15:09		
Sulfate	ND	mg/L	1.0	0.50	1		02/16/22 15:09		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: UP-FB-1	Lab ID:	92587091012		ed: 02/09/22	2 10:47	Received: 02/	10/22 17:00 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	•	Method: EPA				PA 3010A			
	Pace Anal	ytical Services	s - Peachtre	e Corners, C	SA.				
Calcium	ND	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:20	7440-70-2	
6020 MET ICPMS	•	Method: EPA ytical Services		•		PA 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 17:45	7440-36-0	
Arsenic	0.0018J	mg/L	0.0050	0.0011	1		02/24/22 17:45		В
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 17:45	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 17:45	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 17:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 17:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 17:45	7440-48-4	
_ead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 17:45	7439-92-1	
_ithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 17:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 17:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 17:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 17:45	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prej	paration Met	hod: EF	PA 7470A			
	Pace Anal	ytical Services	s - Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 13:53	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	2540C-2015						
	Pace Anal	ytical Services	s - Peachtre	e Corners, C	βA				
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	-	Method: EPA ytical Services							
Chloride	ND	mg/L	1.0	0.60	1		02/16/22 15:23	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 15:23		
Sulfate	ND	mg/L	1.0	0.50	1		02/16/22 15:23		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-17S	Lab ID:	92587091013	Collecte	ed: 02/09/22	2 10:20	Received: 02/	10/22 17:00 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME R				1		02/11/22 10:08		
рН	5.53	Std. Units			1		02/11/22 10:08		
6010D ATL ICP	•	Method: EPA 6				PA 3010A			
Calcium	2.8	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:25	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 lytical Services				PA 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 17:51	7440-36-0	
Arsenic	0.0024J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:51	7440-38-2	В
Barium	0.017	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 17:51	7440-39-3	
Beryllium	0.00011J	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 17:51	7440-41-7	
Boron	0.0098J	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 17:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 17:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 17:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 17:51	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 17:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1		02/24/22 17:51		
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 17:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1		02/24/22 17:51		
7470 Mercury	Analytical	Method: EPA	7470A Prep	aration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	€A.				
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 13:56	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Total Dissolved Solids	81.0	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	10.9	mg/L	1.0	0.60	1		02/16/22 16:55	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 16:55		
Sulfate	4.8	mg/L	1.0	0.50	1		02/16/22 16:55		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-18S	Lab ID:	92587091014	Collected	d: 02/09/2	2 12:24	Received: 02/	10/22 17:00 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME R				1		02/11/22 10:08		
pH	5.28	Std. Units			1		02/11/22 10:08		
6010D ATL ICP	Analytical	Method: EPA 6	6010D Prep	aration Me	thod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtree	Corners, 0	GΑ				
Calcium	0.87J	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:30	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Prep	aration Me	thod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtree	Corners, 0	GΑ				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:09	7440-36-0	
Arsenic	0.0024J	mg/L	0.0050	0.0011	1	02/23/22 14:12			В
Barium	0.014	mg/L	0.0050	0.00067	1		02/24/22 18:09		
Beryllium	0.000089J	mg/L		0.000054	1		02/24/22 18:09		
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12			
Cadmium	ND	mg/L	0.0050	0.00011	1	02/23/22 14:12			
Chromium	0.0014J	mg/L	0.0050	0.00011	1	02/23/22 14:12			В
Cobalt	0.00143 ND	mg/L	0.0050	0.00011	1		02/24/22 18:09		Ь
Lead	ND ND	mg/L	0.0030	0.00039	1	02/23/22 14:12			
Leau Lithium	0.0015J	•		0.00039	1	02/23/22 14:12			
		mg/L	0.030 0.010	0.00073	1	02/23/22 14:12			
Molybdenum	ND	mg/L							
Selenium	ND	mg/L	0.0050	0.0014	1		02/24/22 18:09		
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:09	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prepa	aration Met	thod: EF	A 7470A			
	Pace Ana	lytical Services	- Peachtree	Corners, 0	GΑ				
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 13:59	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtree	Corners, 0	GΑ				
Total Dissolved Solids	60.0	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2.	1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	7.0	mg/L	1.0	0.60	1		02/16/22 17:09	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 17:09		
Sulfate	1.1	mg/L	1.0	0.50	1		02/16/22 17:09		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-18I	Lab ID:	92587091015	Collecte	ed: 02/09/22	2 14:31	Received: 02/	10/22 17:00 N	latrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME R				1		02/11/22 10:08	1	
рН	5.98	Std. Units			1		02/11/22 10:08		
6010D ATL ICP	•	Method: EPA 6 lytical Services				PA 3010A			
Calcium	5.1	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:35	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 lytical Services				PA 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:15	7440-36-0	
Arsenic	0.0022J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:15	7440-38-2	В
Barium	0.021	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12			
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12			
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12			
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12			
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12			
Lithium	0.0032J	mg/L	0.030	0.00073	1	02/23/22 14:12			
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12			
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12			
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12			
7470 Mercury	Analytical	Method: EPA 7	7470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 14:07	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Total Dissolved Solids	103	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	7.5	mg/L	1.0	0.60	1		02/16/22 17:22	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 17:22		
Sulfate	0.51J	mg/L	1.0	0.50	1		02/16/22 17:22		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-20S	Lab ID:	92587091016	Collected	d: 02/09/22	2 16:19	Received: 02/	10/22 17:00 M	atrix: Water	
5 .	5	11.2	Report	MDI	D.F.	5		0404	•
Parameters	Results -	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME R				1		02/11/22 10:08		
рН	5.91	Std. Units			1		02/11/22 10:08		
6010D ATL ICP	•	Method: EPA				PA 3010A			
Calcium	2.3	lytical Services mg/L	1.0	0.12	1	02/22/22 14:15	02/23/22 23:40	7440 70 2	
Salcium	2.3	IIIg/∟	1.0	0.12	'	02/23/22 14.15	02/23/22 23.40	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6	•			A 3005A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	iΑ				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:21	7440-36-0	
Arsenic	0.0021J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:21	7440-38-2	В
Barium	0.014	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:21	7440-39-3	
Beryllium	0.000077J	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:21	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:21	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:21	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1		02/24/22 18:21		
Lead	ND	mg/L	0.0010	0.00089	1		02/24/22 18:21		
_ithium	0.00082J	mg/L	0.030	0.00073	1		02/24/22 18:21		
Molybdenum	ND	mg/L	0.010	0.00074	1		02/24/22 18:21		
Selenium	ND	mg/L	0.0050	0.0014	1		02/24/22 18:21		
Thallium	ND	mg/L	0.0010	0.00014	1		02/24/22 18:21		
		· ·					02/2 1/22 10:21	7 1 10 20 0	
7470 Mercury	•	Method: EPA 7 lytical Services	•			A 7470A			
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 14:09	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
20400 Total Dissolved Collas	•	lytical Services		Corners, C	€A				
Total Dissolved Solids	72.0	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	•	Method: EPA 3		1 1993					
Chloride	2.8	mg/L	1.0	0.60	1		02/16/22 17:36	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 17:36		
Sulfate	ND ND	mg/L	1.0	0.50	1		02/16/22 17:36		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-21I	Lab ID:	92587091017	Collecte	ed: 02/09/22	2 17:40	Received: 02/	10/22 17:00 N	latrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME R				1		02/11/22 10:08	1	
рН	6.84	Std. Units			1		02/11/22 10:08		
6010D ATL ICP	•	Method: EPA 6 lytical Services				PA 3010A			
Calcium	9.8	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:44	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 lytical Services				PA 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:27	7440-36-0	
Arsenic	0.0036J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:27	7440-38-2	В
Barium	0.011	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:27	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:27	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:27	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:27	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:27	7440-47-3	
Cobalt	0.0078	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:27	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:27	7439-92-1	
Lithium	0.0061J	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12			
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12			
7470 Mercury	Analytical	Method: EPA 7	7470A Prep	aration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	€A.				
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 14:12	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	θA				
Total Dissolved Solids	131	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	•	Method: EPA 3		2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	1.7	mg/L	1.0	0.60	1		02/17/22 02:57	16887-00-6	
Fluoride	0.10	mg/L	0.10	0.050	1		02/17/22 02:57		
Sulfate	3.9	mg/L	1.0	0.50	1		02/17/22 02:57		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-5I	Lab ID:	92587091018	Collecte	ed: 02/10/22	2 17:27	Received: 02/	11/22 16:45 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME R				1		02/14/22 11:36		
рН	5.14	Std. Units			1		02/14/22 11:36		
6010D ATL ICP	•	Method: EPA (PA 3010A			
Calcium	2.5	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:49	7440-70-2	
6020 MET ICPMS	•	Method: EPA (PA 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:33	7440-36-0	
Arsenic	0.0016J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:33	7440-38-2	В
Barium	0.020	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1		02/24/22 18:33		
Boron	ND	mg/L	0.040	0.0086	1		02/24/22 18:33		
Cadmium	ND	mg/L	0.00050	0.00011	1		02/24/22 18:33		
Chromium	ND	mg/L	0.0050	0.0011	1		02/24/22 18:33		
Cobalt	ND	mg/L	0.0050	0.00039	1		02/24/22 18:33		
Lead	ND	mg/L	0.0010	0.00089	1		02/24/22 18:33		
Lithium	0.0036J	mg/L	0.030	0.00073	1		02/24/22 18:33		
Molybdenum	ND	mg/L	0.010	0.00074	1		02/24/22 18:33		
Selenium	ND	mg/L	0.0050	0.0014	1		02/24/22 18:33		
Thallium	ND	mg/L	0.0010	0.00018	1		02/24/22 18:33		
7470 Mercury	Analytical	Method: EPA	7470A Prer	paration Met	hod: EF	PA 7470A			
•		lytical Services							
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 14:14	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	€A				
Total Dissolved Solids	77.0	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	4.4	mg/L	1.0	0.60	1		02/19/22 13:40	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 13:40		
Sulfate	2.4	mg/L	1.0	0.50	1		02/19/22 13:40		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: UP-DUP-3	Lab ID:	92587091019	Collecte	ed: 02/10/22	2 00:00	Received: 02/	11/22 16:45 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	hod: EF	PA 3010A			
	Pace Analy	tical Services	 Peachtre 	e Corners, C	S A				
Calcium	2.6	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:54	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: EF	'A 3005A			
	Pace Analy	tical Services	- Peachtre	e Corners, C	€A				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:39	7440-36-0	
Arsenic	0.0017J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:39	7440-38-2	В
Barium	0.020	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:39	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:39	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:39	7440-48-4	
₋ead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:39	7439-92-1	
_ithium	0.0037J	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:39	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:39	7782-49-2	
Γhallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:39	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Pre	paration Met	hod: EP	A 7470A			
	Pace Analy	tical Services	- Peachtre	e Corners, C	€A				
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 14:17	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015						
	Pace Analy	tical Services	- Peachtre	e Corners, C	βA				
Total Dissolved Solids	67.0	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0 Rev 2	2.1 1993					
	Pace Anal	tical Services	- Asheville						
Chloride	4.4	mg/L	1.0	0.60	1		02/19/22 14:20	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 14:20		
Sulfate	2.4	mg/L	1.0	0.50	1		02/19/22 14:20		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-14S	Lab ID:	92587091020	Collected	d: 02/10/22	2 16:20	Received: 02/	11/22 16:45 M	atrix: Water	
_			Report						
Parameters	Results -	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME				1		02/14/22 11:36		
рН	R 4.50	Std. Units			1		02/14/22 11:36		
6010D ATL ICP	Analytical	Method: EPA 6	6010D Prepa	aration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	SA.				
Calcium	1.3	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:59	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Prepa	aration Met	hod: EF	PA 3005A			
	•	lytical Services	•						
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:45	7440-36-0	
Arsenic	0.0016J	mg/L	0.0050	0.0011	1	02/23/22 14:12			В
Barium	0.0088	mg/L	0.0050	0.00067	1		02/24/22 18:45		
Beryllium	0.00025J	mg/L		0.000054	1		02/24/22 18:45		
Boron	0.020J	mg/L	0.040	0.0086	1	02/23/22 14:12			
Cadmium	ND	mg/L	0.00050	0.0000	1	02/23/22 14:12			
Chromium	ND	mg/L	0.0050	0.00011	1	02/23/22 14:12			
Cobalt	ND ND	mg/L	0.0050	0.00011	1		02/24/22 18:45		
Lead	ND ND	J		0.00039	1	02/23/22 14:12			
		mg/L	0.0010						
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12			
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12			
Selenium	0.0014J	mg/L	0.0050	0.0014	1		02/24/22 18:45		
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:45	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prepa	aration Met	hod: EP	A 7470A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	SA.				
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 10:38	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtree	Corners, C	S A				
Total Dissolved Solids	56.0	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2.	1 1993					
7-	•	lytical Services							
Chloride	4.7	mg/L	1.0	0.60	1		02/19/22 14:34	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 14:34		
Sulfate	6.2	mg/L	1.0	0.50	1		02/19/22 14:34		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: UP-DUP-2	Lab ID:	9258709102	1 Collecte	ed: 02/10/2	2 00:00	Received: 02/	'11/22 16:45 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
T didifficiers						- Tropared			
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Me	thod: El	PA 3010A			
	Pace Anal	ytical Service	s - Peachtre	e Corners, 0	GΑ				
Calcium	1.2	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:13	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Me	thod: El	PA 3005A			
	Pace Anal	ytical Service	s - Peachtre	e Corners, 0	GA				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:51	7440-36-0	
Arsenic	0.0015J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:51	7440-38-2	В
Barium	0.0084	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:51	7440-39-3	
Beryllium	0.00022J	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:51	7440-41-7	
Boron	0.018J	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:51	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:51	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prej	paration Met	thod: EF	PA 7470A			
·	Pace Anal	ytical Service	s - Peachtre	e Corners, 0	GA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 10:55	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	2540C-2015						
	Pace Anal	ytical Service	s - Peachtre	e Corners, 0	GΑ				
Total Dissolved Solids	53.0	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Anal	ytical Service	s - Asheville	:					
Chloride	4.7	mg/L	1.0	0.60	1		02/19/22 14:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 14:47	16984-48-8	
Sulfate	6.1	mg/L	1.0	0.50	1		02/19/22 14:47	14808-79-8	



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-30I	Lab ID:	92587091022	Collecte	ed: 02/11/22	09:20	Received: 02/	/11/22 16:45 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME				1		02/14/22 11:37		
рН	R 5.59	Std. Units			1		02/14/22 11:37		
6010D ATL ICP	Analytical	Method: EPA 6	6010D Pre	paration Met	hod: Ef	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
Calcium	1.5	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:18	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:57	7440-36-0	
Arsenic	0.0014J	mg/L	0.0050	0.0011	1		02/24/22 18:57		В
Barium	0.0077	mg/L	0.0050	0.00067	1		02/24/22 18:57		_
Beryllium	ND	mg/L	0.00050	0.000054	1		02/24/22 18:57		
Boron	ND	mg/L	0.040	0.0086	1		02/24/22 18:57		
Cadmium	ND	mg/L	0.00050	0.00011	1		02/24/22 18:57		
Chromium	ND	mg/L	0.0050	0.0011	1		02/24/22 18:57		
Cobalt	0.0038J	mg/L	0.0050	0.00011	1		02/24/22 18:57		
Lead	ND	mg/L	0.0030	0.00089	1		02/24/22 18:57		
Lithium	0.0014J	•	0.030	0.0003	1		02/24/22 18:57		
	0.00143 ND	mg/L mg/L	0.030	0.00073			02/24/22 18:57		
Molybdenum	ND ND	J		0.00074	1 1		02/24/22 18:57		
Selenium		mg/L	0.0050						
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:57	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	7470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 10:58	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
Total Dissolved Solids	66.0	mg/L	10.0	10.0	1		02/17/22 17:02		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
•	Pace Ana	lytical Services	- Asheville						
Chloride	2.1	mg/L	1.0	0.60	1		02/19/22 15:01	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 15:01		
Sulfate	2.8	mg/L	1.0	0.50	1		02/19/22 15:01		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-4I	Lab ID:	92587091023	Collecte	d: 02/11/22	2 10:40	Received: 02/	'11/22 16:45 M	atrix: Water	
			Report						
Parameters	Results -	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME R				1		02/14/22 11:37		
рН	5.95	Std. Units			1		02/14/22 11:37		
6010D ATL ICP	•	Method: EPA 6 lytical Services				PA 3010A			
Calcium	7.5	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:23	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6				A 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 19:03	7440-36-0	
Arsenic	0.0014J	mg/L	0.0050	0.00076	1	02/23/22 14:12			В
Barium	0.013	mg/L	0.0050	0.00067	1	02/23/22 14:12			Ь
Beryllium	ND	mg/L		0.00007	1	02/23/22 14:12			
Boron	ND ND	mg/L	0.00030	0.000054	1	02/23/22 14:12			
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12			
Chromium	ND	mg/L	0.0050	0.00011	1	02/23/22 14:12			
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12			
Lead	ND	mg/L	0.0030	0.00089	1	02/23/22 14:12			
Lithium	0.012J	mg/L	0.030	0.00073	1	02/23/22 14:12			
Molybdenum	ND	mg/L	0.030	0.00073	1	02/23/22 14:12			
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12			
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/22 14:12			
7470 Mercury	Analytical	Method: EPA	7470A Prep	aration Met	hod: EP	A 7470A			
· · · · · · · · · · · · · · · · · · ·	•	lytical Services				-			
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 11:01	7439-97-6	
2540C Total Dissolved Solids	•	Method: SM 2 lytical Services		e Corners, 0	ΘA				
Total Dissolved Solids	102	mg/L	10.0	10.0	1		02/17/22 17:02		
300.0 IC Anions 28 Days	•	Method: EPA 3		.1 1993					
Chloride	4.1	mg/L	1.0	0.60	1		02/19/22 15:14	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 15:14		
Sulfate	7.7	mg/L	1.0	0.50	1		02/19/22 15:14		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-5D	Lab ID:	92587091024	Collecte	d: 02/10/22	2 17:46	Received: 02/	11/22 16:45 M	latrix: Water	
_			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME R				1		02/14/22 11:37		
pΗ	6.99	Std. Units			1		02/14/22 11:37		
6010D ATL ICP	Analytical	Method: EPA	6010D Prep	aration Me	hod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	€A				
Calcium	24.8	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:27	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Prep	aration Met	hod: EF	PA 3005A			
	•	lytical Services							
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 19:20	7440-36-0	
Arsenic	0.0040J	mg/L	0.0050	0.0011	1	02/23/22 14:12			В
Barium	0.0084	mg/L	0.0050	0.00067	1	02/23/22 14:12			
Beryllium	ND	mg/L		0.000054	1	02/23/22 14:12			
Boron	0.011J	mg/L	0.040	0.0086	1	02/23/22 14:12			
Cadmium	ND	mg/L	0.0050	0.00011	1	02/23/22 14:12			
Chromium	ND ND	mg/L	0.0050	0.00011	1	02/23/22 14:12			
Cobalt	ND ND	mg/L	0.0050	0.00011	1	02/23/22 14:12			
	ND ND	•		0.00039		02/23/22 14:12			
_ead		mg/L	0.0010		1				
_ithium	0.0076J	mg/L	0.030	0.00073	1	02/23/22 14:12			
Molybdenum	0.00096J	mg/L	0.010	0.00074	1	02/23/22 14:12			
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12			
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 19:20	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prep	aration Met	hod: EF	A 7470A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	SA.				
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 11:03	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtree	Corners, C	βA				
Total Dissolved Solids	127	mg/L	10.0	10.0	1		02/17/22 16:07	•	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	.1 1993					
·	Pace Ana	lytical Services	s - Asheville						
Chloride	3.2	mg/L	1.0	0.60	1		02/19/22 15:54	16887-00-6	
Fluoride	0.055J	mg/L	0.10	0.050	1		02/19/22 15:54	16984-48-8	
Sulfate	4.9	mg/L	1.0	0.50	1		02/19/22 15:54		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: UP-EB-2	Lab ID:	9258709102	5 Collecte	ed: 02/10/2	2 11:40	Received: 02/	/11/22 16:45 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
						•			
6010D ATL ICP		Method: EPA				PA 3010A			
	Pace Anal	ytical Service	s - Peachtre	e Corners, (GA				
Calcium	ND	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:37	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Me	thod: El	PA 3005A			
	Pace Anal	ytical Service	s - Peachtre	e Corners, 0	GA				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 19:32	7440-36-0	
Arsenic	0.0028J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:32	7440-38-2	В
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 19:32	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 19:32	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 19:32	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 19:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:32	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 19:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 19:32	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 19:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 19:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 19:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 19:32	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prej	paration Met	thod: EF	PA 7470A			
	Pace Anal	ytical Service	s - Peachtre	e Corners, 0	GΑ				
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 11:06	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	2540C-2015						
	Pace Anal	ytical Service	s - Peachtre	e Corners, 0	GΑ				
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Anal	ytical Service	s - Asheville						
Chloride	ND	mg/L	1.0	0.60	1		02/19/22 16:08	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 16:08	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/19/22 16:08	14808-79-8	



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: UP-FB-2	Lab ID:	92587091026		ed: 02/10/22	2 17:13	Received: 02/	11/22 16:45 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	- — — — — Analytical	Method: EPA	6010D Pre	paration Me	hod: FF			-	-
		ytical Service							
Calcium	ND	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:42	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: EF	PA 3005A			
	•	ytical Service							
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 19:38	7440-36-0	
Arsenic	0.0026J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:38	7440-38-2	В
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 19:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 19:38	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 19:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 19:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 19:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 19:38	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 19:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 19:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 19:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 19:38	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prej	paration Met	hod: EF	PA 7470A			
·	-	ytical Service							
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 11:08	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	2540C-2015						
	Pace Anal	ytical Service	s - Peachtre	e Corners, 0	ЭΑ				
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Anal	ytical Service	s - Asheville						
Chloride	ND	mg/L	1.0	0.60	1		02/19/22 16:21	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 16:21	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/19/22 16:21	14808-79-8	



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

QC Batch: 680120 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007,

92587091008

METHOD BLANK: 3558408 Matrix: Water

Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007,

92587091008

ParameterUnitsBlank Reporting ResultReporting LimitMDLAnalyzedQualifiersCalciummg/LND1.00.1202/23/22 19:59

LABORATORY CONTROL SAMPLE: 3558409

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558410 3558411

MS MSD 92587089004 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual Calcium 9.3 10.5 20 1 10.5 117 119 75-125 0 mg/L

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.



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

LABORATORY CONTROL SAMPLE:

Calcium

Calcium

Date: 02/25/2022 02:44 PM

QC Batch: 680226 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

100

29.9

80-120

75-125

-45

20 M1

-12

Associated Lab Samples: 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015,

92587091016, 92587091017, 92587091018, 92587091019, 92587091020, 92587091021, 92587091022,

92587091023, 92587091024, 92587091025, 92587091026

METHOD BLANK: 3558817 Matrix: Water

3558818

mg/L

mg/L

Associated Lab Samples: 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015,

92587091016, 92587091017, 92587091018, 92587091019, 92587091020, 92587091021, 92587091022,

1.0J

30.2

92587091023, 92587091024, 92587091025, 92587091026

ParameterUnitsBlank ResultReporting LimitMDLAnalyzedQualifiersCalciummg/LND1.00.1202/23/22 22:33

Spike LCS LCS % Rec

Parameter Units Conc. Result % Rec Limits Qualifiers

30.3

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558819 3558820 MSD MS 92587091010 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD Qual

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.



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

QC Batch: 680115 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007,

92587091008

METHOD BLANK: 3558393 Matrix: Water

Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007,

92587091008

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/23/22 18:18	
Arsenic	mg/L	ND	0.0050	0.0011	02/23/22 18:18	
Barium	mg/L	ND	0.0050	0.00067	02/23/22 18:18	
Beryllium	mg/L	ND	0.00050	0.000054	02/23/22 18:18	
Boron	mg/L	ND	0.040	0.0086	02/23/22 18:18	
Cadmium	mg/L	ND	0.00050	0.00011	02/23/22 18:18	
Chromium	mg/L	ND	0.0050	0.0011	02/23/22 18:18	
Cobalt	mg/L	ND	0.0050	0.00039	02/23/22 18:18	
Copper	mg/L	ND	0.0050	0.00050	02/23/22 18:18	
Lead	mg/L	ND	0.0010	0.00089	02/23/22 18:18	
Lithium	mg/L	ND	0.030	0.00073	02/23/22 18:18	
Molybdenum	mg/L	ND	0.010	0.00074	02/23/22 18:18	
Nickel	mg/L	ND	0.0050	0.00071	02/23/22 18:18	
Selenium	mg/L	ND	0.0050	0.0014	02/23/22 18:18	
Silver	mg/L	ND	0.0050	0.00044	02/23/22 18:18	
Thallium	mg/L	ND	0.0010	0.00018	02/23/22 18:18	
Vanadium	mg/L	ND	0.010	0.0019	02/23/22 18:18	
Zinc	mg/L	ND	0.010	0.0070	02/23/22 18:18	

LABORATORY CONTROL SAMPLE:	3558394					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Arsenic	mg/L	0.1	0.11	106	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	111	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Copper	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.11	107	80-120	
Nickel	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.11	105	80-120	
Silver	mg/L	0.1	0.10	104	80-120	

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



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

LABORATORY CONTROL SAMPLE: 3558394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	mg/L	0.1	0.10	101	80-120	
Vanadium	mg/L	0.1	0.11	107	80-120	
Zinc	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX	SPIKE DUPLIC	ATE: 3558	395		3558396							
Parameter	9 Units	2587089002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	105	108	75-125	3	20	
Arsenic	mg/L	0.0021J	0.1	0.1	0.10	0.11	103	105	75-125	2	20	
Barium	mg/L	0.083	0.1	0.1	0.18	0.18	92	100	75-125	4	20	
Beryllium	mg/L	ND	0.1	0.1	0.11	0.10	105	102	75-125	3	20	
Boron	mg/L	2.4	1	1	3.4	3.6	100	115	75-125	4	20	
Cadmium	mg/L	0.00033J	0.1	0.1	0.10	0.10	101	102	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.11	104	105	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	1	20	
Copper	mg/L	0.0016J	0.1	0.1	0.10	0.10	99	98	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20	
Lithium	mg/L	0.0076J	0.1	0.1	0.11	0.11	103	103	75-125	0	20	
Molybdenum	mg/L	0.0011J	0.1	0.1	0.11	0.11	107	109	75-125	2	20	
Nickel	mg/L	0.0024J	0.1	0.1	0.11	0.11	104	104	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	2	20	
Silver	mg/L	ND	0.1	0.1	0.10	0.10	102	103	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.097	97	97	75-125	1	20	
Vanadium	mg/L	ND	0.1	0.1	0.11	0.11	109	108	75-125	1	20	
Zinc	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	

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



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

QC Batch: 680225 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

 $Associated \ Lab \ Samples: \qquad 92587091009, \ 92587091010, \ 92587091011, \ 92587091012, \ 92587091013, \ 92587091014, \ 92587091015, \ 92587091014, \ 92587091016, \ 9258$

92587091016, 92587091017, 92587091018, 92587091019, 92587091020, 92587091021, 92587091022,

92587091023, 92587091024, 92587091025, 92587091026

METHOD BLANK: 3558813 Matrix: Water

Associated Lab Samples: 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015,

92587091016, 92587091017, 92587091018, 92587091019, 92587091020, 92587091021, 92587091022,

92587091023, 92587091024, 92587091025, 92587091026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/24/22 16:57	
Arsenic	mg/L	0.0015J	0.0050	0.0011	02/24/22 16:57	
Barium	mg/L	ND	0.0050	0.00067	02/24/22 16:57	
Beryllium	mg/L	ND	0.00050	0.000054	02/24/22 16:57	
Boron	mg/L	ND	0.040	0.0086	02/24/22 16:57	
Cadmium	mg/L	ND	0.00050	0.00011	02/24/22 16:57	
Chromium	mg/L	0.0019J	0.0050	0.0011	02/24/22 16:57	
Cobalt	mg/L	ND	0.0050	0.00039	02/24/22 16:57	
Lead	mg/L	ND	0.0010	0.00089	02/24/22 16:57	
Lithium	mg/L	ND	0.030	0.00073	02/24/22 16:57	
Molybdenum	mg/L	ND	0.010	0.00074	02/24/22 16:57	
Selenium	mg/L	ND	0.0050	0.0014	02/24/22 16:57	
Thallium	mg/L	ND	0.0010	0.00018	02/24/22 16:57	

LABORATORY CONTROL SAMPLE:	3558814					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Antimony	mg/L	0.1	0.11	105	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.0	102	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.11	106	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.11	110	80-120	
Molybdenum	mg/L	0.1	0.10	105	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

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



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 35588				MSD	3558816							
	!	92587091009	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	106	110	75-125	3	20	
Arsenic	mg/L	0.0018J	0.1	0.1	0.10	0.11	102	104	75-125	2	20	
Barium	mg/L	0.0031J	0.1	0.1	0.11	0.11	102	106	75-125	4	20	
Beryllium	mg/L	ND	0.1	0.1	0.11	0.10	106	105	75-125	1	20	
Boron	mg/L	ND	1	1	1.1	1.1	109	106	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	100	103	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.11	0.11	109	109	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	2	20	
Lithium	mg/L	0.021J	0.1	0.1	0.13	0.13	114	113	75-125	1	20	
Molybdenum	mg/L	0.0087J	0.1	0.1	0.12	0.12	107	110	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.099	0.10	98	103	75-125	5	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.10	98	101	75-125	3	20	

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



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

QC Batch: 678406 Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007,

92587091008

METHOD BLANK: 3550211 Matrix: Water

Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007,

92587091008

 Parameter
 Units
 Blank Reporting Result
 Reporting Limit
 MDL
 Analyzed
 Qualifiers

 Mercury
 mg/L
 ND
 0.00020
 0.00013
 02/16/22 14:36

MSD

LABORATORY CONTROL SAMPLE: 3550212

Date: 02/25/2022 02:44 PM

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers 86 Mercury mg/L 0.0025 0.0021 80-120

MS

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3550213 3550214

92587089001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual ND 0.0025 0.0025 0.0019 77 74 75-125 20 M1 Mercury 0.0018 mg/L

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.



YATES POOLED UPGRADIENT Project:

Pace Project No.: 92587091

Mercury

Date: 02/25/2022 02:44 PM

QC Batch: 678756 Analysis Method: EPA 7470A QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury

> Laboratory: Pace Analytical Services - Peachtree Corners, GA

92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, Associated Lab Samples:

92587091016, 92587091017, 92587091018, 92587091019

METHOD BLANK: 3551942 Matrix: Water

92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, Associated Lab Samples: Blank

92587091016, 92587091017, 92587091018, 92587091019

Parameter Units Limit MDL Qualifiers Result Analyzed mg/L ND 0.00020 0.00013 02/18/22 13:04

Reporting

LABORATORY CONTROL SAMPLE: 3551943

LCS LCS % Rec Spike Units Result % Rec Limits Qualifiers Parameter Conc. Mercury mg/L 0.0025 0.0023 92 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551944 3551945

MSD MS

92588161001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual ND 0.0025 0.0022 20 Mercury 0.0025 0.0022 88 87 75-125 mg/L

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.



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

QC Batch: 679675 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

METHOD BLANK: 3556124 Matrix: Water

Associated Lab Samples: 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Mercury mg/L ND 0.00020 0.00013 02/22/22 10:33

LABORATORY CONTROL SAMPLE: 3556125

Spike LCS LCS % Rec Result Limits Qualifiers Parameter Units Conc. % Rec Mercury 0.0025 0.0027 108 80-120 mg/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3556126 3556127

MSD MS 92587091020 Spike Spike MS MSD MS MSD % Rec Max Parameter Units **RPD** RPD Result Conc. Conc. Result Result % Rec % Rec Limits Qual Mercury mg/L ND 0.0025 0.0025 0.0024 0.0026 96 101 75-125 5 20

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



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

QC Batch: 678110 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: 92587091001, 92587091002

METHOD BLANK: 3548928 Matrix: Water

Associated Lab Samples: 92587091001, 92587091002

Parameter Units Result Limit MDL Analyzed Qualifiers

Total Dissolved Solids mg/L ND 10.0 02/14/22 15:13

LABORATORY CONTROL SAMPLE: 3548929

Spike LCS LCS % Rec
Parameter Units Conc. Result % Rec Limits Qualifiers

Total Dissolved Solids mg/L 400 379 95 80-120

SAMPLE DUPLICATE: 3548930

Parameter Units Pesult Result RPD Max Result RPD Qualifiers

Total Dissolved Solids mg/L 299 297 1 25

SAMPLE DUPLICATE: 3548931

Date: 02/25/2022 02:44 PM

Parameter Units Parameter Units Parameter Units Parameter Units Parameter Units Parameter Parameter Units Parameter Result Result RPD RPD Qualifiers ND ND S25

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.



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

QC Batch: 678369 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: 92587091003, 92587091004, 92587091005

METHOD BLANK: 3550014 Matrix: Water

Associated Lab Samples: 92587091003, 92587091004, 92587091005

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Total Dissolved Solids mg/L ND 10.0 02/15/22 16:02

LABORATORY CONTROL SAMPLE: 3550015

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

SAMPLE DUPLICATE: 3550016

 Parameter
 Units
 92587091003 Result
 Dup Result
 Max RPD
 RPD
 Qualifiers

 Total Dissolved Solids
 mg/L
 151
 152
 1
 25

SAMPLE DUPLICATE: 3550017

Date: 02/25/2022 02:44 PM

92587322007 Dup Max RPD RPD Parameter Units Result Result Qualifiers Total Dissolved Solids 1160 7 mg/L 1080 25

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.



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Parameter

Total Dissolved Solids

Date: 02/25/2022 02:44 PM

QC Batch: 678370 Analysis Method: SM 2540C-2015

Units

mg/L

QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

% Rec

37.0

Limits

3

Qualifiers

25

Associated Lab Samples: 92587091006, 92587091007, 92587091008, 92587091009, 92587091010, 92587091011, 92587091012,

92587091013, 92587091014, 92587091015, 92587091016, 92587091017

METHOD BLANK: 3550019 Matrix: Water

Associated Lab Samples: 92587091006, 92587091007, 92587091008, 92587091009, 92587091010, 92587091011, 92587091012,

92587091013, 92587091014, 92587091015, 92587091016, 92587091017

Conc.

Blank Reporting Units Limit MDL Qualifiers Parameter Result Analyzed mg/L **Total Dissolved Solids** ND 10.0 10.0 02/15/22 16:29 LABORATORY CONTROL SAMPLE: 3550020 LCS LCS % Rec Spike

Result

Total Dissolved Solids mg/L 400 394 98 80-120 SAMPLE DUPLICATE: 3550021 92587705001 Dup Max **RPD RPD** Parameter Units Result Result Qualifiers

36.0

SAMPLE DUPLICATE: 3550022 92587091011 Dup Max RPD RPD Parameter Units Result Result Qualifiers **Total Dissolved Solids** mg/L ND ND 25

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.

Qualifiers

Analyzed



QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

QC Batch: 679091 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: 92587091018, 92587091019, 92587091020, 92587091021, 92587091024, 92587091025, 92587091026

METHOD BLANK: 3553375 Matrix: Water

Associated Lab Samples: 92587091018, 92587091019, 92587091020, 92587091021, 92587091024, 92587091025, 92587091026

Blank Reporting
Units Result Limit MDL

Total Dissolved Solids mg/L ND 10.0 10.0 02/17/22 16:05

LABORATORY CONTROL SAMPLE: 3553376

Spike LCS LCS % Rec
Parameter Units Conc. Result % Rec Limits Qualifiers

Total Dissolved Solids mg/L 400 374 94 80-120

SAMPLE DUPLICATE: 3553377

Parameter

92587319023 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers 299 **Total Dissolved Solids** 0 mg/L 300 25

SAMPLE DUPLICATE: 3553378

Date: 02/25/2022 02:44 PM

92587089012 Dup Max RPD RPD Parameter Units Result Result Qualifiers Total Dissolved Solids 190 2 mg/L 186 25

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.



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

QC Batch: 679094 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: 92587091022, 92587091023

METHOD BLANK: 3553381 Matrix: Water

Associated Lab Samples: 92587091022, 92587091023

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Total Dissolved Solids mg/L ND 10.0 10.0 02/17/22 17:00

LABORATORY CONTROL SAMPLE: 3553382

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units **Total Dissolved Solids** mg/L 365 91 80-120

SAMPLE DUPLICATE: 3553383

92587090008 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers 772 **Total Dissolved Solids** mg/L 800 4 25

SAMPLE DUPLICATE: 3553384

Date: 02/25/2022 02:44 PM

92587090019 Dup Max RPD RPD Parameter Units Result Result Qualifiers Total Dissolved Solids 48.0 mg/L 58.0 19 25

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.



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

QC Batch Method:

678235

QC Batch:

Analysis Method:

EPA 300.0 Rev 2.1 1993

Analysis Description:

300.0 IC Anions

Laboratory:

Pace Analytical Services - Asheville

92587091001, 92587091002 Associated Lab Samples:

EPA 300.0 Rev 2.1 1993

METHOD BLANK:

Date: 02/25/2022 02:44 PM

Matrix: Water

Associated Lab Samples: 92587091001, 92587091002

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/15/22 01:58	
Fluoride	mg/L	ND	0.10	0.050	02/15/22 01:58	
Sulfate	mg/L	ND	1.0	0.50	02/15/22 01:58	

LABORATORY CONTROL SAMPLE: 3549594 Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Chloride 50 104 mg/L 51.8 90-110 Fluoride 2.5 101 mg/L 2.5 90-110 Sulfate 51.0 mg/L 50 102 90-110

MATRIX SPIKE & MATRIX SP												
		0050500010	MS	MSD		1405		1405	0/ 5			
		92585602018	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	10.2	50	50	64.0	63.6	108	107	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	106	105	90-110	1	10	
Sulfate	mg/L	20.0	50	50	73.7	73.7	107	107	90-110	0	10	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3549	3549598									
			MS	MSD								
		92587089005	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	ND	50	50	52.3	53.6	105	107	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	104	107	90-110	3	10	
Sulfate	mg/L	ND	50	50	52.2	53.5	104	107	90-110	2	10	

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



Project: YATES POOLED UPGRADIENT

LABORATORY CONTROL SAMPLE: 2540600

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

QC Batch Method:

QC Batch: 678236

236 Analysis Method:

EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Asheville

EPA 300.0 Rev 2.1 1993

Associated Lab Samples: 92587091003, 92587091004, 92587091005

METHOD BLANK: 3549599 Matrix: Water

Associated Lab Samples: 92587091003, 92587091004, 92587091005

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/15/22 09:24	
Fluoride	mg/L	ND	0.10	0.050	02/15/22 09:24	
Sulfate	mg/L	ND	1.0	0.50	02/15/22 09:24	

LABORATORY CONTROL SAMPLE.	3549600					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Chloride	mg/L	50	51.3	103	90-110	
Fluoride	mg/L	2.5	2.5	98	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3549		3549602								
		00507004000	MS	MSD		1405		1405	0/ D			
		92587091003	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	3.2	50	50	56.7	57.6	107	109	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.8	2.8	110	112	90-110	2	10	M1
Sulfate	mg/L	50.9	50	50	87.2	88.3	73	75	90-110	1	10	M1

MATRIX SPIKE & MATRIX SF	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549603 3549604											
			MS	MSD								
		92587240001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	9.5	50	50	2.9	2.9	-13	-13	90-110	1	10	M1
Fluoride	mg/L	0.29	2.5	2.5	0.11	0.11	-7	-7	90-110	2	10	M1
Sulfate	mg/L	1.5	50	50	2.4	2.3	2	2	90-110	2	10	M1

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



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

QC Batch: 678537 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: 92587091006, 92587091007, 92587091008, 92587091009, 92587091010, 92587091011, 92587091012,

92587091013, 92587091014, 92587091015, 92587091016

METHOD BLANK: 3551059 Matrix: Water

Associated Lab Samples: 92587091006, 92587091007, 92587091008, 92587091009, 92587091010, 92587091011, 92587091012,

92587091013, 92587091014, 92587091015, 92587091016

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/16/22 09:35	
Fluoride	mg/L	ND	0.10	0.050	02/16/22 09:35	
Sulfate	mg/L	ND	1.0	0.50	02/16/22 09:35	

LABORATORY CONTROL SAMPLE:	3551060					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Chloride	mg/L	50	50.8	102	90-110	
Fluoride	mg/L	2.5	2.4	95	90-110	
Sulfate	mg/L	50	50.3	101	90-110	

MATRIX SPIKE & MATRIX SP	PIKE DUPLI	CATE: 3551	061		3551062							
Parameter	(Units	92585949014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND ND	50	50	62.2	59.5	124	119	90-110	4	10	M1
Fluoride	mg/L	ND	2.5	2.5	3.0	2.9	120	114	90-110	5	10	M1
Sulfate	mg/L	ND	50	50	62.0	59.6	124	119	90-110	4	10	M1

MATRIX SPIKE & MATRIX SI	PIKE DUPLI	ICATE: 3551	063	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551063 3551064										
Parameter	Units	92587091007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual		
Chloride	mg/L	1.0	50	50	63.8	61.5	126	121	90-110	4	10	M1		
Fluoride	mg/L	0.057J	2.5	2.5	3.1	3.0	123	119	90-110	3	10	M1		
Sulfate	mg/L	9.3	50	50	71.8	69.6	125	121	90-110	3	10	M1		

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



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

QC Batch: 678877

QC Batch Method: EPA 300.0 Rev 2.1 1993

Analysis Method: EPA 300.0 Rev 2.1 1993

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92587091017

METHOD BLANK: 3552679

Date: 02/25/2022 02:44 PM

Matrix: Water

Associated Lab Samples: 92587091017

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND ND	1.0	0.60	02/17/22 01:57	
Fluoride	mg/L	ND	0.10	0.050	02/17/22 01:57	
Sulfate	mg/L	ND	1.0	0.50	02/17/22 01:57	

LABORATORY CONTROL SAMPLE:	3552680					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Chloride	mg/L	50	48.3	97	90-110	
Fluoride	mg/L	2.5	2.3	91	90-110	
Sulfate	mg/L	50	47.1	94	90-110	

MATRIX SPIKE & MATRIX SP		3552682										
		00507004047	MS	MSD		1405		1405	0/ D			
		92587091017	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	1.7	50	50	50.7	51.6	98	100	90-110	2	10	
Fluoride	mg/L	0.10	2.5	2.5	2.5	2.6	97	99	90-110	2	10	
Sulfate	mg/L	3.9	50	50	52.8	53.7	98	100	90-110	2	10	

MATRIX SPIKE & MATRIX SF	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552683 3552684											
			MS	MSD								
		92587687006	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	ND	50	50	51.0	51.1	102	102	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	101	99	90-110	1	10	
Sulfate	mg/L	ND	50	50	50.8	50.8	101	101	90-110	0	10	

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



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

QC Batch: 679365 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: 92587091018, 92587091019, 92587091020, 92587091021, 92587091022, 92587091023, 92587091024,

92587091025, 92587091026

METHOD BLANK: 3554816 Matrix: Water

Associated Lab Samples: 92587091018, 92587091019, 92587091020, 92587091021, 92587091022, 92587091023, 92587091024,

92587091025, 92587091026

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/19/22 13:13	
Fluoride	mg/L	ND	0.10	0.050	02/19/22 13:13	
Sulfate	mg/L	ND	1.0	0.50	02/19/22 13:13	

LABORATORY CONTROL SAMPLE:	3554817	Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Chloride	mg/L	50	51.6	103	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	51.5	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554818												
			MS	MSD								
		92587091018	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	4.4	50	50	54.8	55.6	101	102	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	104	106	90-110	2	10	
Sulfate	mg/L	2.4	50	50	52.5	53.6	100	102	90-110	2	10	

MATRIX SPIKE & MATRIX SP	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554820											
			MS	MSD								
		92587090007	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	4.2	50	50	55.9	56.1	103	104	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	3.0	3.1	121	123	90-110	1	10	M1
Sulfate	mg/L	452	50	50	488	491	73	78	90-110	1	10	M1

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



QUALIFIERS

Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

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

Date: 02/25/2022 02:44 PM

B Analyte was detected in the associated method blank.

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



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

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_ab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
2587091001	YGWA-39			_	
2587091002	YGWA-40				
2587091003	YGWA-47				
2587091004	GWA-2				
2587091006	YGWA-1I				
2587091007	YGWA-1D				
2587091008	YGWA-2I				
2587091009	YGWA-3I				
2587091010	YGWA-3D				
2587091013	YGWA-17S				
2587091014	YGWA-18S				
2587091015	YGWA-18I				
2587091016	YGWA-20S				
2587091017	YGWA-21I				
2587091018	YGWA-5I				
2587091020	YGWA-14S				
2587091022	YGWA-30I				
2587091023	YGWA-4I				
2587091024	YGWA-5D				
2587091001	YGWA-39	EPA 3010A	680120	EPA 6010D	680402
2587091002	YGWA-40	EPA 3010A	680120	EPA 6010D	680402
2587091003	YGWA-47	EPA 3010A	680120	EPA 6010D	680402
2587091004	GWA-2	EPA 3010A	680120	EPA 6010D	680402
2587091005	UP-DUP-1	EPA 3010A	680120	EPA 6010D	680402
2587091006	YGWA-1I	EPA 3010A	680120	EPA 6010D	680402
2587091007	YGWA-1D	EPA 3010A	680120	EPA 6010D	680402
2587091008	YGWA-2I	EPA 3010A	680120	EPA 6010D	680402
2587091009	YGWA-3I	EPA 3010A	680226	EPA 6010D	680419
2587091010	YGWA-3D	EPA 3010A	680226	EPA 6010D	680419
2587091011	UP-EB-1	EPA 3010A	680226	EPA 6010D	680419
2587091012	UP-FB-1	EPA 3010A	680226	EPA 6010D	680419
2587091013	YGWA-17S	EPA 3010A	680226	EPA 6010D	680419
2587091014	YGWA-18S	EPA 3010A	680226	EPA 6010D	680419
2587091015	YGWA-18I	EPA 3010A	680226	EPA 6010D	680419
2587091016	YGWA-20S	EPA 3010A	680226	EPA 6010D	680419
2587091017	YGWA-21I	EPA 3010A	680226	EPA 6010D	680419
2587091018	YGWA-5I	EPA 3010A	680226	EPA 6010D	680419
2587091019	UP-DUP-3	EPA 3010A	680226	EPA 6010D	680419
2587091020	YGWA-14S	EPA 3010A	680226	EPA 6010D	680419
2587091021	UP-DUP-2	EPA 3010A	680226	EPA 6010D	680419
2587091022	YGWA-30I	EPA 3010A	680226	EPA 6010D	680419
2587091023	YGWA-4I	EPA 3010A	680226	EPA 6010D	680419
2587091024	YGWA-5D	EPA 3010A	680226	EPA 6010D	680419
587091025	UP-EB-2	EPA 3010A	680226	EPA 6010D	680419
2587091026	UP-FB-2	EPA 3010A	680226	EPA 6010D	680419
2587091001	YGWA-39	EPA 3005A	680115	EPA 6020B	680441
2587091002	YGWA-40	EPA 3005A	680115	EPA 6020B	680441



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
92587091003	YGWA-47	EPA 3005A	680115	EPA 6020B	680441
92587091004	GWA-2	EPA 3005A	680115	EPA 6020B	680441
2587091005	UP-DUP-1	EPA 3005A	680115	EPA 6020B	680441
2587091006	YGWA-1I	EPA 3005A	680115	EPA 6020B	680441
2587091007	YGWA-1D	EPA 3005A	680115	EPA 6020B	680441
2587091008	YGWA-2I	EPA 3005A	680115	EPA 6020B	680441
2587091009	YGWA-3I	EPA 3005A	680225	EPA 6020B	680450
2587091010	YGWA-3D	EPA 3005A	680225	EPA 6020B	680450
2587091011	UP-EB-1	EPA 3005A	680225	EPA 6020B	680450
2587091012	UP-FB-1	EPA 3005A	680225	EPA 6020B	680450
2587091013	YGWA-17S	EPA 3005A	680225	EPA 6020B	680450
2587091014	YGWA-18S	EPA 3005A	680225	EPA 6020B	680450
2587091015	YGWA-18I	EPA 3005A	680225	EPA 6020B	680450
2587091016	YGWA-20S	EPA 3005A	680225	EPA 6020B	680450
2587091017	YGWA-21I	EPA 3005A	680225	EPA 6020B	680450
2587091018	YGWA-5I	EPA 3005A	680225	EPA 6020B	680450
2587091019	UP-DUP-3	EPA 3005A	680225	EPA 6020B	680450
2587091020	YGWA-14S	EPA 3005A	680225	EPA 6020B	680450
2587091021	UP-DUP-2	EPA 3005A	680225	EPA 6020B	680450
2587091022	YGWA-30I	EPA 3005A	680225	EPA 6020B	680450
2587091023	YGWA-4I	EPA 3005A	680225	EPA 6020B	680450
2587091024	YGWA-5D	EPA 3005A	680225	EPA 6020B	680450
2587091025	UP-EB-2	EPA 3005A	680225	EPA 6020B	680450
2587091026	UP-FB-2	EPA 3005A	680225	EPA 6020B	680450
2587091001	YGWA-39	EPA 7470A	678406	EPA 7470A	678665
2587091002	YGWA-40	EPA 7470A	678406	EPA 7470A	678665
2587091003	YGWA-47	EPA 7470A	678406	EPA 7470A	678665
2587091004	GWA-2	EPA 7470A	678406	EPA 7470A	678665
258709100 4 2587091005	UP-DUP-1	EPA 7470A	678406	EPA 7470A	678665
2587091006	YGWA-1I	EPA 7470A	678406	EPA 7470A	678665
2587091007	YGWA-1D	EPA 7470A	678406	EPA 7470A	678665
2587091008	YGWA-2I	EPA 7470A	678406	EPA 7470A	678665
2587091009	YGWA-3I	EPA 7470A	678756	EPA 7470A	679374
2587091010	YGWA-3D	EPA 7470A	678756	EPA 7470A	679374
2587091011	UP-EB-1	EPA 7470A	678756	EPA 7470A	679374
2587091011 2587091012	UP-FB-1	EPA 7470A	678756	EPA 7470A	679374
2587091012 2587091013	YGWA-17S	EPA 7470A	678756	EPA 7470A	679374
2587091013 2587091014	YGWA-18S	EPA 7470A	678756	EPA 7470A EPA 7470A	679374
2587091014 2587091015	YGWA-18I	EPA 7470A EPA 7470A	678756	EPA 7470A EPA 7470A	679374
2587091015 2587091016	YGWA-20S	EPA 7470A EPA 7470A		EPA 7470A EPA 7470A	679374
2587091016 2587091017	YGWA-205 YGWA-21I	EPA 7470A EPA 7470A	678756 678756		679374
	YGWA-211			EPA 7470A	
2587091018 2587091019	VGWA-51 UP-DUP-3	EPA 7470A EPA 7470A	678756 678756	EPA 7470A EPA 7470A	679374 679374
2587091020	YGWA-14S	EPA 7470A	679675	EPA 7470A	679921
2587091021	UP-DUP-2	EPA 7470A	679675	EPA 7470A	679921
2587091022	YGWA-30I	EPA 7470A	679675	EPA 7470A	679921
2587091023	YGWA-4I	EPA 7470A	679675	EPA 7470A	679921



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
92587091024	YGWA-5D	EPA 7470A	679675	EPA 7470A	679921
92587091025	UP-EB-2	EPA 7470A	679675	EPA 7470A	679921
2587091026	UP-FB-2	EPA 7470A	679675	EPA 7470A	679921
92587091001	YGWA-39	SM 2540C-2015	678110		
92587091002	YGWA-40	SM 2540C-2015	678110		
92587091003	YGWA-47	SM 2540C-2015	678369		
92587091004	GWA-2	SM 2540C-2015	678369		
2587091005	UP-DUP-1	SM 2540C-2015	678369		
2587091006	YGWA-1I	SM 2540C-2015	678370		
2587091007	YGWA-1D	SM 2540C-2015	678370		
2587091008	YGWA-2I	SM 2540C-2015	678370		
2587091009	YGWA-3I	SM 2540C-2015	678370		
2587091010	YGWA-3D	SM 2540C-2015	678370		
2587091011	UP-EB-1	SM 2540C-2015	678370		
2587091012	UP-FB-1	SM 2540C-2015	678370		
2587091013	YGWA-17S	SM 2540C-2015	678370		
2587091014	YGWA-18S	SM 2540C-2015	678370		
2587091015	YGWA-18I	SM 2540C-2015	678370		
2587091016	YGWA-20S	SM 2540C-2015	678370		
2587091017	YGWA-21I	SM 2540C-2015	678370		
2587091018	YGWA-5I	SM 2540C-2015	679091		
2587091019	UP-DUP-3	SM 2540C-2015	679091		
2587091020	YGWA-14S	SM 2540C-2015	679091		
2587091021	UP-DUP-2	SM 2540C-2015	679091		
2587091022	YGWA-30I	SM 2540C-2015	679094		
2587091023	YGWA-4I	SM 2540C-2015	679094		
2587091024	YGWA-5D	SM 2540C-2015	679091		
2587091025	UP-EB-2	SM 2540C-2015	679091		
2587091026	UP-FB-2	SM 2540C-2015	679091		
2587091001	YGWA-39	EPA 300.0 Rev 2.1 1993	678235		
92587091002	YGWA-40	EPA 300.0 Rev 2.1 1993	678235		
2587091003	YGWA-47	EPA 300.0 Rev 2.1 1993	678236		
2587091004	GWA-2	EPA 300.0 Rev 2.1 1993	678236		
2587091005	UP-DUP-1	EPA 300.0 Rev 2.1 1993	678236		
2587091006	YGWA-1I	EPA 300.0 Rev 2.1 1993	678537		
2587091007	YGWA-1D	EPA 300.0 Rev 2.1 1993	678537		
2587091008	YGWA-2I	EPA 300.0 Rev 2.1 1993	678537		
2587091009	YGWA-3I	EPA 300.0 Rev 2.1 1993	678537		
2587091010	YGWA-3D	EPA 300.0 Rev 2.1 1993	678537		
2587091011	UP-EB-1	EPA 300.0 Rev 2.1 1993	678537		
2587091012	UP-FB-1	EPA 300.0 Rev 2.1 1993	678537		
2587091013	YGWA-17S	EPA 300.0 Rev 2.1 1993	678537		
2587091014	YGWA-18S	EPA 300.0 Rev 2.1 1993	678537		
2587091015	YGWA-18I	EPA 300.0 Rev 2.1 1993	678537		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
92587091016	YGWA-20S	EPA 300.0 Rev 2.1 1993	678537		
92587091017	YGWA-21I	EPA 300.0 Rev 2.1 1993	678877		
92587091018	YGWA-5I	EPA 300.0 Rev 2.1 1993	679365		
92587091019	UP-DUP-3	EPA 300.0 Rev 2.1 1993	679365		
92587091020	YGWA-14S	EPA 300.0 Rev 2.1 1993	679365		
92587091021	UP-DUP-2	EPA 300.0 Rev 2.1 1993	679365		
92587091022	YGWA-30I	EPA 300.0 Rev 2.1 1993	679365		
92587091023	YGWA-4I	EPA 300.0 Rev 2.1 1993	679365		
92587091024	YGWA-5D	EPA 300.0 Rev 2.1 1993	679365		
2587091025	UP-EB-2	EPA 300.0 Rev 2.1 1993	679365		
92587091026	UP-FB-2	EPA 300.0 Rev 2.1 1993	679365		

Pace Analytical*

Document Name:

Sample Condition Upon Receipt (SCUR)

Document No.: F-CAR-CS-033-Rev.08

Document Revised: November 15, 2021

Page 1 of 2

Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples: Asheville	łuntersville 🗌	Raleigh 🗌	Mechanicsville Atlanta Kernersville
Courier: Fed Ex UPS Commercial Pace Custody Seal Present? Yes No Seals Int Packing Material: Bubble Wrap Bubble Thermometer: Cooler Temp: Add/Subtract (*C)		Project Client No Other et Blue	Date/Initials Person Examining Contents: 2/9/2. Biological Tissue Frozen? Yes No MYA Temp should be above freezing to 6°C
Cooler Temp Corrected (°C): USDA Regulated Soil (N/A, water sample) Did samples originate in a quarantine zone within the United S	States: CA, NY, or SC (check maps)?	□ 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?	☐Yes ☐No [□N/A 1.	
		□N/A 2.	
Samples Arrived within Hold Time? Short Hold Time Analysis (<72 hr.)?		□N/A 2.	
Rush Turn Around Time Requested?		□N/A 4.	
Sufficient Volume?		□N/A 5.	
Correct Containers Used? -Pace Containers Used?	All the second of the second o	□n/a 6. □n/a	
-Pace Containers Osed:			
Containers Intact?		□N/A 7.	
Dissolved analysis: Samples Field Filtered?		N/A 8.	
Sample Labels Match COC?	□Yes □No [□N/A 9.	
-Includes Date/Time/ID/Analysis Matrix:	<u> </u>		
Headspace in VOA Vials (>5-6mm)?	100	9N/A 10.	
Trip Blank Present?	□Yes □No {	JN/A 11.	
Trip Blank Custody Seals Present?	□Yes □No L	N/A	
COMMENTS/SAMPLE DISCREPANCY			Field Data Required? ☐ Yes ☐ No
CLIENT NOTIFICATION/RESOLUTION		Lot	t ID of split containers:
Project Manager SCURF Review:			Date:
Project Manager SRF Review:			Date:

Pace Analytical*

Document Name: Sample Condition Upon Receipt (SCUR)

Document No.: F-CAR-CS-033-Rev.08 Document Revised: November 15, 2021 Page 2 of 2

Issuing Authority:

Project # WO#: 9258709

PM: NMG

Due Date: 02/23/22

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

	. RO	ttom	nan	OIL	JOX 1:	5 10 1	151 11	unit	<i>i</i> ei 0	i bot	cies																	
lem#	BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	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) (G-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP48-125 mL Plastic NaOH (pH > 12) (CI-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG1S-1 liter Amber H2SO4 [pH < 2]	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	8010	BP3A-250 mL Plastic (NH2)2504 (9.3-9.7)	AGOU-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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5	amole	ID	Typ	e of Pr	eserv	ative	pH	upor	recei	pt	Date	prese	rvatio	n adju	usted	T	ime p	reserv	ation		Amo	unt o	f Pres	ervativ	/6		Lot#	

		pH Ac	ljustment Log for Pres	erved Samples		
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot#

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (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.

	App IV: Beryllium Lithium 7040A:	App III	Anions		12	11	10	9	8	7	6	Ø1	4	3	2	-	ITEM#		Senber	Phone:	Email To:	П	Address:	Require	Section A
	App IV: Metals 6020B: Antimorry (Sb), Arsenic (As), Barium (Ba), Beryllum (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Librium (L), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	App III Metals: Beron 6020B, Ca 6010D; App VII 6020B; Zn, Ag, Ni, V	Anions Suite 300.0 (Cl. F. Sulfate)	ADDITIONAL COMMENTS	DP-FB-T	UP EB 1	XGWA-30I	URDUP-2	YOWA 145	Y6WA3B	XGWA 3I	YGWAZI	YGWA-18	YGWA-11	YGWA-40	YGWA-39	SAMPLE ID SAMPLE ID Solfoods One Character per box. (A-Z, 0-9 1, -) Sample ids must be unique Description Those		requested Due Date:	Fax			Atlanta, GA	Client Information:	P
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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.

	App IV: Berylliur Lithium 7040A:	App III A	Anions :		12	11	5	9	œ	7	6	5	4	3	2		ITEM#			conhora	Phone:	Email To:		Address	Require	Section A
	App N: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molyodenium (Mo), Selenium (Se) 7040A: Mercury (Hg)	App III Melals: Boron 6020B, Ca 6010D; App III 6020B; Zn Ap, Ni. V	Anions Suite 300.0 (Ct. F., Sulfate)	ADDITIONAL COMMENTS	WA-ZII-	XGWA-203	XGWA-181 70-	HOWA-188-24-	XGWA-175- Am	XCMW-50- MC	UP-BUP-3 - M	XBMWST M	XGWA-dT M	AP-BOB-1- Ave	GWA-2 - SA	YGWA-47	SAMPLE ID One Character per boox. (A-Z, 0-5 (-, -) Sample ids must be unique Taxon Taxon	MATRO		reduested one cate:	Fax	х.		Atlanta GA	I₩	•
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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.

			App IV: Berylliu Lithium 7040A:	App III	Arrions		12 -	11	10	9	8	7	6	Si -	4 -	3	2	1	Email To Phone:	Required Company
			App N: Metals 6020B: Artimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Ch), Cobalt (Co), Lead (Pb), Libhium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	App III Metals: Boron 6020B, Ce 6010D; App VII 6020B; Zn, Aq. Ni, V	Arrions Suite 300.0 (Cl, F. Sulfate)	ADDITIONAL COMMENTS	11-2-X-WOY	XCWA-208	YGWA 181	LIGWA-18S	*OW**176	WGWA-50	de Bue-3	YOWA-SI-	YGWA-II	UP-DUP-1	GWA-2	YGWA-II	Due Date: Fax Fax Due Date: Character per box. (A-Z, 0-9)) Sample kds must be unique	量
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Georgia Power Co. – Plant Yates

Data Review Report

Radium Analyses

SDG #92587081

Analyses Performed By:

Pace Analytical Services - Greensburg, Pennsylvania

Report #45262R Review Level: Tier II Project: 30052922.00004

Summary

This Data Review Report summarizes the review of Sample Delivery Group (SDG) #92587081 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	Parent		Analysi	S
Sample ID	Lab ID	Matrix	Collection Date	Sample	RAD	MET	GEN CHEM
YGWA-39	92587081001	Water	2/8/2022		Х		
YGWA-40	92587081002	Water	2/8/2022		Х		
YGWA-47	92587081003	Water	2/8/2022		Х		
GWA-2	92587081004	Water	2/8/2022		Х		
UP-DUP-1	92587081005	Water	2/8/2022	GWA-2	Х		
YGWA-1I	92587081006	Water	2/9/2022		Х		
YGWA-1D	92587081007	Water	2/9/2022		Х		
YGWA-2I	92587081008	Water	2/9/2022		Х		
YGWA-3I	92587081009	Water	2/9/2022		Х		
YGWA-3D	92587081010	Water	2/9/2022		Х		
UP-EB-1	92587081011	Water	2/9/2022		X		
UP-FB-1	92587081012	Water	2/9/2022		Х		
YGWA-17S	92587081013	Water	2/9/2022		X		
YGWA-18S	92587081014	Water	2/9/2022		Х		
YGWA-18I	92587081015	Water	2/9/2022		Х		
YGWA-20S	92587081016	Water	2/9/2022		X		
YGWA-21I	92587081017	Water	2/9/2022		X		
YGWA-5I	92587081018	Water	2/10/2022		X		
UP-DUP-3	92587081019	Water	2/10/2022	YGWA-5I	X		

Data Review Report

			Sample Collection	Parent		Analysis	;
Sample ID	Lab ID	Matrix	Date	Sample	RAD	MET	GEN CHEM
YGWA-14S	92587081020	Water	2/10/2022		Х		
UP-DUP-2	92587081021	Water	2/10/2022	YGWA-14S	Х		
YGWA-30I	92587081022	Water	2/11/2022		Х		
YGWA-4I	92587081023	Water	2/11/2022		Х		
YGWA-5D	92587081024	Water	2/10/2022		Х		
UP-EB-2	92587081025	Water	2/10/2022		Х		
UP-FB-2	92587081026	Water	2/10/2022		Х		

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Rep	orted			Not Required
No	Yes	No	Yes	Required
	X		Х	
	Х		Х	
	Х		Х	
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	Х		Х	
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Note:

QA = quality assurance

Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 9315 and 9320. 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.

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 (MCD).

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:

Normalized absolute difference
$$_{MethodBlan \, k} = \frac{ / \, Sample \, - \, Blank \, / }{ \sqrt{ \left(U_{Sample} \, \right)^2 + \left(U_{Blank} \, \right)^2 }}$$

Where:

Usample = 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:

Radium-228, Radium-226, and total Radium were detected in the QA blanks, however, the activities were measured as less than the uncertainty and MDC or between the uncertainty and MDC as described above. Hence, the blank results are considered non-detect and no qualification of the results was required.

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 $< \pm 3$ 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.

 x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

 $u^2(x)$, $u^2(x0)$, $u^2(c)$ = 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.

^{* =} 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

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.

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
	Radium-226	0.151 ± 0.105	0.138 ± 0.115	
GWA-2 / UP-DUP-1	Radium-228	0.311 ± 0.281	0.617 ± 0.346	AC
	Total Radium	0.462 ± 0.386	0.755 ± 0.461	
	Radium-226	0.0387 ± 0.0686	0.183 ± 0.111	
YGWA-5I / UP-DUP-3	Radium-228	0.336 ± 0.397	-0.150 ± 0.507	AC
	Total Radium	0.375 ± 0.466	0.183 ± 0.618	
	Radium-226	-0.0197 ± 0.0632	0.0406 ± 0.0923	
YGWA-14S / UP-DUP-2	Radium-228	-0.199 ± 0.449	-0.195 ± 0.313	AC
	Total Radium	0.000 ± 0.512	0.0406 ± 0.405	

Note:

AC = Acceptable

The differences in the results between the parent sample GWA-2 and field duplicate sample UP-DUP-1 were acceptable. It was noted that the Radium-226, Radium-228, and total Radium results in these samples are considered not detected based on the criteria discussed in Section 7.

The differences in the results between the parent sample YGWA-5I and field duplicate sample UP-DUP-3 were acceptable. It was noted that the Radium-226, Radium-228, and total Radium results in these samples are considered not detected based on the criteria discussed in Section 7.

The differences in the results between the parent sample YGWA-14S and field duplicate sample UP-DUP-2 were acceptable. It was noted that the Radium-226, Radium-228, and total Radium results in these samples are considered not detected based on the criteria discussed in Section 7.

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. <u>If either one of these criteria is true, the sample result is considered "non-detect".</u>

- 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-39, YGWA-1D, and YGWA-4I Radium-228
- GWA-2, UP-DUP-1, YGWA-18S, YGWA-18I, YGWA-20S, YGWA-5I, YGWA-14S, UP-DUP-2, and YGWA-30I
 Radium-226, Radium-228, and total Radium
- YGWA-40, YGWA-47, YGWA-11, YGWA-21, YGWA-17S, and UP-DUP-3 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	Rep	orted		rmance eptable	Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		Х		Х	
Activity, +/- uncertainty, MDC/MDA		Х		Х	
Blanks			ı		
A. Method Blanks		Х		Х	
B. Equipment/Field Blanks		Х		Х	
Carrier (Surrogate) %R		Х		Х	
Tracer (Surrogate) %R		Х		Х	
Laboratory Control Sample (LCS) %R		Х		X	
Laboratory Control Sample Duplicate (LCSD) %R		Х		Х	
LCS/LCSD Precision (RPD)		Х		X	
Matrix Spike (MS) %R	Х				Х
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: April 26, 2022

Sknrije Osinger

PEER REVIEW: Dennis Capria

DATE: April 27, 2022

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Section A	Section B		Section C		
Regulred Client Information:	Required Project Information:		isvoice information:		
Company: GA Power Address: Alianta GA	Report To: SCS Contact:	3	Attention: Southern Co.		Page: Of
Address: Atlanta, GA	Copy To: Arcadis Conta	acts	Company Name:		
Email To:			Address:	i se yee Hille o Carlana da in a	
Phone: Fax	Purchase Order #: Project Name: Plant Yets		Pace Quote:		Regulatory Agency
Requested Due Date:	Project Number: Plant Yate	s Pooled Upgradient	Pace Project Manager: Nicole D'Olec	On the state of th	State / Location
			Pace Profile #: 10840		Georgia
	8.5		534	Requested Analysis Filtered ((A)
1	200E 55 COME 5				
MATTRIX Ottoking VI	mer DW \$ 5	COLLECTED	Preservatives		
Weter Waste Waste	### Of 669 20	TART END			
SAMPLE ID Product Salt Sould	8 %% May 9001) 20 %% May 9001 000 100 100 100 100 100 100 100 10	1 7			
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(A-Z.0-9/ A **	SAMPLE TYPE		# of CONTAINERS Unpreserved H2SO4 H103 HCI NaCH NaCH NaCH NaCH NaCH NaCH NaCH NaCH		į
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E Sample sus must be diagre Touce	EF 4	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	# or co Unpress H2SO4 HN03 HCI NaOH Na2S2C Methanc	SS (255 O) 1 1 1 1 1 1 1 1 1	
NAME OF THE PARTY	3 5 DATE	TIME DATE TIME	Univesent Univesent H2SO4 HCI NaOH NaCH Methanol Other	App III/IV Metats Ci. F. SO4 TDS (2540C) RAD 9315/9320	Residual Chlorine (Y/N)
12 YGWA-47	wi G			xxxx	
2 GWA-2	WI G				<u> </u>
3 UP DUC 1				XXX	pH:
YGWA 4				 	++
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YGWA-58	wr g				+++++++++++++++++++++++++++++++++++++++
8 YGWA-17S	WT G 2/9/2	1070	5 2 3	X X X X	the period of th
9 UGWA-18S	WT G 2/9/2		5 2 3	X X X X	pH: 5.53
10 YGWA-18I	WT G 2/9/2		5 2 3	x x x x x	pH: 5.28
11 YGWA-20S	WT G 2/98		╏╶╏╶╏┈╏┈╏┈╏┈╏ ┈╏		pt: 5,98
12 YGWA-211	WT G 2/9/2		▊ ▘ ▐ ▘▐▘ ▐ ▘▄▋▃▋	x x x x	pH: 5,91
ADDITIONAL COMPENSE	anunda janangeruse salam urunge majara		5 2 3	XXXX	pH: (0-84
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Anions Suite 300.0 (Cl. F. Sulfate)	10 velou	2/0/22	1435 000-14	codis 2/10/21	435
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B; Zn, Ag, Ni, V	9-1	Arcad (52/10/22)	(700)	7.	
74.7 VIL 602.0 D. 201, AG, NE, V		www.jajwa-	wo mil	2/10/1	700
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cd), Cobalt (Co), Lead (Pb).	The state of the s			
Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)					
		SAMPLER NAME AND SIGNATURE			A Control of the Cont
		PRINT Name of SAMPI CD			
		SIGNATURE of SAMPLER:	lessica Ware		EMP in C EMP in C **Strongle on C **Transport **Transp
		SIGNATURE OF SAMPLER:	Jerrica Mi por	DATE Signed: 2 /Q /27	EMP EMP (VN) (VN) (VN) (VN) (VN) (VN) (VN) (VN)

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		Marrie															SPJAN I		Roge	es ied	Analy	in Filte	red (/NY				Minda	Address State	(a)
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4	YGWA-47		WT	G.	ACCESS OF A PROPERTY OF	an. 100 900 peach y \$5000 am				5	2	3		Т	Т	П			χX	1	7	\sqcap	$\neg \vdash$	\Box	\top	十	╗			<u> </u>
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29 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. Section A Section B Section C Required Client Information: Regulred Project Information: invoice information: Company: **GA Power** Report To: SCS Contacts Astrolion: Southern Co. Address: Allanta, GA Copy To: Arcadis Contacts Company Name: Address: Requiremy Age Email To: Purchase Order #: Paios Quote: Phone: Fax Project Name: Plant Yates Pooled Upgradient Pace Project Manager: Nicole D'Oleo State / Location Requested Due Date: Project Number: Pace Profile #: 10840 Georgia Requested Analysis Filtered (Y/N) codes to left) COLLECTED **Preservatives** MATPEX 0006 DW WT WW **Orhidry Water** SAMPLE TEMP AT COLLECTION (see valid on **SAMPLE ID** START END SL CL WP One Character per box. (A-Z, 0-9/, -) CONTAINERS App I / II (gpysum SAMPLE TYPE Sample ids must be unique TDS (2540C) TER DATE TIME DATE TIME YGWA-39 WT G 5 X X G YGWA-40 WT х x 33 YGWA-1I WT G 3 x ጀጀጀጀ 4 YGWA-1D G x X WT G YGWA-21 5 3 X YGWA-3I G х × G YGWA-3D wil 3 X х YGWA-14S G 5 3 X X .50 WT UP-DUP-2 G N} _ 3 YGWA-301 10 G 5 2 3 X _ х X x pHS59 WT G 11 UP-EB-1 __ 5 2 3 x х UP-FB-1 5 2 x ADDITIONAL COMMENTS RELINGUISHED BY / AFFILIATION DATE ACCEPTED BY / AFFELIATION DATE TIME SAMPLE COMBITIONS Anions Suite 300.0 (Cl. F. Suffate) Callian (00) /Arcadis App III Metals: Boron 6020B, Ca 6010D; App M 6020B: Zn, Ag, Ni, V App IV: Metals 60208: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobatt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg) SAMPLER NAME AND SIGNATURE Received on (CA)
(YN)
Custody
Sealed
Cooler
(YN) PRINT Name of SAMPLER TEMP in C SIGNATURE of SAMPLER:

Section	A s	ection B								Sect	Hone .	_																			
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10	YGWA-18I		WΤ	G			-	-		5	2		3	П					κX	×	x						П	pH:		***************************************	
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Beryllu	m (Se), Cadmium (Cd), Chromium (Cr), Coball (Co), Lead (Pb).							II CALL & Barrella	1					********		·		•					-				1-	╂		
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	etals: Boron 60208, Ca 6010D; 020B; Zn, Ag, Ni, V		N	ush	Co	Son	211	1/12	1	64	∫ ,	个	منز	4	7			_لمرار	_	12	111	E2	104	:<					
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SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92587081				N	No quali	fiers assigned	





April 11, 2022

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

RE: Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2022 and February 11, 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

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

Sincerely,

Tyler Forney for Nicole D'Oleo

tegh Jugar

nicole.d'oleo@pacelabs.com

(704)875-9092 Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR Lauren Coker, Georgia Pwer Geoffrey Gay, ARCADIS - Atlanta Kristen Jurinko Kelley Sharpe, ARCADIS - Atlanta Alex Simpson, Arcadis Becky Steever, Arcadis Albert Zumbuhl, Arcadis



(770)734-4200



CERTIFICATIONS

YATES POOLED UPGRADIENT RAD Project:

Pace Project No.: 92587081

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



SAMPLE SUMMARY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92587081001	YGWA-39	Water	02/08/22 14:55	02/09/22 10:18
92587081002	YGWA-40	Water	02/08/22 13:22	02/09/22 10:18
2587081003	YGWA-47	Water	02/08/22 11:40	02/09/22 10:18
2587081004	GWA-2	Water	02/08/22 11:50	02/09/22 10:18
2587081005	UP-DUP-1	Water	02/08/22 00:00	02/09/22 10:18
2587081006	YGWA-1I	Water	02/09/22 13:45	02/10/22 17:00
2587081007	YGWA-1D	Water	02/09/22 14:45	02/10/22 17:00
2587081008	YGWA-2I	Water	02/09/22 17:35	02/10/22 17:00
2587081009	YGWA-3I	Water	02/09/22 11:35	02/10/22 17:00
2587081010	YGWA-3D	Water	02/09/22 10:20	02/10/22 17:00
2587081011	UP-EB-1	Water	02/09/22 13:06	02/10/22 17:00
2587081012	UP-FB-1	Water	02/09/22 10:47	02/10/22 17:00
2587081013	YGWA-17S	Water	02/09/22 10:20	02/10/22 17:00
587081014	YGWA-18S	Water	02/09/22 12:24	02/10/22 17:00
587081015	YGWA-18I	Water	02/09/22 14:31	02/10/22 17:00
587081016	YGWA-20S	Water	02/09/22 16:19	02/10/22 17:00
2587081017	YGWA-21I	Water	02/09/22 17:40	02/10/22 17:00
2587081018	YGWA-5I	Water	02/10/22 17:27	02/11/22 16:45
2587081019	UP-DUP-3	Water	02/10/22 00:00	02/11/22 16:45
2587081020	YGWA-14S	Water	02/10/22 16:20	02/11/22 16:45
2587081021	UP-DUP-2	Water	02/10/22 00:00	02/11/22 16:45
2587081022	YGWA-30I	Water	02/10/22 09:20	02/11/22 16:45
587081023	YGWA-4I	Water	02/11/22 10:40	02/11/22 16:45
587081024	YGWA-5D	Water	02/10/22 17:46	02/11/22 16:45
2587081025	UP-EB-2	Water	02/10/22 11:40	02/11/22 16:45
2587081026	UP-FB-2	Water	02/10/22 17:13	02/11/22 16:45



SAMPLE ANALYTE COUNT

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92587081001	YGWA-39	EPA 9315		1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081002	YGWA-40	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081003	YGWA-47	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081004	GWA-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081005	UP-DUP-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081006	YGWA-1I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081007	YGWA-1D	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081008	YGWA-2I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081009	YGWA-3I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081010	YGWA-3D	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081011	UP-EB-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081012	UP-FB-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081013	YGWA-17S	EPA 9315	JC2	1	PASI-PA



SAMPLE ANALYTE COUNT

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587081014	YGWA-18S	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587081015	YGWA-18I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587081016	YGWA-20S	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587081017	YGWA-21I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587081018	YGWA-5I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587081019	UP-DUP-3	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587081020	YGWA-14S	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587081021	UP-DUP-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587081022	YGWA-30I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587081023	YGWA-4I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587081024	YGWA-5D	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587081025	UP-EB-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA



SAMPLE ANALYTE COUNT

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		Total Radium Calculation	JAL	1	PASI-PA
92587081026	UP-FB-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab Sample ID	Client Sample ID	Danult	11-26-	Depart Limit Analysed O	. I!£!
Method	Parameters —	Result	Units	Report Limit Analyzed Qua	alifiers
92587081001	YGWA-39				
EPA 9315	Radium-226	0.621 ± 0.193 (0.145)	pCi/L	03/14/22 08:22	
EPA 9320	Radium-228	C:97% T:NA 0.213 ± 0.292 (0.626) C:86%	pCi/L	03/04/22 12:08	
Total Radium Calculation	Total Radium	T:87% 0.834 ± 0.485 (0.771)	pCi/L	03/14/22 21:59	
92587081002	YGWA-40	,			
EPA 9315	Radium-226	0.390 ± 0.164 (0.197) C:87% T:NA	pCi/L	03/14/22 08:22	
EPA 9320	Radium-228	0.144 ± 0.283 (0.623) C:84% T:90%	pCi/L	03/04/22 12:08	
Total Radium Calculation	Total Radium	0.534 ± 0.447 (0.820)	pCi/L	03/14/22 21:59	
2587081003	YGWA-47				
EPA 9315	Radium-226	0.241 ± 0.130 (0.183) C:91% T:NA	pCi/L	03/14/22 08:22	
EPA 9320	Radium-228	0.159 ± 0.245 (0.528) C:84% T:90%	pCi/L	03/04/22 12:08	
Total Radium Calculation	Total Radium	0.400 ± 0.375 (0.711)	pCi/L	03/14/22 21:59	
2587081004	GWA-2				
EPA 9315	Radium-226	0.151 ± 0.105 (0.166) C:89% T:NA	pCi/L	03/14/22 08:22	
EPA 9320	Radium-228	0.311 ± 0.281 (0.568) C:87% T:90%	pCi/L	03/04/22 12:08	
Total Radium Calculation	Total Radium	0.462 ± 0.386 (0.734)	pCi/L	03/14/22 21:59	

REPORT OF LABORATORY ANALYSIS



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab Sample ID	Client Sample ID				
Method	Parameters —	Result	Units	Report Limit Analyzed	Qualifiers
92587081005	UP-DUP-1				
EPA 9315	Radium-226	0.138 ± 0.115 (0.208) C:75% T:NA	pCi/L	03/14/22 08:22	
EPA 9320	Radium-228	0.617 ± 0.346 (0.625) C:86% T:88%	pCi/L	03/04/22 12:09	
Total Radium Calculation	Total Radium	0.755 ± 0.461 (0.833)	pCi/L	03/14/22 21:59	
2587081006	YGWA-1I				
EPA 9315	Radium-226	0.211 ± 0.123 (0.190) C:95% T:NA	pCi/L	03/14/22 08:22	
EPA 9320	Radium-228	0.211 ± 0.575 (1.28) C:78% T:88%	pCi/L	03/04/22 12:09	
Total Radium Calculation	Total Radium	0.422 ± 0.698 (1.47)	pCi/L	03/14/22 21:59	
92587081007	YGWA-1D				
EPA 9315	Radium-226	0.294 ± 0.135 (0.159) C:93% T:NA	pCi/L	03/14/22 08:22	
EPA 9320	Radium-228	0.893 ± 0.529 (0.973) C:78% T:89%	pCi/L	03/04/22 12:09	
Total Radium Calculation	Total Radium	1.19 ± 0.664 (1.13)	pCi/L	03/14/22 21:59	
92587081008	YGWA-2I				
EPA 9315	Radium-226	0.205 ± 0.114 (0.150) C:91% T:NA	pCi/L	03/14/22 08:22	
EPA 9320	Radium-228	0.689 ± 0.535 (1.05) C:77% T:90%	pCi/L	03/04/22 12:09	
Total Radium Calculation	Total Radium	0.894 ± 0.649 (1.20)	pCi/L	03/14/22 21:59	

REPORT OF LABORATORY ANALYSIS



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab Sample ID	Client Sample ID				
Method	Parameters	Result	Units	Report Limit Analyzed	Qualifiers
92587081009	YGWA-3I				
EPA 9315	Radium-226	0.817 ± 0.240 (0.170)	pCi/L	03/14/22 08:22	
EPA 9320	Radium-228	C:83% T:NA 1.09 ± 0.451 (0.731) C:81%	pCi/L	03/04/22 12:09	
Total Radium Calculation	Total Radium	T:89% 1.91 ± 0.691 (0.901)	pCi/L	03/14/22 21:59	
92587081010	YGWA-3D				
EPA 9315	Radium-226	1.41 ± 0.334 (0.200) C:96% T:NA	pCi/L	03/14/22 08:18	
EPA 9320	Radium-228	1.87 ± 0.560 (0.704) C:82% T:90%	pCi/L	03/04/22 12:09	
Total Radium Calculation	Total Radium	3.28 ± 0.894 (0.904)	pCi/L	03/14/22 21:59	
92587081011	UP-EB-1				
EPA 9315	Radium-226	0.0487 ± 0.0838 (0.189) C:97% T:NA	pCi/L	03/14/22 08:18	
EPA 9320	Radium-228	0.387 ± 0.291 (0.568) C:83% T:97%	pCi/L	03/04/22 12:09	
Total Radium Calculation	Total Radium	0.436 ± 0.375 (0.757)	pCi/L	03/14/22 21:59	
2587081012	UP-FB-1				
EPA 9315	Radium-226	0.0259 ± 0.0622 (0.149) C:95% T:NA	pCi/L	03/14/22 08:18	
EPA 9320	Radium-228	0.546 ± 0.343 (0.645) C:81% T:93%	pCi/L	03/04/22 12:10	
Total Radium Calculation	Total Radium	0.572 ± 0.405 (0.794)	pCi/L	03/14/22 21:59	

REPORT OF LABORATORY ANALYSIS



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587081013	YGWA-17S					
EPA 9315	Radium-226	0.131 ± 0.0871 (0.122) C:95% T:NA	pCi/L	03/	14/22 08:19	
EPA 9320	Radium-228	0.00169 ± 0.325 (0.756) C:78% T:89%	pCi/L	03/0	04/22 12:10	
Total Radium Calculation	Total Radium	0.133 ± 0.412 (0.878)	pCi/L	03/	14/22 21:59	
92587081014	YGWA-18S					
EPA 9315	Radium-226	0.0618 ± 0.0753 (0.152) C:93% T:NA	pCi/L	03/	14/22 08:19	
EPA 9320	Radium-228	-0.0652 ± 0.340 (0.796) C:81% T:91%	pCi/L	03/4	04/22 12:10	
Total Radium Calculation	Total Radium	0.0618 ± 0.415 (0.948)	pCi/L	03/	14/22 21:59	
92587081015	YGWA-18I					
EPA 9315	Radium-226	0.107 ± 0.0873 (0.149) C:94% T:NA	pCi/L	03/	14/22 08:19	
EPA 9320	Radium-228	0.464 ± 0.334 (0.645) C:76% T:92%	pCi/L	03/4	04/22 12:10	
Total Radium Calculation	Total Radium	0.571 ± 0.421 (0.794)	pCi/L	03/	14/22 21:59	
92587081016	YGWA-20S					
EPA 9315	Radium-226	0.0382 ± 0.0564 (0.120) C:92% T:NA	pCi/L	03/	14/22 08:19	
EPA 9320	Radium-228	0.466 ± 0.326 (0.625) C:78% T:93%	pCi/L	03/4	04/22 12:10	
Total Radium Calculation	Total Radium	0.504 ± 0.382 (0.745)	pCi/L	03/	14/22 21:59	

REPORT OF LABORATORY ANALYSIS



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab Sample ID	Client Sample ID					
Method	Parameters —	Result	Units	Report Limit	Analyzed	Qualifiers
92587081017	YGWA-21I					
EPA 9315	Radium-226	0.790 ± 0.237 (0.195)	pCi/L	03	3/14/22 08:19	
EPA 9320	Radium-228	C:86% T:NA 1.15 ± 0.478	pCi/L	03	3/04/22 12:10	
		(0.782) C:81% T:88%				
Total Radium Calculation	Total Radium	1.94 ± 0.715 (0.977)	pCi/L	03	3/14/22 21:59	
2587081018	YGWA-5I	,				
EPA 9315	Radium-226	0.0387 ± 0.0686 (0.155)	pCi/L	03	3/18/22 09:27	
		C:92% T:NA				
EPA 9320	Radium-228	0.336 ± 0.397 (0.841) C:85%	pCi/L	03	3/04/22 12:18	
Total Radium Calculation	Total Radium	T:89% 0.375 ±	pCi/L	05	3/21/22 15:36	
Total Naulum Calculation	Total Naulum	0.466 (0.996)	POI/L	0.	3/21/22 13.30	
2587081019	UP-DUP-3					
EPA 9315	Radium-226	0.183 ± 0.111 (0.169)	pCi/L	03	3/18/22 09:27	
EPA 9320	Radium-228	C:95% T:NA -0.150 ± 0.507	pCi/L	03	3/04/22 12:18	
		(1.19) C:69% T:82%				
Total Radium Calculation	Total Radium	0.183 ± 0.618 (1.36)	pCi/L	03	3/21/22 15:36	
2587081020	YGWA-14S					
EPA 9315	Radium-226	-0.0197 ± 0.0632 (0.190)	pCi/L	03	3/18/22 09:27	
EPA 9320	Radium-228	C:92% T:NA -0.199 ± 0.449	pCi/L	03	3/04/22 12:18	
		(1.06) C:75% T:89%				
Total Radium Calculation	Total Radium	0.000 ± 0.512 (1.25)	pCi/L	03	3/21/22 15:36	

REPORT OF LABORATORY ANALYSIS



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587081021	UP-DUP-2					
EPA 9315	Radium-226	0.0406 ± 0.0923 (0.219)	pCi/L		03/18/22 09:27	
EPA 9320	Radium-228	C:63% T:NA -0.195 ± 0.313 (0.784) C:91%	pCi/L		03/04/22 18:26	
Total Radium Calculation	Total Radium	T:90% 0.0406 ± 0.405 (1.00)	pCi/L		03/21/22 15:36	
2587081022	YGWA-30I					
EPA 9315	Radium-226	0.0634 ± 0.0744 (0.148) C:89% T:NA	pCi/L		03/18/22 09:27	
EPA 9320	Radium-228	0.205 ± 0.331 (0.718) C:68% T:87%	pCi/L		03/08/22 15:20	
Total Radium Calculation	Total Radium	0.268 ± 0.405 (0.866)	pCi/L		03/21/22 15:36	
92587081023	YGWA-4I					
EPA 9315	Radium-226	0.501 ± 0.174 (0.154) C:90% T:NA	pCi/L		03/18/22 09:27	
EPA 9320	Radium-228	0.495 ± 0.381 (0.744) C:69% T:88%	pCi/L		03/08/22 15:20	
Total Radium Calculation	Total Radium	0.996 ± 0.555 (0.898)	pCi/L		03/21/22 15:36	
2587081024	YGWA-5D					
EPA 9315	Radium-226	2.47 ± 0.487 (0.124)	pCi/L		03/18/22 10:23	
EPA 9320	Radium-228	C:87% T:NÁ 0.856 ± 0.428 (0.737) C:69% T:93%	pCi/L		03/08/22 15:20	
Total Radium Calculation	Total Radium	1.93% 3.33 ± 0.915 (0.861)	pCi/L		03/21/22 15:36	

REPORT OF LABORATORY ANALYSIS



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587081025	UP-EB-2					
EPA 9315	Radium-226	0.0353 ± 0.0661 (0.151) C:97% T:NA	pCi/L		03/22/22 09:52	
EPA 9320	Radium-228	0.133 ± 0.314 (0.699) C:75% T:90%	pCi/L		03/08/22 15:20	
Total Radium Calculation	Total Radium	0.168 ± 0.380 (0.850)	pCi/L		03/22/22 15:27	
92587081026	UP-FB-2					
EPA 9315	Radium-226	0.0543 ± 0.0745 (0.158) C:98% T:NA	pCi/L		03/22/22 09:52	
EPA 9320	Radium-228	0.148 ± 0.542 (1.23) C:72% T:89%	pCi/L		03/08/22 18:43	
Total Radium Calculation	Total Radium	0.202 ± 0.617 (1.39)	pCi/L		03/22/22 15:27	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-39 PWS:	Lab ID: 9258 Site ID:	7081001 Collected: 02/08/22 14:55 Sample Type:	Received:	02/09/22 10:18	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.621 ± 0.193 (0.145) C:97% T:NA	pCi/L	03/14/22 08:22	2 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.213 ± 0.292 (0.626) C:86% T:87%	pCi/L	03/04/22 12:08	3 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.834 ± 0.485 (0.771)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-40 PWS:	Lab ID: 9258 Site ID:	7081002 Collected: 02/08/22 13:22 Sample Type:	Received:	02/09/22 10:18	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.390 ± 0.164 (0.197) C:87% T:NA	pCi/L	03/14/22 08:22	2 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.144 ± 0.283 (0.623) C:84% T:90%	pCi/L	03/04/22 12:08	3 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.534 ± 0.447 (0.820)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-47 PWS:	Lab ID: 9258 Site ID:	7081003 Collected: 02/08/22 11:40 Sample Type:	Received:	02/09/22 10:18	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.241 ± 0.130 (0.183) C:91% T:NA	pCi/L	03/14/22 08:22	2 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.159 ± 0.245 (0.528) C:84% T:90%	pCi/L	03/04/22 12:08	3 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.400 ± 0.375 (0.711)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: GWA-2 PWS:	Lab ID: 9258 Site ID:	7081004 Collected: 02/08/22 11:50 Sample Type:	Received:	02/09/22 10:18	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.151 ± 0.105 (0.166) C:89% T:NA	pCi/L	03/14/22 08:22	2 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.311 ± 0.281 (0.568) C:87% T:90%	pCi/L	03/04/22 12:08	3 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.462 ± 0.386 (0.734)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: UP-DUP-1 PWS:	Lab ID: 9258' Site ID:	7081005 Collected: 02/08/22 00:00 Sample Type:	Received:	02/09/22 10:18	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.138 ± 0.115 (0.208) C:75% T:NA	pCi/L	03/14/22 08:22	2 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.617 ± 0.346 (0.625) C:86% T:88%	pCi/L	03/04/22 12:09	9 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.755 ± 0.461 (0.833)	pCi/L	03/14/22 21:59	9 7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-1I PWS:	Lab ID: 9258' Site ID:	7081006 Collected: 02/09/22 13:45 Sample Type:	Received:	02/10/22 17:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.211 ± 0.123 (0.190) C:95% T:NA	pCi/L	03/14/22 08:22	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.211 ± 0.575 (1.28) C:78% T:88%	pCi/L	03/04/22 12:09	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.422 ± 0.698 (1.47)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-1D PWS:	Lab ID: 9258708 Site ID:	31007 Collected: 02/09/22 14:45 Sample Type:	Received:	02/10/22 17:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	rvices - Greensburg				
Radium-226	EPA 9315	0.294 ± 0.135 (0.159) C:93% T:NA	pCi/L	03/14/22 08:22	2 13982-63-3	
	Pace Analytical Se	rvices - Greensburg				
Radium-228	EPA 9320	0.893 ± 0.529 (0.973) C:78% T:89%	pCi/L	03/04/22 12:09	15262-20-1	
	Pace Analytical Se	rvices - Greensburg				
Total Radium	Total Radium Calculation	1.19 ± 0.664 (1.13)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-2I PWS:	Lab ID: 9258' Site ID:	7081008 Collected: 02/09/22 17:35 Sample Type:	Received:	02/10/22 17:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.205 ± 0.114 (0.150) C:91% T:NA	pCi/L	03/14/22 08:22	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.689 ± 0.535 (1.05) C:77% T:90%	pCi/L	03/04/22 12:09	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.894 ± 0.649 (1.20)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-3I PWS:	Lab ID: 9258' Site ID:	7081009 Collected: 02/09/22 11:35 Sample Type:	Received:	02/10/22 17:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.817 ± 0.240 (0.170) C:83% T:NA	pCi/L	03/14/22 08:22	2 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	1.09 ± 0.451 (0.731) C:81% T:89%	pCi/L	03/04/22 12:09	9 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	1.91 ± 0.691 (0.901)	pCi/L	03/14/22 21:59	9 7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-3D PWS:	Lab ID: 925870 Site ID:	D81010 Collected: 02/09/22 10:20 Sample Type:	Received:	02/10/22 17:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	ervices - Greensburg				,
Radium-226	EPA 9315	1.41 ± 0.334 (0.200) C:96% T:NA	pCi/L	03/14/22 08:18	3 13982-63-3	
	Pace Analytical S	ervices - Greensburg				
Radium-228	EPA 9320	1.87 ± 0.560 (0.704) C:82% T:90%	pCi/L	03/04/22 12:09	15262-20-1	
	Pace Analytical S	ervices - Greensburg				
Total Radium	Total Radium Calculation	3.28 ± 0.894 (0.904)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: UP-EB-1 PWS:	Lab ID: 9258 Site ID:	7081011 Collected: 02/09/22 13:06 Sample Type:	Received:	02/10/22 17:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0487 ± 0.0838 (0.189) C:97% T:NA	pCi/L	03/14/22 08:18	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.387 ± 0.291 (0.568) C:83% T:97%	pCi/L	03/04/22 12:09	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.436 ± 0.375 (0.757)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: UP-FB-1 PWS:	Lab ID: 9258 Site ID:	7081012 Collected: 02/09/22 10:47 Sample Type:	Received:	02/10/22 17:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0259 ± 0.0622 (0.149) C:95% T:NA	pCi/L	03/14/22 08:18	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.546 ± 0.343 (0.645) C:81% T:93%	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.572 ± 0.405 (0.794)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-17S PWS:	Lab ID: 9258 Site ID:	7081013 Collected: 02/09/22 10:20 Sample Type:	Received:	02/10/22 17:00 M	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.131 ± 0.0871 (0.122) C:95% T:NA	pCi/L	03/14/22 08:19	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.00169 ± 0.325 (0.756) C:78% T:89%	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.133 ± 0.412 (0.878)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-18S PWS:	Lab ID: 9258 Site ID:	7081014 Collected: 02/09/22 12:24 Sample Type:	Received:	02/10/22 17:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0618 ± 0.0753 (0.152) C:93% T:NA	pCi/L	03/14/22 08:19	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	-0.0652 ± 0.340 (0.796) C:81% T:91%	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.0618 ± 0.415 (0.948)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-18I PWS:	Lab ID: 9258 Site ID:	7081015 Collected: 02/09/22 14:31 Sample Type:	Received:	02/10/22 17:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.107 ± 0.0873 (0.149) C:94% T:NA	pCi/L	03/14/22 08:19	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.464 ± 0.334 (0.645) C:76% T:92%	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.571 ± 0.421 (0.794)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-20S PWS:	Lab ID: 925870 Site ID:	O81016 Collected: 02/09/22 16:19 Sample Type:	Received:	02/10/22 17:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	ervices - Greensburg				
Radium-226	EPA 9315	0.0382 ± 0.0564 (0.120) C:92% T:NA	pCi/L	03/14/22 08:19	13982-63-3	
	Pace Analytical S	ervices - Greensburg				
Radium-228	EPA 9320	0.466 ± 0.326 (0.625) C:78% T:93%	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical S	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.504 ± 0.382 (0.745)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-21I PWS:	Lab ID: 9258 Site ID:	7081017 Collected: 02/09/22 17:40 Sample Type:	Received:	02/10/22 17:00 M	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.790 ± 0.237 (0.195) C:86% T:NA	pCi/L	03/14/22 08:19	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	1.15 ± 0.478 (0.782) C:81% T:88%	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	1.94 ± 0.715 (0.977)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-5I PWS:	Lab ID: 9258 Site ID:	7081018 Collected: 02/10/22 17:27 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0387 ± 0.0686 (0.155) C:92% T:NA	pCi/L	03/18/22 09:27	7 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.336 ± 0.397 (0.841) C:85% T:89%	pCi/L	03/04/22 12:18	3 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	$0.375 \pm 0.466 (0.996)$	pCi/L	03/21/22 15:36	6 7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: UP-DUP-3 PWS:	Lab ID: 9258708 Site ID:	1019 Collected: 02/10/22 00:00 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.183 ± 0.111 (0.169) C:95% T:NA	pCi/L	03/18/22 09:27	7 13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	-0.150 ± 0.507 (1.19) C:69% T:82%	pCi/L	03/04/22 12:18	3 15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	0.183 ± 0.618 (1.36)	pCi/L	03/21/22 15:36	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-14S PWS:	Lab ID: 9258708 Site ID:	1020 Collected: 02/10/22 16:20 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	-0.0197 ± 0.0632 (0.190) C:92% T:NA	pCi/L	03/18/22 09:27	7 13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	-0.199 ± 0.449 (1.06) C:75% T:89%	pCi/L	03/04/22 12:18	3 15262-20-1	
	Pace Analytical Serv	vices - Greensburg				
Total Radium	Total Radium Calculation	0.000 ± 0.512 (1.25)	pCi/L	03/21/22 15:36	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: UP-DUP-2 PWS:	Lab ID: 9258708 Site ID:	81021 Collected: 02/10/22 00:00 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	rvices - Greensburg				
Radium-226	EPA 9315	0.0406 ± 0.0923 (0.219) C:63% T:NA	pCi/L	03/18/22 09:27	13982-63-3	
	Pace Analytical Se	rvices - Greensburg				
Radium-228	EPA 9320	-0.195 ± 0.313 (0.784) C:91% T:90%	pCi/L	03/04/22 18:26	5 15262-20-1	
	Pace Analytical Se	rvices - Greensburg				
Total Radium	Total Radium Calculation	0.0406 ± 0.405 (1.00)	pCi/L	03/21/22 15:36	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-30I PWS:	Lab ID: 9258 Site ID:	7081022 Collected: 02/10/22 09:20 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0634 ± 0.0744 (0.148) C:89% T:NA	pCi/L	03/18/22 09:27	7 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.205 ± 0.331 (0.718) C:68% T:87%	pCi/L	03/08/22 15:20	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.268 ± 0.405 (0.866)	pCi/L	03/21/22 15:36	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-4I PWS:	Lab ID: 92587 Site ID:	081023 Collected: 02/11/22 10:40 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg		,		
Radium-226	EPA 9315	0.501 ± 0.174 (0.154) C:90% T:NA	pCi/L	03/18/22 09:27	13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.495 ± 0.381 (0.744) C:69% T:88%	pCi/L	03/08/22 15:20	15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.996 ± 0.555 (0.898)	pCi/L	03/21/22 15:36	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-5D PWS:	Lab ID: 9258708 Site ID:	81024 Collected: 02/10/22 17:46 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	rvices - Greensburg				
Radium-226	EPA 9315	2.47 ± 0.487 (0.124) C:87% T:NA	pCi/L	03/18/22 10:23	3 13982-63-3	
	Pace Analytical Se	rvices - Greensburg				
Radium-228	EPA 9320	0.856 ± 0.428 (0.737) C:69% T:93%	pCi/L	03/08/22 15:20	15262-20-1	
	Pace Analytical Se	rvices - Greensburg				
Total Radium	Total Radium Calculation	3.33 ± 0.915 (0.861)	pCi/L	03/21/22 15:36	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: UP-EB-2 PWS:	Lab ID: 92587 Site ID:	7081025 Collected: 02/10/22 11:40 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg				
Radium-226	EPA 9315	0.0353 ± 0.0661 (0.151) C:97% T:NA	pCi/L	03/22/22 09:52	2 13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.133 ± 0.314 (0.699) C:75% T:90%	pCi/L	03/08/22 15:20) 15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.168 ± 0.380 (0.850)	pCi/L	03/22/22 15:27	7 7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: UP-FB-2 PWS:	Lab ID: 9258 Site ID:	7081026 Collected: 02/10/22 17:13 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0543 ± 0.0745 (0.158) C:98% T:NA	pCi/L	03/22/22 09:52	2 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.148 ± 0.542 (1.23) C:72% T:89%	pCi/L	03/08/22 18:43	3 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.202 ± 0.617 (1.39)	pCi/L	03/22/22 15:27	7 7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

QC Batch: 486614 Analysis Method: EPA 9315

QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587081018, 92587081019, 92587081020, 92587081021, 92587081022, 92587081023, 92587081024

METHOD BLANK: 2353261 Matrix: Water

Associated Lab Samples: 92587081018, 92587081019, 92587081020, 92587081021, 92587081022, 92587081023, 92587081024

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-226
 0.0547 ± 0.0680 (0.137) C:95% T:NA
 pCi/L
 03/18/22 09:04

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.



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

QC Batch: 486659 Analysis Method: EPA 9320

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

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587081021

METHOD BLANK: 2353495 Matrix: Water

Associated Lab Samples: 92587081021

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-228
 0.115 ± 0.191 (0.414) C:101% T:93%
 pCi/L
 03/04/22 12:08

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.



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

QC Batch Method:

QC Batch: 486616

Analysis Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587081025, 92587081026

EPA 9315

METHOD BLANK: 2353263 Matrix: Water

Associated Lab Samples: 92587081025, 92587081026

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-226
 0.00708 ± 0.0659 (0.175) C:97% T:NA
 pCi/L
 03/22/22 09:52

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.



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

QC Batch: 485944 Analysis Method: EPA 9315

QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587081001, 92587081002, 92587081003, 92587081004, 92587081005, 92587081006, 92587081007,

92587081008, 92587081009, 92587081010, 92587081011, 92587081012, 92587081013, 92587081014,

92587081015, 92587081016, 92587081017

METHOD BLANK: 2349863 Matrix: Water

Associated Lab Samples: 92587081001, 92587081002, 92587081003, 92587081004, 92587081005, 92587081006, 92587081007,

92587081008, 92587081009, 92587081010, 92587081011, 92587081012, 92587081013, 92587081014,

92587081015, 92587081016, 92587081017

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-226
 0.0634 ± 0.0745 (0.148) C:93% T:NA
 pCi/L
 03/14/22 08:22

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.



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

QC Batch: 486657 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587081001, 92587081002, 92587081003, 92587081004, 92587081005, 92587081006, 92587081007,

92587081008, 92587081009, 92587081010, 92587081011, 92587081012, 92587081013, 92587081014,

92587081015, 92587081016, 92587081017, 92587081018, 92587081019, 92587081020

METHOD BLANK: 2353492 Matrix: Water

Associated Lab Samples: 92587081001, 92587081002, 92587081003, 92587081004, 92587081005, 92587081006, 92587081007,

92587081008, 92587081009, 92587081010, 92587081011, 92587081012, 92587081013, 92587081014,

92587081015, 92587081016, 92587081017, 92587081018, 92587081019, 92587081020

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-228
 0.110 ± 0.223 (0.492) C:84% T:94%
 pCi/L
 03/04/22 12:08

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.



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

QC Batch: 486660 Analysis Method: EPA 9320

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

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587081022, 92587081023, 92587081024, 92587081025, 92587081026

METHOD BLANK: 2353496 Matrix: Water

Associated Lab Samples: 92587081022, 92587081023, 92587081024, 92587081025, 92587081026

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-228
 0.0198 ± 0.286 (0.668) C:70% T:93%
 pCi/L
 03/08/22 15:19

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.



QUALIFIERS

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

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

Date: 04/11/2022 11:59 AM

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Date: 04/11/2022 11:59 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
92587081001	YGWA-39	EPA 9315	485944		
92587081002	YGWA-40	EPA 9315	485944		
2587081003	YGWA-47	EPA 9315	485944		
2587081004	GWA-2	EPA 9315	485944		
2587081005	UP-DUP-1	EPA 9315	485944		
2587081006	YGWA-1I	EPA 9315	485944		
2587081007	YGWA-1D	EPA 9315	485944		
2587081008	YGWA-2I	EPA 9315	485944		
2587081009	YGWA-3I	EPA 9315	485944		
2587081010	YGWA-3D	EPA 9315	485944		
2587081011	UP-EB-1	EPA 9315	485944		
2587081012	UP-FB-1	EPA 9315	485944		
587081013	YGWA-17S	EPA 9315	485944		
587081014	YGWA-17S	EPA 9315	485944		
2587081015	YGWA-18I	EPA 9315	485944		
2587081016	YGWA-101	EPA 9315	485944		
2587081017	YGWA-21I	EPA 9315	485944		
		EFA 9313			
2587081018	YGWA-5I	EPA 9315	486614		
2587081019	UP-DUP-3	EPA 9315	486614		
2587081020	YGWA-14S	EPA 9315	486614		
2587081021	UP-DUP-2	EPA 9315	486614		
2587081022	YGWA-30I	EPA 9315	486614		
587081023	YGWA-4I	EPA 9315	486614		
2587081024	YGWA-5D	EPA 9315	486614		
587081025	UP-EB-2	EPA 9315	486616		
2587081026	UP-FB-2	EPA 9315	486616		
2587081001	YGWA-39	EPA 9320	486657		
2587081002	YGWA-40	EPA 9320	486657		
2587081003	YGWA-47	EPA 9320	486657		
587081004	GWA-2	EPA 9320	486657		
2587081005	UP-DUP-1	EPA 9320	486657		
2587081006	YGWA-1I	EPA 9320	486657		
2587081007	YGWA-1D	EPA 9320	486657		
2587081008	YGWA-2I	EPA 9320	486657		
2587081009	YGWA-3I	EPA 9320	486657		
2587081010	YGWA-3D	EPA 9320	486657		
2587081011	UP-EB-1	EPA 9320	486657		
2587081012	UP-FB-1	EPA 9320	486657		
2587081013	YGWA-17S	EPA 9320	486657		
587081014	YGWA-17S	EPA 9320	486657		
587081014 2587081015	YGWA-18I	EPA 9320 EPA 9320	486657		
	YGWA-20S	EPA 9320			
2587081016			486657		
2587081017	YGWA-21I	EPA 9320	486657		
2587081018	YGWA-5I	EPA 9320	486657		
2587081019	UP-DUP-3	EPA 9320	486657		
2587081020	YGWA-14S	EPA 9320	486657		
2587081021	UP-DUP-2	EPA 9320	486659		



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Date: 04/11/2022 11:59 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587081022	YGWA-30I	EPA 9320	486660		
92587081023	YGWA-4I	EPA 9320	486660		
92587081024	YGWA-5D	EPA 9320	486660		
92587081025	UP-EB-2	EPA 9320	486660		
92587081026	UP-FB-2	EPA 9320	486660		
92587081001	YGWA-39	Total Radium Calculation	490241		
92587081002	YGWA-40	Total Radium Calculation	490241		
92587081003	YGWA-47	Total Radium Calculation	490241		
92587081004	GWA-2	Total Radium Calculation	490241		
92587081005	UP-DUP-1	Total Radium Calculation	490241		
92587081006	YGWA-1I	Total Radium Calculation	490241		
92587081007	YGWA-1D	Total Radium Calculation	490241		
92587081008	YGWA-2I	Total Radium Calculation	490241		
92587081009	YGWA-3I	Total Radium Calculation	490241		
92587081010	YGWA-3D	Total Radium Calculation	490241		
92587081011	UP-EB-1	Total Radium Calculation	490241		
92587081012	UP-FB-1	Total Radium Calculation	490241		
92587081013	YGWA-17S	Total Radium Calculation	490241		
92587081014	YGWA-18S	Total Radium Calculation	490241		
92587081015	YGWA-18I	Total Radium Calculation	490241		
92587081016	YGWA-20S	Total Radium Calculation	490241		
92587081017	YGWA-21I	Total Radium Calculation	490241		
92587081018	YGWA-5I	Total Radium Calculation	491834		
92587081019	UP-DUP-3	Total Radium Calculation	491834		
92587081020	YGWA-14S	Total Radium Calculation	491834		
92587081021	UP-DUP-2	Total Radium Calculation	491834		
92587081022	YGWA-30I	Total Radium Calculation	491834		
92587081023	YGWA-4I	Total Radium Calculation	491834		
92587081024	YGWA-5D	Total Radium Calculation	491834		
92587081025	UP-EB-2	Total Radium Calculation	492151		
92587081026	UP-FB-2	Total Radium Calculation	492151		

Pace Analytical*	Sample Cond			t (SCUR	
Tace Analytical		Documer	it No.: 3-Rev.08		Issuing Authority: Pace Carolinas Quality Office
	r-C	AR-C3-03	3-KEY.UO		Face Calonias Quanty Strice
Asheville Eden Greenwood Sample Condition Client Name:	Hunters	ville [-	gh[]	Mechanicsville Atlanta Kernersville Kernersville
ourier: Fed Ex UP	s ☐USPS			lient	
stody Seal Present? Yes No Se	eals intact?	Yes	□no	,	Date/Initials Person Examining Contents: 2/4/2/
cking Material: Bubble Wrap ermometer: Hr Gun ID: Correction Fa	Bubble Bags Type of keep control of the control of		ブ	Other Blue	Biological Tissue Frozent Yes No No
oler Temp: Add/Subtrac oler Temp Corrected (*C): OA Regulated Soil (N/A, water sample)	2.5	<u> </u>	_		Temp should be above freezing to 6°C [Samples out of temp criteria. Samples on ice, cooling proce has begun
samples originate in a quarantine zone within the l	United States: CA	, NY, or S	C (check m	aps)?	Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)? Yes No Comments/Discrepancy:
				1,	
Chain of Custody Present?	□ (es	<u> </u>	□N/A	1.	
Samples Arrived within Hold Time?	Yes	□No ÆÑo	N/A □N/A	3.	
Short Hold Time Analysis (<72 hr.)? Rush Turn Around Time Requested?		ZÍNO	□N/A	4.	
Sufficient Volume?		□No	□n/a	5.	• '
Correct Containers Used?	,⊟76s	□No	□N/A	6.	
-Pace Containers Used?	[dres	□No	□n/a		
Containers Intact?	Q×es	□No	□N/A	7.	
Dissolved analysis: Samples Field Filtered? Sample Labels Match COC?	☐Yes	□No □No	□N/A	8 . 9.	
-Includes Date/Time/ID/Analysis Matrix:	W				
Headspace in VOA Vials (>5-6mm)?	Yes	□No	[4N/A	10.	
Trip Blank Present?	☐Yes	□No	ØN/A	11.	
Trip Blank Custody Seals Present?	☐Yes	□No	ZN/A		
OMMENTS/SAMPLE DISCREPANCY					Field Data Required? Yes No
ENT NOTIFICATION/RESOLUTION				Lot	ID of split containers:
ENTRUMINATION					
ercon contacted:		**************************************	Date/T	e.	- Mose in soul in the second of the second o

Project Manager SCURF Review:

Project Manager SRF Review:

Date:

Date:

Document Name:

Document Revised: November 15, 2021

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But Color				Melals 60208: Antimony (Sb), Arsenic (As), Bahiv m (Be), Cadmium (Cd), Chromium (Cr), Cobalt (C, (Li), Mctybdenum (Mo), Selenium (Se) Marcury (Hg)	Addals: Boron 6020B, Ca 6010O; 6020B; Zn, Ag, Ni, V	Suite 300,0 (Cl. F. Sulfate)	ADDITIONAL COMMENTS.	OP-FB-T		-	UR-DUP-2	Yewa 443	YGWA-30	YGWA-3I	YGWA-2I			TOWA-II	YGWA-40	YGWA-39	-			ed Due Dats:		8	ı	[d Client information:	•
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	App N: Melals 6020B: Artimory (Sb), Arsenic (As), Barium (Ba), Beryffum (Be), Cadmium (Cd), Citromium (Cd), Coball (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selentium (Se) 7040A: Mentrury (Ho)	Asp VI 60208: Zn. Ag. Ni, V	Anions Suite 300.0 (CL. F. Suifeta)		A TANK TO THE TANK TH	X314-205 -	XCHA-181 XV	PS-189-2WER	XCMV-156- Vm	THE BEAMEN	WP-004-3	YCWA-51	X THAT	WP-BOB-1- PA-C	GWA-X	YGWA-47	Character per box. (A-Z, 9-91,-) le ids must be untique	SAMPLEID			Requested Due Date:	A TOTAL OF THE PROPERTY OF THE		Atlanta, GA		I₽
	1(Bz),), Lead (Pb),							THE COLD STREET		TE. 27.27.27.27.20.00 Halland A. T. T. T. T. T. T. T. T. T. T. T. T. T.				And Andreas and An			다 다 가 되었다. 다 다 가 되었다.			Froject Muniper.	Project Name:	Purchase Order #:		Copy To:	Report To	Section B Required Project Information:
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	App IV: Berysur Dithium	App #1	Arrons :		12	11	-16	8	8	7	6	5 -	4	3	2	- X	ITEM#		2	7	Email To	630	Company	equirec
	App N: Metals 6020B: Antimony (Sb.), Arsenic (As), Berium (Ba), Berytum (Be), Cedmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Ll), Molyoderum (Mo), Selenium (Se) 7040A: Mercury (Hg)	App III Metals: Boron 8020B, Ce 6010D; App III 8020B; Zh, Ag, Ni, V	Arrions Suite 300.0 (C), F. Sulfate)	ADDITIONAL COMMENTS	1200.24	XCM1.205	YCHIA 181	SSTAMPI	X-744-4-15-	**************************************		1011.5	*GWA-II	UP-DUP-1	GWA-2	16717-11	SAMPLE ID One Churacter per box. (AZ, 0-9 /, -) Sample lds must be unique					Anania, SA	GA Power	Required Client information:
	um (Ba) 20), Lead (Pb)				Avenue a construction of the construction of t	The state of the s											Dendang Weise UYF Witasia Water WWW Weater WWW Photoset Spirock Spiroc	1	Je s výske stabilode.	Project Name:	Purchase Order #:	Copy To:	Report To: SCS Contacts	Required
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Pace Analytical	Sample Condition Upon Re	celpt (SCUR)	Page 1 of 2	
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:	F-CAR-CS-033-Rev	.08	Pace Carolinas Quality Office	
Laboratory receiving samples: Asheville Eden Greenwood Sample Condition Client Name: Upon Receipt	Huntersville R		Atlanta Ker	nersville[
C-H	- lower			2/23/22
Courier: Fed Ex UF Commercial Pace	PS USPS [Other:	<i>C</i> (CDED)	PM: NMG Due Date: 0. CLIENT: GA-GA Power	2/23/22
Custody Seal Present? Yes Ano S	eals Intact?	No	Date/Initials Person Examining Contents:	1/0/22
Packing Material: Bubble Wrap	Bubble Bags None] Other	Biological Tissue Frozen?	the
Thermometer: Gin ID: Correction Fa	Type of Ice:	BiueN	☐Yes ☐No ☐N/A	
Cooler Temp: Add/Subtrac		Ċ	should be above freezing to 6°C Samples out of temperiteria. Samples on ice, a s begun	cooling process
JSDA Regulated Soil (N/A, water sample) Did samples originate in a quarantine zone within the Yes No	United States: CA, NY, or SC (chec		mples originate from a foreign source (internating Hawaii and Puerto Rico)? Comments/Discrepancy:	
Aluka Adama Angara Angara		_	commency observation.	
Chain of Custody Present?	Tes ONO ON/	A 1.		
Samples Arrived within Hold Time?	☑Yes □No □N/			
Short Hold Time Analysis (<72 hr.)?	Yes TNO DN/	A 3.	•	
Rush Turn Around Time Requested?	☐Yes 【No ☐N/	A 4.		
Sufficient Volume?	EYes No No	A 5.		
Correct Containers Used?	LEYes ONO ON/	a 6.		
-Pace Containers Used?	Øres □No □N/	<u> </u>		
Containers Intact?	□Yes □No □N/	7.		
Dissolved analysis: Samples Field Filtered?	Yes No 4N//	8.		
Sample Labels Match COC?	TYES NO NO	9.		
-Includes Date/Time/ID/Analysis Matrix:	W			
Headspace in VOA Vials (>5-6mm)?	□Yes □No □N//			
Trip Blank Present?	Yes No No	11.		İ
Trip Blank Custody Seals Present? COMMENTS/SAMPLE DISCREPANCY	□Yes □No ☑N/A		Field Data Required?	Yes No
		tot ID of s	plit containers:	
LIENT NOTIFICATION/RESOLUTION				
Person contacted:	Date	:/Time:	considerate de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de	nn na na na na na na na na na na na na n
Project Manager SCURF Review:	**************************************	- Annual Control of the Control of t	Date:	A CONTRACTOR OF THE PROPERTY O
Project Manager SRF Review:			Date:	

Document Name:

Document Revised: November 15, 2021

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	App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Bartum (Ba), Beryffum (Be), Cadmium (Cd), Chomium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mencury (Hg)	App III Metals: Boron 60208, Cs 6010D; App I/I 6020B: Zn, Ag, Ni, V	Anions Suite 300.0 (Cl. F. Suifate)	ADDITIONAL COMMISTIS.	母 君————————————————————————————————————	UP EB.4	ACMY-30L	Th-901-2	XGWA-TAS	YGWA-3D	YGWA 3I	YGWA-21	YGWA-1D	YGWA-1	T-CWA-40		SE THEN	SAMPLE ID SAMPLE ID SARSold One Character per box. (A-Z, 0-91, -) Santple ids must be unique These	**ATRIX	ACAD COMPANIES OF THE CONTROL OF THE	Projection of the control of the con	Tax			Atlanta, GA	GA Power	Hent information:	
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	App Nr. Melais 80208: Antimony (Sb.), Arsenic (As), Barium (Bs), Benykum (Be), Cedmum (Cd), Chomium (Cr), Cobalt (Co), Lead (Pb), Uthium (L), Molyodenum (No), Selenium (Se) 7040A: Mercury (Hg)	App III Metals: Boron 6020B, Ca 6010D; App III 6020B; Zn, Ag, Ni, V	Anions Suite 300.0 (Cl. F. Sulfate)	ADDITIONAL COMMENTS	SP H	UP-EB-1	KCWA-901	H-8M-2	でまする	TOWNS		VIII.	TSWART -	KGWA-1B	YGWA-11			XCWA:99	Christy Week SAMPLE ID SAMPLE ID Wheth Week When Week When Week Col Character per box. (A.2, 4-5 () Sample its must be unique Those Those	XXPAX	A STATE OF THE PROPERTY OF THE		Fax		Atlanta, GA	GA Power	Client information:
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	App Nr. Metals 6020B: Artimony (Sb), Assenic (As), Barlum (Ba), Beryslum (Be), Cadmium (Cd), Choomium (Cd, Cobalt (Co), Lead (Pb), Lifflum (Li), Molyddenum (Mo), Selenium (Se) 7040A: Mercuny (Hg)	Ago III Melais: Boron 6020B. Ca 6010D; Ago IVI 6020B: Zn, Ag, Ni, V	Anions Suite 300.0 (Cl. F. Suitate)		YGWA-211	YGWA-20S	YGWA-18I	UGWA-18S	YGWA-17S	**************************************	TE-DHP-3	*SWASI				CWA 2	Y6WA-47	SAMPLE ID Character per box. (A.2.0-91) Sample les muses be unique Those Those Those Those	матках Оныма	Andrews The Cost.	KON Park		Н	Allanta, GA	Ι¥
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Pace Analytical*

Document Name: Sample Condition Upon Receipt (SCUR)

Document No.: F-CAR-CS-033-Rev.08 Document Revised: November 15, 2021

Page 1 of 2 Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples: Asheville	Hunters	/ille 🔲	Raleig	gh∐	Mechanicsville Atlanta Kernersville
Sample Condition Client Name: Upon Receipt	W	**************	copper y now 43 data his xxxxxxx	Projec	t#: LO#: 92587091 Due Date: 02/23/22
Courier: Fed Ex UPS Pace	USPS Other		□ Kii	ent	CLIENT: GA-GA Power
Custody Seal Present? Yes No Seals In	itact?	∐Yes	ØNº		Date/Initials Person Examining Contents: 122
Packing Material: Bubble Wrap Bubb Thermometer: IR Gun ID:	Type of to	e:	e ZÍO Wet □E	ther slue	Biological Tissue Frozen? ☐ Yes ☐ No ☐ None
Cooler Temp: Cooler Temp Corrected (°C): Cooler Temp Corrected (°C):			<u> </u>		Temp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling process has begun
JSDA Regulated Soil (\(\sum \text{N/A} \), water sample\(\) Did samples originate in a quarantine zone within the United \(\sum \text{Yes} \sum \sum \text{No} \)	l States: CA,	NY, or SC	C (check ma	(*aqı	Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No Comments/Discrepancy:
THE RESERVE OF THE PROPERTY OF		□No	□n/a	1,	MICHAEL CO. CO. SEC. CO. CO. SEC. CO. CO. SEC. CO. CO. CO. CO. CO. CO. CO. CO. CO. C
Chain of Custody Present?			□N/A	2.	- Management and plants associated that a style of the st
Samples Arrived within Hold Time?	yes Yes	[]No	□N/A	3.	A STATE OF THE PROPERTY OF THE
Short Hold Time Analysis (<72 hr.)? Rush Turn Around Time Requested?	□Yes	ZIÑo	□n/a	4.	and the second s
Control of the state of the sta	Z Yes		∐n/a	5.	noncola de la colonia de la co
Sufficient Volume? Correct Containers Used? -Pace Containers Used?	ØYes ØYes	□No □No	□n/a □n/a	6.	THE STATE OF THE S
Containers Intact?	Yes	□No	□n/A	7.	
Dissolved analysis: Samples Field Filtered?	∐Yes	[]No	[]K/A	8.	
Sample Labels Match COC?	Yes	No	□n/a	9.	
-Includes Date/Time/ID/Analysis Matrix:	1	Samuel newscartes and a	and the second s		And the second of the second o
Headspace in VOA Vials (>5-6mm)?	Yes	No	ŊŊ/A	10.	
Trip Blank Present?	Yes	□No	QN/A	11.	
Trip Blank Custody Seals Present? COMMENTS/SAMPLE DISCREPANCY		□No	□n/a		Field Data Required? Yes: No
THE PROPERTY OF THE PROPERTY O	ex positions pro \$ 40000 Me A all all all all and the second of the seco			Lot	ED of split containers:
CLIENT NOTIFICATION/RESOLUTION					
Person contacted:			Date/Ti	me: _	
Project Manager SCURF Review:					Date:
Project Manager SRF Review:					Date:

	App IV: Beryllium Uthium 7040A:	App III N	Ankons S		12	#	3	9	8	7	6	5		3	2		ITEM#			request	Phone:	Email To:		Address:	Require	Section A
	App Nº. Metats 6020B: Antimon'y (Sb.), Arsenic (As), Banium (Ba), Benylium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Leed (Pb), Uthium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	App III Metals: Bonor 6020B, Ca 6010D; App VII 6020B: Zh, Ag, Ni, V	Ankms Suite 300.0 (Cl. F. Suifate)	ADDITIONAL COMMENTS	YGWA-241	YOWA 20S	YGWA-181	UGWA-183	YGWA 176	YCWA-5D	UP-DUP-3	YGWA-5I	*GWA-41	Op-DUP-1	GWA-2	YGWA-47	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample into must be unique			Requested Due Date:	Fax		Analita, GX		¥	•
	fium (Ba), (Co), Lead (Pb),																Whate Web VIII Whate Web Will Probat 9 Bolifold St. Off Web Web Web Other 15 Those			Project Number:	Project Name:	Pumbac	Copy 13	Report 1	Required	
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Section		Watals 60208: Antimony (Sb.), Arsenic (As), r (Be), Cadmium (Cd), Chromium (Cr), Cob Ll), Molybdenum (Mo), Selenium (Se) Mercury (Hg)	App III Metals: Boron 6020B, Ca 6010D; App III 6020B; Zn, Ag, Ni, V	Anions Suite 300.0 (CL F. Suifate)	ADDITIONAL COMMENTS	W-FB-1	UP-EB-1	YGWA-30I	UP-DUP-2	YGWA-14S	YGWA-3D	YGWA-3I	YGWA-2I	YGWA-1D	YGWA-1I	YGWA-40	YGWA-39	One Character per box. (A-2, 0-9 f.,) Sample (de must be unique	SAMPLEID		NATIONAL AND AND AND AND AND AND AND AND AND AND	Requested Due Date:	Fax		TIGHTE, CA	Allocia CA	Cilent Information:
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	App Nt. Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllum (Be), Cadmium (Cd), Chromium (Cr), Cobell (Co), Lead (Pb), Lithium (L), Molybdenum (Mo), Solenium (Se) (7040A: Mercury (Hg);	App III Metals: Boron 6020B, Ca 6010D; App VII 6020B; Zn, Ag, NI, V	Anions Suite 300.0 (Cl. F. Suitate)	ADDITIONAL COMMENTS	YGWA-211	YGWA-20S	YGWA-18I	UGWA-18S	YGWA-17S	YGWA-5D	UP-DUP-3	YGWA-5I	YGWA-4I	UP-DUP-1	GWA-2	YGWA-47	SAMPLE ID One Character per box. (A-Z. 8-9 / -) Sample ids must be unique		Requested Due Date:	Fax		Alana, GA	1	ĬĚ	•
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Requested Due Date: ddress 9 App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryflium (Be), Cadminen (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (U), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Mg) App III Metals: Boron 6020B, Ca 60100; App III 6020B; Zn, Ag, Ni, V Anions Suite 300.0 (Ct, F, Suffate) رما u **c**n ITEM# 12 œ UP-EB-2 UP-FB-2 GA Power Atlanta, GA Sample kis must be unique One Character per box. (A-Z, 0-91, -) SAMPLE ADDITIONAL COMMENTS Fax MATTEIX Dening Water Water Water Water Water Water Product Coll Coll Whye Au Other Ticase Copy Ta: Required Project Information: Project Name: Purchase Order #: Report To: Arcadis Contacts DIAMAI RELINGUISHED BY / AFFILIATION SCS Contacts Š W MATRIX CODE (see valid codes to left) Plant Yates Pooled Upgradient Ø SAMPLE TYPE (G=GRAB C=COMP) G (DATEC) IACODES START SAMPLER HAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER: SHIII Z COLLECTED The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. CHAIN-OF-CUSTODY / Analytical Request Document DATE ŧ 1 ı ı į ŧ ı 8 PETITION **Z** ŧ Ĭ 1 ı DATE ... SAMPLE TEMP AT COLLECTION Attention: Southern Co. Company Name: Pace Quote: Address: Pace Project Manager: # OF CONTAINERS C.T. cn 2 2 Unpreserved H2SO4 (a) HNO3 Preservatives HCI NaOH ACCEPTED BY I AFFILLATION Na2S2O3 Nicole D'Oleo Methanoi Other Y/N Analyses Test App III/IV Metals **DATE Signed:** × × CI, F, SO4 × × TDS (2540C) RAD 9315/9320 × × App I/II (gpysum only) 2 DATE Regulatory Agenc Page: Starte / Location TEMP In Residual Chlorine (Y/N) É 모모 Received on Ice (Y/N) Custody ATE CONDITIONS Q C Sealed Cooler (Y/N) Samples Intact (Y/N)

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	App Nt Metals 60208: Antimony (Sb.), Arsenic (As.), Barium (Ba), Berylium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb.), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	App III Metals: Boron 80208, Ca 60100; App III 80208; Zr. Ag. Ni, V	Anions Suite 300.0 (Ct. F. Sulfate)	ADOTRONAL COMMENTS					The state of the s	THE REAL PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE P				•	UP-FB-2	OP-EB-2	One Character per box. (A-2, 0-5 i, -) Sample kis must be unique	SAMPLE ID			vednesed in the name.	Fax	***************************************	Atlanta, GA	Соправу: GA Power	Client information:	
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Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

MS/MSD 1

MS/MSD 2

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<	MB					+					907
MB Status vs Numerical Indicator MB Status vs. MDC:	MB Numerical Performance Indicator:	MB MDC:	M/B Counting Uncertainty:	MB concentration:	MB Sample ID		Matrix:	Worklist	Date:	Analyst:	Test:
. N/A Pass	1.68	0.148	: 0.074	: 0.063	2349863		DW	: 65255	: 2/27/2022	JC2	: Ra-226
		_									

Method Blank Assessment

Laboratory Control Sample Assessment	LCSD (Y or N)? LCS65255	Y LCSD65255
Count Date: Spike I.D.:	3/14/2022 19-033	3/14/2022 19-033
Decay Corrected Spike Concentration (pCi/mL):	24.029	24.029
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.508	0.500
Target Conc. (pCi/L, g, F):	4.727	4.804
Uncertainty (Calculated):	0.057	0.058
Result (pCi/L, g, F):	4.451	5.230
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.439	0.486
Numerical Performance Indicator:	-1.22	1.71
Percent Recovery:	94.16%	108.86%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment

MS/MSD Upper % Recovery Limits:	125%	
MS Status vs Recovery:	NA A	
MSD Status vs Numerical Indicator:	108.86%	•
MS Status vs Numerical Indicator:	1.71	
MSD Percent Recovery:	0.486	
MS Percent Recovery:	5.230	
MSD Numerical Performance Indicator:	0.058	
MS Numerical Performance Indicator:	4.804	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.500	
Sample Matrix Spike Duplicate Result:	0.10	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	24.029	_
Sample Matrix Spike Result:	19-033	_
Sample Result Counting Uncertainty (pCi/L, g, F):	3/14/2022	13
Sample Result:	LCSD65255	55
MSD Spike Uncertainty (calculated):	Υ	ν)?
MS Spike Uncertainty (calculated):		
MSD Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MS Aliquot (L, g, F):		
Spike Volume Used in MSD (mL):		
Spike Volume Used in MS (mL):		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		ω
Spike I.D.:		
Sample MSD I.D.		
Sample MS I.D.		
Sample I.D.		
Sample Collection Date:		22
Sample Matrix Spike Control Assessment		
	1	o

-		Matrix			
MSD Status vs Recovery Limits: MS/MSD Lower % Decreary Limits:	MSD Percent Recovery, MS Status vs Numerical Indicator; MSD Status vs Numerical Indicator; MSD Status vs Numerical Indicator; MS Status vs Recovery.	Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Perrent Recovery:	Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result:	MSD Spike Uncertainty (calculated): Sample Result Sample Result Counting Uncertainty (pCi/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):

		Matrix Spike/Matrix Spike Duplicate Sample Assessment
LCS65255	92587081001	Sample I.D.
LCSD65255	92587081001DUP	Sample MS I.D.
4.451	0.621	Sample MSD l.D.
0.439	0.171	Sample Matrix Spike Result:
5.230	0.589	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
0.486	0.174	Sample Matrix Spike Duplicate Result:
N O	See Below ##	Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
-2.332	0.257	Duplicate Numerical Performance Indicator:
14.47%	5.30%	(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:
N/A	NA	MS/ MSD Duplicate Status vs Numerical Indicator:
Pass	Pass	MS/ MSD Duplicate Status vs RPD:
25%	25%	% RPD Limit:

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

(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:
Duplicate Status vs Numerical indicator;
Duplicate Status vs RPD:
% RPD Limit:

Duplicate Numerical Performance Indicator:

Duplicate Sample I.D.
Sample Result (pCilL, g, F);
Sample Result Counting Uncertainty (pCilL, g, F);
Sample Duplicate Result (pCilL, g, F);
Sample Duplicate Result (pCilL, g, F);
Sample Duplicate Result Counting Uncertainty (pCilL, g, F);
Are sample and/or duplicate results below RL?

Comments:



122/11/2 mar

Comments:

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

Jan 3/14/22

1 of 1

TAR_65254_W.xls
Total Alpha Radium (ENV-FRM-GBUR-0142 R0).xls

Duplicate Status vs RPD: % RPD Limit:

(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):
Are sample and/or duplicate results below RL?

Duplicate Numerical Performance Indicator: Duplicate Status vs Numerical Indicator:

0.497 4.767 0.465 NO 1.824 12.87% NI/A Pass 25%

See Below ##

Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/ MSD Duplicate RPD:

MS/ MSD Duplicate Status vs Numerical Indicator:

MS/ MSD Duplicate Status vs RPD: % RPD Limit:

Sample Matrix Spike Result
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result

Sample I.D.
Sample MS I.D.
Sample MSD I.D.

1.0940元

42.81% N/A Fail*** 25%

Duplicate Sample I.D.

Sample Result (pCi/L, g, F):
Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Duplicate Result (pCi/L, g, F):

LCS65254 LCSD65254 5.401

92587078001 92587078001DUP 0.273 0.136 0.177 0.106

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Face Analytical"

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test Ra-226

Worklist: Matrix: MB Sample ID MB Concentration: MB Counting Uncertainty: MB MDC:	65254 DW 2349823 0.023 0.071 0.175	
MB Sample ID	2349823	
M/B Counting Uncertainty:	0.071	
MB MDC:	0.175	
MB Numerical Performance Indicator:	0.65	
MB Status vs Numerical Indicator:	NA	
MD Other to MDO	Dass	

Lower % Recovery Limits:	Upper % Recovery Limits:	Status vs Recovery:	Status vs Numerical Indicator:	Percent Recovery:	Numerical Performance Indicator:	LCS/LCSD Counting Uncertainty (pCi/L, g, F):	Result (pCi/L, g, F):	Uncertainty (Calculated):	Target Conc. (pCi/L, g, F):	Aliquot Volume (L, g, F):	Volume Used (mL):	Decay Corrected Spike Concentration (pCi/mL):	Spike I.D.:	Count Date:	
75%	125%	Pass	N/A	113.63%	2.54	0.497	5.401	0.057	4.753	0.506	0.10	24.029	19-033	3/11/2022	
75%	125%	Pass	N/A	99.89%	-0.02	0.465	4.767	0.057	4.772	0.503	0.10	24.029	19-033	3/11/2022	

Duplicate Sample Assessment

2349823 0.023 0.023 0.023 0.065 0.071 0.071 0.075 0.085	Analyst: Date: Worklist: Worklist: Matrix: Matrix: MB Sample ID MB concentration: MB Counting Uncertainty: MB MDC: cal Performance Indicator: tus vs Numerical Indicator:
	JC2 JC2 2/27/2022 65254 DW 2349823 0.023 0.071 0.175 0.65

Method Blank Assessment

MS/MSD Decay Corrected Spike Concentr Spike Volume Uss Spike Volume Usec MS A	
Sa	
Sample Matrix Spike Control Assessment Sample C	

Sample MS I.D. Sample MSD I.D. Spike I.D.: Spike I.D.: y Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): Spike Volume Used in MSD (mL):
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	nike Volume I lead in MS (ml.)
	Spike Concentration (pCi/mL):
	Spike I.D.:
1.	Sample MSD I.D.

,	Sample MSD I.D.	Sample MS I.D.	Sample I.D.
		100	

Sample MSD I.D.	Sample MS I.D.	Sample I.D.	

Collection Date:

MS/MSD 1

MS/MSD 2

Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): Matrix Spike Result Counting Uncertainty (pCi/L, g, F): MSD Numerical Performance Indicator: Sample Matrix Spike Duplicate Result: MS Numerical Performance Indicator:

MSD Percent Recovery: MS Percent Recovery:

MSD I ower % Recovery I imi	MSD Upper % Recovery Limi	MSD Status vs Recove	MS Status vs Recover) Status vs Numerical Indicat	Claring so required can indicate
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Matrix Spike/Matrix Spike Duplicate Sample Assessment	MS/MSD Lower % Recovery Lin	MS/MSD Upper % Recovery Lim	MSD Status vs Recovi	Sold of Colors

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overy Lin	overy Lin	's Recov	's Recov	a more

SD Lower % Recovery Lin	SD Upper % Recovery Lin	MSD Status vs Recov	MS Status vs Recovi	Status vs Numerical Indica	
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D Lower % Recovery Lim	D Upper % Recovery Lim	MSD Status vs Recove	MS Status vs Recove	tatus vs Numerical Indicat
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SD Lower % Recovery Lir	SD Upper % Recovery Lir	MSD Status vs Recov	MS Status vs Recov	Status vs Numerical indic
iry Lir	ÿ	èco\	èco)	Halc

Sample Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Result:

Laboratory Control Sample Assessment

August and September 2022



Georgia Power Co. - Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92623533 and 92623534

Analyses Performed By:

Pace Analytical Services – Asheville, North Carolina Pace Analytical Services – Peachtree Corners, Georgia Pace Analytical Services – Greensburg, Pennsylvania

Report #47079R Review Level: Tier II Project: 30113037.3A

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92623533 and 92623534 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	Parent	Analysis		
Sample ID	Lab ID	Matrix	Collection Date	Sample	RAD	MET	GEN CHEM
YGWC-26S	92623533001 92623534001	Water	8/31/2022		Х	Х	Х
YGWC-26I	92623533002 92623534002	Water	8/31/2022		Х	Х	Х
AP-2 EB-1	92623533003 92623534003	Water	8/31/2022		Х	Х	Х
AP-2 FB-1	92623533004 92623534004	Water	8/31/2022		Х	Х	Х
YGWC-27S	92623533005 92623534005	Water	9/1/2022		Х	Х	Х
YGWC-27I	92623533006 92623534006	Water	9/1/2022		Х	Х	Х
YGWC-28S	92623533007 92623534007	Water	9/1/2022		Х	Х	Х
YGWC-28I	92623533008 92623534008	Water	9/1/2022		Х	Х	Х
AP-2-DUP-1	92623533009 92623534009	Water	9/1/2022	YGWC-28I	Х	Х	Х
YGWC-29I	92623533010 92623534010	Water	9/1/2022		Х	Х	Х
AP-2-EB-2	92623533011 92623534011	Water	9/1/2022		Х	Х	Х
AP-2-FB-2	92623533012 92623534012	Water	9/1/2022		Х	Х	Х

Data Review Report

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

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.

Boron was detected in the associated equipment blank AP-2 EB-1; however, the associated sample results were greater than the BAL. No qualification of the sample results was required.

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 YGWC-26S in association with SW-846 6020B analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YGWC-28I in association with SW-846 7470A analysis exhibited recoveries within the control limits.

MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 6010D analysis.

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
	Calcium	26.3	26.3	0.0%
	Barium	0.068	0.065	4.5%
YGWC-28I / AP-2-DUP-1	Boron	1.8	1.7	5.7%
10W0-2017 At -2-201 -1	Cadmium	0.00017 J	0.00011 J	
	Lithium	0.0066 J	0.0063 J	AC
	Molybdenum	0.0010 J	0.0011 J	

Note:

AC = Acceptable

The differences in the results between the parent sample YGWC-28I and field duplicate sample AP-2-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	Rep	orted		rmance eptable	Not Required	
	No	Yes	No	Yes		
Inductively Coupled Plasma-Atomic Emission Spectrom Inductively Coupled Plasma-Mass Spectrometry (ICP-Management Atomic Absorption – Manual Cold Vapor (CV)		AES)				
Tier II Validation						
Holding Times		Х		Х		
Reporting limits (units)		Х		Х		
Blanks	ı	1	I	ı	1	
A. Method Blanks		Х		Х		
B. Equipment/Field Blanks		Х	Х			
Laboratory Control Sample (LCS) %R		Х		Х		
Matrix Spike (MS) %R		X		Х		
Matrix Spike Duplicate (MSD) %R		Х		Х		
MS/MSD Precision (RPD)		Х		Х		
Laboratory Duplicate (RPD)	Х				X	
Field Duplicate (RPD)		X		Х		

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.

MS/MSD analysis was not performed using a sample from this SDG in association with anions analysis.

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 YGWC-26S and YGWC-29I in association with TDS analysis exhibited an RPD or difference in the results within the control limit.

Laboratory duplicate or MS/MSD analysis was not performed using a sample from this SDG in association with anions analysis.

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
	TDS	186	170	9.0%
YGWC-28I / AP-2-DUP-1	Chloride	10.4	10.3	1.0%
10W0-2017 At -2-201 -1	Fluoride	0.11	0.11	AC
	Sulfate	7.6	7.5	1.3%

Note:

AC = Acceptable

The differences in the results between the parent sample YGWC-28I and field duplicate sample AP-2-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	Rep	orted		rmance eptable	Not Require		
300.0	No	Yes	No	Yes			
Miscellaneous Instrumentation							
Tier II Validation							
Holding Times		Х		Х			
Reporting limits (units)		Х		Х			
Blanks	ı	1	ı	I			
A. Method Blanks		Х		Х			
B. Equipment/Field Blanks		Х		Х			
Laboratory Control Sample (LCS) %R		Х		Х			
Matrix Spike (MS) %R	Х				Х		
Matrix Spike Duplicate (MSD) %R	Х				Х		
MS/MSD Precision (RPD)	Х				Х		
Laboratory Duplicate (RPD)		Х		Х			
Field Duplicate (RPD)		Х		Х			

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:

Normalized absolute difference
$$_{MethodBlan\,k} = \frac{\ /\ Sample\ -\ Blank\ /\ }{\sqrt{\left(U_{Sample}\ \right)^2 + \left(U_{Blank}\ \right)^2}}$$

Where:

Usample = 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:

Radium-228, Radium-226, and total Radium were detected in the QA blanks, however, the activities were measured as less than the uncertainty and MDC or between the uncertainty and MDC as described above. Hence, the blank results are considered non-detect and no qualification of the results was required.

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 $< \pm 3$ sigma for either.

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

$$Z_{\text{MS}} = \frac{\mathbf{x} - \mathbf{x}_0 - \mathbf{c}}{\sqrt{\mathbf{u}^2(\mathbf{x}) + \mathbf{u}^2(\mathbf{x}_0) + \mathbf{u}^2(\mathbf{c})}}$$

Where:

x = measured concentration of the spiked sample.

 x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

 $u^2(x)$, $u^2(x0)$, $u^2(c)$ = 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.

^{* =} 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

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 YGWC-26S in association with SW-846 9320 analysis exhibited acceptable difference between the results.

The laboratory duplicate analysis performed on sample location YGWC-26I 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
	Radium-226	0.310 ± 0.148	0.141 ± 0.121	
YGWC-28I / AP-2-DUP-1	Radium-228	0.292 ± 0.492	0.269 ± 0.503	AC
	Total Radium	0.602 ± 0.640	0.410 ± 0.624	

Note:

AC = Acceptable

The differences in the results between the parent sample YGWC-28I and field duplicate sample AP-2-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. <u>If either one of these criteria is true, the sample result is considered "non-detect".</u>

- 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:

- YGWC-27I Radium-228
- YGWC-26I, YGWC-28I, YGWC-29I Radium-228 and total Radium
- YGWC-26S, AP-2 EB-1, AP-2 FB-1, YGWC-27S, YGWC-28S, AP-2-DUP-1, AP-2-EB-2, AP-2-FB-2 –
 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	Rep	orted		rmance eptable	Not Require	
	No	Yes	No	Yes		
Miscellaneous Instrumentation						
Tier II Validation						
Holding Times		Х		Х		
Activity, +/- uncertainty, MDC/MDA		Х		Х		
Blanks			1	1		
A. Method Blanks		Х		Х		
B. Equipment/Field Blanks		Х		Х		
Carrier (Surrogate) %R		Х		Х		
Tracer (Surrogate) %R		Х		Х		
Laboratory Control Sample (LCS) %R		Х		Х		
Laboratory Control Sample Duplicate (LCSD) %R		Х		Х		
LCS/LCSD Precision (RPD)		Х		Х		
Matrix Spike (MS) %R	Х				X	
Matrix Spike Duplicate (MSD) %R	Х				Х	
MS/MSD Precision (RPD)	Х				Х	
Laboratory Duplicate (RPD)		Х		Х		
Field Duplicate (RPD)		X		Х		

Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE:

DATE: November 8, 2022

Sknrifu Oslinger

PEER REVIEW: Dennis Capria

DATE: November 9, 2022

Chain of	Custody	/ Data Qu	ıalifier Su	ımmary T	able

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

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September 27, 2022

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

RE: Project: Plant Yates AP-2

Pace Project No.: 92623533

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between September 01, 2022 and September 02, 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,

Micole D'oleo

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





CERTIFICATIONS

Project: Plant Yates AP-2

Pace Project No.: 92623533

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006 South Carolina Certification #: 99006001

9800 Kincey Ave. Ste 100, Huntersville, NC 28078 South Carolina Drinking Water Cert. #: 99006003

North Carolina Drinking Water Certification #: 37706 Florida/NELAP Certification #: E87627 North Carolina Field Services Certification #: 5342 Kentucky UST Certification #: 84 North Carolina Wastewater Certification #: 12 Lausiana DoH Drinking Water #: LA029

South Carolina Laboratory ID: 99006

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804 South Carolina Laboratory ID: 99030 Florida/NELAP Certification #: E87648 South Carolina Certification #: 99030001

North Carolina Drinking Water Certification #: 37712 Virginia/VELAP Certification #: 460222

North Carolina Wastewater Certification #: 40

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092 North Carolina Certification #: 381

Florida DOH Certification #: E87315 Georgia DW Inorganics Certification #: 812 South Carolina Certification #: 381
South Carolina Certification #: 98011001

Virginia/VELAP Certification #: 460221



SAMPLE SUMMARY

Project: Plant Yates AP-2

Pace Project No.: 92623533

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92623533001	YGWC-26S	Water	08/31/22 17:15	09/01/22 09:05
92623533002	YGWC-26I	Water	08/31/22 17:40	09/01/22 09:05
92623533003	AP-2 EB-1	Water	08/31/22 15:35	09/01/22 09:05
92623533004	AP-2 FB-1	Water	08/31/22 16:45	09/01/22 09:05
92623533005	YGWC-27S	Water	09/01/22 10:30	09/02/22 09:15
92623533006	YGWC-27I	Water	09/01/22 09:25	09/02/22 09:15
92623533007	YGWC-28S	Water	09/01/22 17:55	09/02/22 09:15
92623533008	YGWC-28I	Water	09/01/22 11:40	09/02/22 09:15
92623533009	AP-2-DUP-1	Water	09/01/22 00:00	09/02/22 09:15
92623533010	YGWC-29I	Water	09/01/22 14:40	09/02/22 09:15
92623533011	AP-2-EB-2	Water	09/01/22 18:00	09/02/22 09:15
92623533012	AP-2-FB-2	Water	09/01/22 14:50	09/02/22 09:15



SAMPLE ANALYTE COUNT

Project: Plant Yates AP-2

Pace Project No.: 92623533

92623533001 YGWC-26S	Lab ID	Sample ID	Method	Analysts	Analytes Reported	
PAPA 1470A VB 1 1 1 1 1 1 1 1 1	92623533001	YGWC-26S	EPA 6010D	<u> </u>	1	
SM 2540C-2015 BTS 1			EPA 6020B	CW1	13	
P2623533002			EPA 7470A	VB	1	
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PATH PATH	92623533002	YGWC-26I	EPA 6010D	KH	1	
SM 2540C-2015 BTS 1			EPA 6020B	CW1	13	
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92623533004 AP-2 FB-1 EPA 500.0 Rev 2.1 1993 CDC 3 92623533004 AP-2 FB-1 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 P623533005 YGWC-27S EPA 6010D DRB 1 EPA 6020B CW1 13 1 EPA 470A VB 1 1 EPA 500D DRB 1 1 EPA 300.0 Rev 2.1 1993 CDC 3 P2623533006 YGWC-27I EPA 6010D DRB 1 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 300.0 Rev 2.1 1993 CDC 3 P2623533007 YGWC-28S EPA 6010D DRB 1 EPA 6020B CW1 13 1 EPA 6020B CW1 13 1 EPA 6020B CW1 <td< td=""><td></td><td></td><td>EPA 7470A</td><td>VB</td><td>1</td></td<>			EPA 7470A	VB	1	
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PEPA 7470A VB 1	92623533004	AP-2 FB-1	EPA 6010D	KH	1	
SM 2540C-2015 BTS 1			EPA 6020B	CW1	13	
EPA 300.0 Rev 2.1 1993 CDC 3 92623533005 YGWC-27S EPA 6010D DRB 1 EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 BTS 1 EPA 300.0 Rev 2.1 1993 CDC 3 P2623533006 YGWC-27I EPA 6010D DRB 1 EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 BTS 1 EPA 300.0 Rev 2.1 1993 CDC 3 P2623533007 YGWC-28S EPA 6010D DRB 1 EPA 7470A VB 1 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 <td></td> <td></td> <td>EPA 7470A</td> <td>VB</td> <td>1</td>			EPA 7470A	VB	1	
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EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 BTS 1 EPA 300.0 Rev 2.1 1993 CDC 3 92623533006 YGWC-27I EPA 6010D DRB 1 EPA 7470A VB 1 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 7470A VB 1 SM 2540C-2015 BTS 1 EPA 300.0 Rev 2.1 1993 CDC 3 92623533007 YGWC-28S EPA 6010D DRB 1 EPA 6020B CW1 13 EPA 300.0 Rev 2.1 1993 CDC 3 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A CDC 3 92623533008 YGWC-28I EPA 6010D DRB 1			EPA 300.0 Rev 2.1 1993	CDC	3	
PA 7470A	92623533005	YGWC-27S	EPA 6010D	DRB	1	
SM 2540C-2015 BTS 1 EPA 300.0 Rev 2.1 1993 CDC 3 92623533006 YGWC-27I EPA 6010D DRB 1 EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 BTS 1 EPA 300.0 Rev 2.1 1993 CDC 3 92623533007 YGWC-28S EPA 6010D DRB 1 EPA 6020B CW1 13 EPA 6020B CDC 3 EPA 6010D DRB 1 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 BTS 1 EPA 7470A VB 1 SM 2540C-2015 BTS 1 EPA 7470A CDC 3 92623533008 YGWC-28I EPA 6010D DRB 1			EPA 6020B	CW1	13	
P2623533006 YGWC-27I EPA 300.0 Rev 2.1 1993 CDC 3 P2623533006 YGWC-27I EPA 6010D DRB 1 EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 BTS 1 EPA 300.0 Rev 2.1 1993 CDC 3 EPA 6020B CW1 3 EPA 6020B CW1 13 EPA 300.0 Rev 2.1 1993 CDC 3 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A CDC 3 SM 2540C-2015 BTS 1 EPA 300.0 Rev 2.1 1993 CDC 3			EPA 7470A	VB	1	
92623533006 YGWC-27I			SM 2540C-2015	BTS	1	
EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 BTS 1 EPA 300.0 Rev 2.1 1993 CDC 3 92623533007 YGWC-28S EPA 6010D DRB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 BTS 1 EPA 7470A VB 1 SM 2540C-2015 BTS 1 EPA 300.0 Rev 2.1 1993 CDC 3 92623533008 YGWC-28I EPA 6010D DRB 1			EPA 300.0 Rev 2.1 1993	CDC	3	
EPA 7470A VB 1 SM 2540C-2015 BTS 1 EPA 300.0 Rev 2.1 1993 CDC 3 92623533007 YGWC-28S EPA 6010D DRB 1 EPA 7470A VB 1 EPA 7470A VB 1 SM 2540C-2015 BTS 1 EPA 7470A CDC 3 92623533008 YGWC-28I EPA 6010D DRB 10 EPA 6010D DRB 1	92623533006	YGWC-27I	EPA 6010D	DRB	1	
SM 2540C-2015 BTS 1 EPA 300.0 Rev 2.1 1993 CDC 3 92623533007 YGWC-28S EPA 6010D DRB 1 EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 BTS 1 EPA 300.0 Rev 2.1 1993 CDC 3 92623533008 YGWC-28I EPA 6010D DRB 1			EPA 6020B	CW1	13	
P2623533007 YGWC-28S EPA 6010D DRB 1 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 300.0 Rev 2.1 1993 CDC 3 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 7470A VB 1 EPA 300.0 Rev 2.1 1993 CDC 3 P2623533008 YGWC-28I EPA 6010D DRB 1			EPA 7470A	VB	1	
92623533007 YGWC-28S EPA 6010D DRB 1 EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 BTS 1 EPA 300.0 Rev 2.1 1993 CDC 3 92623533008 YGWC-28I EPA 6010D DRB 1			SM 2540C-2015	BTS	1	
EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 BTS 1 EPA 300.0 Rev 2.1 1993 CDC 3 92623533008 YGWC-28I EPA 6010D DRB 1			EPA 300.0 Rev 2.1 1993	CDC	3	
EPA 7470A VB 1 SM 2540C-2015 BTS 1 EPA 300.0 Rev 2.1 1993 CDC 3 92623533008 YGWC-28I EPA 6010D DRB 1	92623533007	YGWC-28S	EPA 6010D	DRB	1	
SM 2540C-2015 BTS 1 EPA 300.0 Rev 2.1 1993 CDC 3 92623533008 YGWC-28I EPA 6010D DRB 1			EPA 6020B	CW1	13	
EPA 300.0 Rev 2.1 1993 CDC 3 92623533008 YGWC-28I EPA 6010D DRB 1			EPA 7470A	VB	1	
92623533008 YGWC-28I EPA 6010D DRB 1			SM 2540C-2015	BTS	1	
			EPA 300.0 Rev 2.1 1993	CDC	3	
EPA 6020B CW1 13	92623533008	YGWC-28I	EPA 6010D	DRB	1	
			EPA 6020B	CW1	13	

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates AP-2

Pace Project No.: 92623533

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623533009	AP-2-DUP-1	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623533010	YGWC-29I	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623533011	AP-2-EB-2	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623533012	AP-2-FB-2	EPA 6010D	DRB	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



SUMMARY OF DETECTION

Project: Plant Yates AP-2
Pace Project No.: 92623533

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623533001	YGWC-26S					
	Performed by	Customer			09/23/22 09:55	
	рН	5.61	Std. Units		09/23/22 09:55	
EPA 6010D	Calcium	10.8	mg/L	1.0	09/15/22 22:02	
EPA 6020B	Barium	0.024	mg/L	0.0050	09/20/22 18:17	
EPA 6020B	Beryllium	0.000074J	mg/L	0.00050	09/20/22 18:17	
EPA 6020B	Boron	0.70	mg/L	0.040	09/20/22 18:17	
EPA 6020B	Cobalt	0.0026J	mg/L	0.0050	09/20/22 18:17	
SM 2540C-2015	Total Dissolved Solids	206	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	15.0	mg/L	1.0	09/08/22 23:36	
EPA 300.0 Rev 2.1 1993	Fluoride	0.076J	mg/L	0.10	09/08/22 23:36	
EPA 300.0 Rev 2.1 1993	Sulfate	90.2	mg/L	1.0	09/08/22 23:36	
2623533002	YGWC-26I		· ·			
	Performed by	Customer			09/23/22 09:55	
	pH	5.77	Std. Units		09/23/22 09:55	
EPA 6010D	Calcium	16.4	mg/L	1.0		
EPA 6020B	Antimony	0.0010J	mg/L	0.0030	09/20/22 18:40	
EPA 6020B	Barium	0.057	mg/L	0.0050	09/20/22 18:40	
EPA 6020B	Boron	0.64	mg/L	0.040	09/20/22 18:40	
EPA 6020B	Lithium	0.0074J	mg/L	0.030	09/20/22 18:40	
EPA 6020B	Selenium	0.00743 0.0036J	mg/L	0.0050	09/20/22 18:40	
SM 2540C-2015			•			
	Total Dissolved Solids	228	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	16.6	mg/L	1.0	09/08/22 23:50	
EPA 300.0 Rev 2.1 1993 EPA 300.0 Rev 2.1 1993	Fluoride Sulfate	0.082J 85.9	mg/L mg/L	0.10 1.0	09/08/22 23:50 09/08/22 23:50	
2623533003	AP-2 EB-1	65.9	mg/L	1.0	09/06/22 23.30	
EPA 6020B	Boron	0.012J	mg/L	0.040	09/20/22 18:46	
2623533005	YGWC-27S	0.0120	mg/L	0.040	03/20/22 10.40	
202333003	Performed by	Customer			09/23/22 09:55	
	•	6.13	Std. Units		09/23/22 09:55	
PA 6010D	pH Calcium	21.3		1.0	09/23/22 09:55	
PA 6020B	Barium	0.049	mg/L mg/L		09/10/22 15:45	
			mg/L	0.0050		
PA 6020B	Boron	1.0	mg/L	0.040	09/20/22 20:28	
PA 6020B	Cobalt	0.0015J	mg/L	0.0050	09/20/22 20:28	
EPA 7470A	Mercury	0.00019J	mg/L	0.00020	09/21/22 12:44	
SM 2540C-2015	Total Dissolved Solids	124	mg/L		09/06/22 14:53	
EPA 300.0 Rev 2.1 1993	Chloride	10.4	mg/L		09/08/22 20:52	
PA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L		09/08/22 20:52	
EPA 300.0 Rev 2.1 1993	Sulfate	13.5	mg/L	1.0	09/08/22 20:52	
2623533006	YGWC-27I					
	Performed by	Customer			09/23/22 09:55	
	рН	6.13	Std. Units		09/23/22 09:55	
PA 6010D	Calcium	28.2	mg/L	1.0	09/16/22 15:50	
PA 6020B	Barium	0.076	mg/L	0.0050	09/20/22 20:34	
PA 6020B	Beryllium	0.00012J	mg/L	0.00050	09/20/22 20:34	
	•		-			

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates AP-2
Pace Project No.: 92623533

Lab Sample ID Method	Client Sample ID Parameters	Result	l loito	Report Limit	Analyzad	Qualifier
wethod	— —		Units	- Kepon Limit	Analyzed .	Qualifier
2623533006	YGWC-27I					
EPA 6020B	Cobalt	0.0096	mg/L	0.0050	09/20/22 20:34	
EPA 6020B	Lithium	0.0069J	mg/L	0.030	09/20/22 20:34	
EPA 6020B	Molybdenum	0.0016J	mg/L	0.010	09/20/22 20:34	
SM 2540C-2015	Total Dissolved Solids	193	mg/L	25.0	09/05/22 13:13	
EPA 300.0 Rev 2.1 1993	Chloride	13.4	mg/L	1.0	09/08/22 21:07	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	09/08/22 21:07	
EPA 300.0 Rev 2.1 1993	Sulfate	2.5	mg/L	1.0	09/08/22 21:07	
2623533007	YGWC-28S					
	Performed by	Customer			09/23/22 09:56	
	рН	6.59	Std. Units		09/23/22 09:56	
EPA 6010D	Calcium	33.1	mg/L	1.0	09/16/22 15:54	
EPA 6020B	Barium	0.20	mg/L	0.0050	09/20/22 20:40	
EPA 6020B	Boron	2.2	mg/L	0.040	09/20/22 20:40	
EPA 6020B	Cobalt	0.00071J	mg/L	0.0050	09/20/22 20:40	
SM 2540C-2015	Total Dissolved Solids	225	mg/L	25.0	09/05/22 13:13	
EPA 300.0 Rev 2.1 1993	Chloride	16.5	mg/L	1.0	09/08/22 21:22	
EPA 300.0 Rev 2.1 1993	Fluoride	0.16	mg/L	0.10	09/08/22 21:22	
EPA 300.0 Rev 2.1 1993	Sulfate	13.4	mg/L	1.0	09/08/22 21:22	
2623533008	YGWC-28I					
	Performed by	Customer			09/23/22 09:56	
	рН	6.41	Std. Units		09/23/22 09:56	
PA 6010D	Calcium	26.3	mg/L	1.0	09/16/22 15:59	
EPA 6020B	Barium	0.068	mg/L	0.0050	09/20/22 20:46	
EPA 6020B	Boron	1.8	mg/L	0.040	09/20/22 20:46	
EPA 6020B	Cadmium	0.00017J	mg/L	0.00050	09/20/22 20:46	
EPA 6020B	Lithium	0.0066J	mg/L	0.030	09/20/22 20:46	
EPA 6020B	Molybdenum	0.0010J	mg/L	0.010	09/20/22 20:46	
SM 2540C-2015	Total Dissolved Solids	186	mg/L	25.0	09/06/22 14:53	
PA 300.0 Rev 2.1 1993	Chloride	10.4	mg/L	1.0	09/09/22 09:02	
PA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	09/09/22 09:02	
EPA 300.0 Rev 2.1 1993	Sulfate	7.6	mg/L	1.0	09/09/22 09:02	
2623533009	AP-2-DUP-1					
PA 6010D	Calcium	26.3	mg/L		09/16/22 16:04	
EPA 6020B	Barium	0.065	mg/L	0.0050	09/20/22 20:52	
EPA 6020B	Boron	1.7	mg/L	0.040	09/20/22 20:52	
EPA 6020B	Cadmium	0.00011J	mg/L	0.00050	09/20/22 20:52	
EPA 6020B	Lithium	0.0063J	mg/L	0.030	09/20/22 20:52	
PA 6020B	Molybdenum	0.0011J	mg/L	0.010	09/20/22 20:52	
SM 2540C-2015	Total Dissolved Solids	170	mg/L	25.0	09/06/22 14:53	
PA 300.0 Rev 2.1 1993	Chloride	10.3	mg/L	1.0	09/09/22 09:17	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	09/09/22 09:17	
EPA 300.0 Rev 2.1 1993	Sulfate	7.5	mg/L	1.0	09/09/22 09:17	
2623533010	YGWC-29I					
	Performed by	Customer			09/23/22 09:56	
	рH	6.05	Std. Units		09/23/22 09:56	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates AP-2

Pace Project No.: 92623533

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623533010	YGWC-29I					
EPA 6010D	Calcium	11.0	mg/L	1.0	09/16/22 16:09	
EPA 6020B	Barium	0.057	mg/L	0.0050	09/20/22 21:27	
EPA 6020B	Boron	0.71	mg/L	0.040	09/20/22 21:27	
EPA 6020B	Cadmium	0.00020J	mg/L	0.00050	09/20/22 21:27	
EPA 6020B	Lithium	0.0051J	mg/L	0.030	09/20/22 21:27	
SM 2540C-2015	Total Dissolved Solids	128	mg/L	25.0	09/06/22 14:53	
EPA 300.0 Rev 2.1 1993	Chloride	8.1	mg/L	1.0	09/09/22 09:32	
EPA 300.0 Rev 2.1 1993	Fluoride	0.091J	mg/L	0.10	09/09/22 09:32	
EPA 300.0 Rev 2.1 1993	Sulfate	21.2	mg/L	1.0	09/09/22 09:32	



ANALYTICAL RESULTS

Project: Plant Yates AP-2
Pace Project No.: 92623533

Sample: YGWC-26S	Lab ID:	92623533001	Collecte	ed: 08/31/2	2 17:15	Received: 09/	/01/22 09:05 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte)					
Performed by	Customer				1		09/23/22 09:55		
рН	5.61	Std. Units			1		09/23/22 09:55		
6010D ATL ICP	Analytical	Method: EPA 6	6010D Pre	paration Me	thod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	ЭΑ				
Calcium	10.8	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 22:02	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Pre	paration Met	thod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	ЭΑ				
Antimony	ND	mg/L	0.0030	0.00078	1	09/19/22 18:08	09/20/22 18:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/19/22 18:08	09/20/22 18:17	7440-38-2	
Barium	0.024	mg/L	0.0050	0.00067	1	09/19/22 18:08	09/20/22 18:17	7440-39-3	
Beryllium	0.000074J	mg/L	0.00050	0.000054	1	09/19/22 18:08	09/20/22 18:17	7440-41-7	
Boron	0.70	mg/L	0.040	0.0086	1	09/19/22 18:08			
Cadmium	ND	mg/L	0.00050	0.00011	1	09/19/22 18:08	09/20/22 18:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/22 18:08	09/20/22 18:17	7440-47-3	
Cobalt	0.0026J	mg/L	0.0050	0.00039	1	09/19/22 18:08	09/20/22 18:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/19/22 18:08	09/20/22 18:17	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/19/22 18:08	09/20/22 18:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/19/22 18:08	09/20/22 18:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/22 18:08	09/20/22 18:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/22 18:08	09/20/22 18:17	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	7470A Pre	paration Met	hod: EF	PA 7470A			
•	Pace Ana	lytical Services	- Peachtre	e Corners, 0	ЭΑ				
Mercury	ND	mg/L	0.00020	0.00013	1	09/20/22 16:00	09/21/22 12:28	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	•	lytical Services			GΑ				
Total Dissolved Solids	206	mg/L	25.0	10.0	1		09/05/22 13:01		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	15.0	mg/L	1.0	0.60	1		09/08/22 23:36	16887-00-6	
Fluoride	0.076J	mg/L	0.10	0.050	1		09/08/22 23:36		
Sulfate	90.2	mg/L	1.0	0.50	1		09/08/22 23:36		



ANALYTICAL RESULTS

Project: Plant Yates AP-2 Pace Project No.: 92623533

Sample: YGWC-26I	Lab ID:	92623533002	Collecte	d: 08/31/22	2 17:40	Received: 09/	/01/22 09:05 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	Customer				1		09/23/22 09:55		
рН	5.77	Std. Units			1		09/23/22 09:55		
6010D ATL ICP	Analytical	Method: EPA 6	010D Prep	aration Met	thod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtree	e Corners, C	ЭΑ				
Calcium	16.4	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 22:07	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Prep	aration Met	thod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtree	e Corners, C	ЭΑ				
Antimony	0.0010J	mg/L	0.0030	0.00078	1	09/19/22 18:08	09/20/22 18:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/19/22 18:08	09/20/22 18:40	7440-38-2	
Barium	0.057	mg/L	0.0050	0.00067	1	09/19/22 18:08	09/20/22 18:40	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/19/22 18:08	09/20/22 18:40	7440-41-7	
Boron	0.64	mg/L	0.040	0.0086	1	09/19/22 18:08	09/20/22 18:40		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/19/22 18:08	09/20/22 18:40	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/22 18:08	09/20/22 18:40	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/19/22 18:08	09/20/22 18:40	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/19/22 18:08	09/20/22 18:40	7439-92-1	
Lithium	0.0074J	mg/L	0.030	0.00073	1	09/19/22 18:08	09/20/22 18:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/19/22 18:08	09/20/22 18:40	7439-98-7	
Selenium	0.0036J	mg/L	0.0050	0.0014	1	09/19/22 18:08	09/20/22 18:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/22 18:08	09/20/22 18:40	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Prep	aration Met	hod: EF	PA 7470A			
· ·	Pace Ana	lytical Services	- Peachtree	e Corners, C	ЭΑ				
Mercury	ND	mg/L	0.00020	0.00013	1	09/26/22 10:00	09/26/22 14:32	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015						
	Pace Ana	lytical Services	- Peachtree	e Corners, C	GΑ				
Total Dissolved Solids	228	mg/L	25.0	10.0	1		09/05/22 13:01		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	16.6	mg/L	1.0	0.60	1		09/08/22 23:50	16887-00-6	
Fluoride	0.082J	mg/L	0.10	0.050	1		09/08/22 23:50		
Sulfate	85.9	mg/L	1.0	0.50	1		09/08/22 23:50		



ANALYTICAL RESULTS

Project: Plant Yates AP-2 Pace Project No.: 92623533

Sample: AP-2 EB-1	Lab ID:	92623533003	Collecte	ed: 08/31/2	2 15:35	Received: 09/	01/22 09:05 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	Analytical I	Method: EPA 6	010D Pre	paration Me	thod: El	PA 3010A			
	Pace Analy	tical Services	- Peachtre	e Corners, 0	GΑ				
Calcium	ND	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 22:12	7440-70-2	
6020 MET ICPMS	Analytical I	Method: EPA 6	020B Pre	paration Met	thod: Ef	PA 3005A			
	Pace Analy	tical Services	- Peachtre	e Corners, 0	GΑ				
Antimony	ND	mg/L	0.0030	0.00078	1	09/19/22 18:08	09/20/22 18:46	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/19/22 18:08	09/20/22 18:46	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/19/22 18:08	09/20/22 18:46	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/19/22 18:08	09/20/22 18:46	7440-41-7	
Boron	0.012J	mg/L	0.040	0.0086	1	09/19/22 18:08	09/20/22 18:46	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/19/22 18:08	09/20/22 18:46	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/22 18:08	09/20/22 18:46	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/19/22 18:08	09/20/22 18:46	7440-48-4	
_ead	ND	mg/L	0.0010	0.00089	1	09/19/22 18:08	09/20/22 18:46	7439-92-1	
ithium	ND	mg/L	0.030	0.00073	1	09/19/22 18:08	09/20/22 18:46	7439-93-2	
Nolybdenum	ND	mg/L	0.010	0.00074	1	09/19/22 18:08	09/20/22 18:46	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/22 18:08	09/20/22 18:46	7782-49-2	
- Thallium	ND	mg/L	0.0010	0.00018	1	09/19/22 18:08	09/20/22 18:46	7440-28-0	
7470 Mercury	Analytical I	Method: EPA 7	7470A Pre	paration Met	thod: EF	PA 7470A			
	Pace Analy	tical Services	- Peachtre	e Corners, 0	GΑ				
Mercury	ND	mg/L	0.00020	0.00013	1	09/26/22 10:00	09/26/22 14:35	7439-97-6	
2540C Total Dissolved Solids	Analytical I	Method: SM 2	540C-2015	;					
	Pace Analy	tical Services	- Peachtre	e Corners, 0	GΑ				
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/05/22 13:09		
300.0 IC Anions 28 Days	-	Method: EPA 3 ytical Services							
Chloride	ND	mg/L	1.0	0.60	1		09/09/22 00:04	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/09/22 00:04	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/09/22 00:04		



ANALYTICAL RESULTS

Project: Plant Yates AP-2 Pace Project No.: 92623533

Sample: AP-2 FB-1	Lab ID:	92623533004	Collecte	ed: 08/31/22	2 16:45	Received: 09/	01/22 09:05 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	Analytical I	Method: EPA 6	010D Pre	paration Met	hod: EF	PA 3010A			
	Pace Analy	tical Services	- Peachtre	e Corners, C	SA.				
Calcium	ND	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 22:26	7440-70-2	
6020 MET ICPMS	Analytical I	Method: EPA 6	020B Prep	paration Met	hod: EF	A 3005A			
	Pace Analy	tical Services	- Peachtre	e Corners, C	€A				
Antimony	ND	mg/L	0.0030	0.00078	1	09/19/22 18:08	09/20/22 18:52	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/19/22 18:08	09/20/22 18:52	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/19/22 18:08	09/20/22 18:52	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/19/22 18:08	09/20/22 18:52	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/19/22 18:08	09/20/22 18:52	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/19/22 18:08	09/20/22 18:52	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/22 18:08	09/20/22 18:52	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/19/22 18:08	09/20/22 18:52	7440-48-4	
_ead	ND	mg/L	0.0010	0.00089	1	09/19/22 18:08	09/20/22 18:52	7439-92-1	
ithium	ND	mg/L	0.030	0.00073	1	09/19/22 18:08	09/20/22 18:52	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/19/22 18:08	09/20/22 18:52	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/22 18:08	09/20/22 18:52	7782-49-2	
Γhallium	ND	mg/L	0.0010	0.00018	1	09/19/22 18:08	09/20/22 18:52	7440-28-0	
7470 Mercury	Analytical I	Method: EPA 7	470A Prep	paration Met	hod: EP	A 7470A			
·	Pace Analy	tical Services	- Peachtre	e Corners, C	SA.				
Mercury	ND	mg/L	0.00020	0.00013	1	09/26/22 10:00	09/26/22 14:38	7439-97-6	
2540C Total Dissolved Solids	Analytical I	Method: SM 25	540C-2015						
	Pace Analy	tical Services	- Peachtre	e Corners, C	SA.				
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/05/22 13:09		
300.0 IC Anions 28 Days	Analytical I	Method: EPA 3	00.0 Rev 2	2.1 1993					
•	Pace Analy	tical Services	- Asheville						
Chloride	ND	mg/L	1.0	0.60	1		09/09/22 00:18	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/09/22 00:18	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/09/22 00:18	14808-79-8	



ANALYTICAL RESULTS

Project: Plant Yates AP-2
Pace Project No.: 92623533

Sample: YGWC-27S	Lab ID:	92623533005	Collecte	ed: 09/01/22	2 10:30	Received: 09/	02/22 09:15 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Anal	ytical Services	- Charlotte						
Performed by	Customer				1		09/23/22 09:55		
рН	6.13	Std. Units			1		09/23/22 09:55		
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	thod: EF	PA 3010A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	βA				
Calcium	21.3	mg/L	1.0	0.12	1	09/16/22 11:02	09/16/22 15:45	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Prep	paration Met	hod: EF	PA 3005A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	3A				
Antimony	ND	mg/L	0.0030	0.00078	1	09/19/22 18:08	09/20/22 20:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/19/22 18:08	09/20/22 20:28	7440-38-2	
Barium	0.049	mg/L	0.0050	0.00067	1	09/19/22 18:08	09/20/22 20:28	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/19/22 18:08	09/20/22 20:28	7440-41-7	
Boron	1.0	mg/L	0.040	0.0086	1	09/19/22 18:08	09/20/22 20:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/19/22 18:08	09/20/22 20:28	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/22 18:08	09/20/22 20:28	7440-47-3	
Cobalt	0.0015J	mg/L	0.0050	0.00039	1	09/19/22 18:08	09/20/22 20:28	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/19/22 18:08	09/20/22 20:28	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/19/22 18:08	09/20/22 20:28	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/19/22 18:08	09/20/22 20:28	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/22 18:08	09/20/22 20:28	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/22 18:08	09/20/22 20:28	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	βA				
Mercury	0.00019J	mg/L	0.00020	0.00013	1	09/20/22 16:00	09/21/22 12:44	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015						
	Pace Anal	ytical Services	- Peachtre	e Corners, C	3A				
Total Dissolved Solids	124	mg/L	25.0	10.0	1		09/06/22 14:53		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0 Rev 2	2.1 1993					
	Pace Anal	ytical Services	- Asheville						
Chloride	10.4	mg/L	1.0	0.60	1		09/08/22 20:52	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.050	1		09/08/22 20:52		
Sulfate	13.5	mg/L	1.0	0.50	1		09/08/22 20:52		



ANALYTICAL RESULTS

Project: Plant Yates AP-2 Pace Project No.: 92623533

Sample: YGWC-27I	Lab ID:	92623533006	Collecte	d: 09/01/22	2 09:25	Received: 09/	/02/22 09:15 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	Customer				1		09/23/22 09:55		
рН	6.13	Std. Units			1		09/23/22 09:55		
6010D ATL ICP	Analytical	Method: EPA 6	010D Prep	aration Met	thod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	ЭΑ				
Calcium	28.2	mg/L	1.0	0.12	1	09/16/22 11:02	09/16/22 15:50	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Prep	aration Met	thod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	ЭΑ				
Antimony	ND	mg/L	0.0030	0.00078	1	09/19/22 18:08	09/20/22 20:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/19/22 18:08	09/20/22 20:34	7440-38-2	
Barium	0.076	mg/L	0.0050	0.00067	1	09/19/22 18:08	09/20/22 20:34	7440-39-3	
Beryllium	0.00012J	mg/L	0.00050	0.000054	1	09/19/22 18:08	09/20/22 20:34	7440-41-7	
Boron	2.3	mg/L	0.040	0.0086	1	09/19/22 18:08	09/20/22 20:34	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/19/22 18:08	09/20/22 20:34	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/22 18:08	09/20/22 20:34	7440-47-3	
Cobalt	0.0096	mg/L	0.0050	0.00039	1	09/19/22 18:08	09/20/22 20:34	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/19/22 18:08	09/20/22 20:34	7439-92-1	
Lithium	0.0069J	mg/L	0.030	0.00073	1	09/19/22 18:08	09/20/22 20:34	7439-93-2	
Molybdenum	0.0016J	mg/L	0.010	0.00074	1	09/19/22 18:08	09/20/22 20:34	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/22 18:08	09/20/22 20:34	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/22 18:08	09/20/22 20:34	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Prep	aration Met	hod: EF	PA 7470A			
-	Pace Ana	lytical Services	- Peachtree	Corners, C	ЭΑ				
Mercury	ND	mg/L	0.00020	0.00013	1	09/26/22 10:00	09/26/22 14:40	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015						
	Pace Ana	lytical Services	- Peachtree	Corners, C	ЭΑ				
Total Dissolved Solids	193	mg/L	25.0	10.0	1		09/05/22 13:13		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	.1 1993					
•	Pace Ana	lytical Services	- Asheville						
Chloride	13.4	mg/L	1.0	0.60	1		09/08/22 21:07	16887-00-6	
Fluoride	0.10	mg/L	0.10	0.050	1		09/08/22 21:07		
Sulfate	2.5	mg/L	1.0	0.50	1		09/08/22 21:07		



ANALYTICAL RESULTS

Project: Plant Yates AP-2
Pace Project No.: 92623533

Sample: YGWC-28S	Lab ID:	92623533007	Collecte	ed: 09/01/22	2 17:55	Received: 09/	/02/22 09:15 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
1 diameters	_ _					- Troparcu	- Analyzed	- OAO NO.	
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte)					
Performed by	Customer				1		09/23/22 09:56		
рН	6.59	Std. Units			1		09/23/22 09:56		
6010D ATL ICP	Analytical	Method: EPA 6	6010D Pre	paration Met	thod: Ef	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	ЭΑ				
Calcium	33.1	mg/L	1.0	0.12	1	09/16/22 11:02	09/16/22 15:54	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Pre	paration Met	thod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	GΑ				
Antimony	ND	mg/L	0.0030	0.00078	1	09/19/22 18:08	09/20/22 20:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/19/22 18:08			
Barium	0.20	mg/L	0.0050	0.00067	1	09/19/22 18:08			
Beryllium	ND	mg/L	0.00050	0.000054	1	09/19/22 18:08			
Boron	2.2	mg/L	0.040	0.0086	1	09/19/22 18:08	09/20/22 20:40	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/19/22 18:08	09/20/22 20:40	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/22 18:08	09/20/22 20:40	7440-47-3	
Cobalt	0.00071J	mg/L	0.0050	0.00039	1	09/19/22 18:08	09/20/22 20:40	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/19/22 18:08	09/20/22 20:40	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/19/22 18:08	09/20/22 20:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/19/22 18:08	09/20/22 20:40	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/22 18:08	09/20/22 20:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/22 18:08	09/20/22 20:40	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	7470A Pre	paration Met	hod: EF	PA 7470A			
•	-	lytical Services							
Mercury	ND	mg/L	0.00020	0.00013	1	09/26/22 10:00	09/26/22 14:43	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	GΑ				
Total Dissolved Solids	225	mg/L	25.0	10.0	1		09/05/22 13:13		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	16.5	mg/L	1.0	0.60	1		09/08/22 21:22	16887-00-6	
Fluoride	0.16	mg/L	0.10	0.050	1		09/08/22 21:22		
Sulfate	13.4	mg/L	1.0	0.50	1		09/08/22 21:22		



ANALYTICAL RESULTS

Project: Plant Yates AP-2 Pace Project No.: 92623533

Sample: YGWC-28I	Lab ID:	92623533008	Collecte	d: 09/01/22	2 11:40	Received: 09/	/02/22 09:15 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	Customer				1		09/23/22 09:56		
рН	6.41	Std. Units			1		09/23/22 09:56		
6010D ATL ICP	Analytical	Method: EPA 6	010D Prep	aration Met	thod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	ЭΑ				
Calcium	26.3	mg/L	1.0	0.12	1	09/16/22 11:02	09/16/22 15:59	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Prep	aration Met	thod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	ЭΑ				
Antimony	ND	mg/L	0.0030	0.00078	1	09/19/22 18:08	09/20/22 20:46	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/19/22 18:08	09/20/22 20:46	7440-38-2	
Barium	0.068	mg/L	0.0050	0.00067	1	09/19/22 18:08	09/20/22 20:46	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/19/22 18:08	09/20/22 20:46	7440-41-7	
Boron	1.8	mg/L	0.040	0.0086	1	09/19/22 18:08	09/20/22 20:46		
Cadmium	0.00017J	mg/L	0.00050	0.00011	1	09/19/22 18:08	09/20/22 20:46	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/22 18:08	09/20/22 20:46	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/19/22 18:08	09/20/22 20:46	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/19/22 18:08	09/20/22 20:46	7439-92-1	
Lithium	0.0066J	mg/L	0.030	0.00073	1	09/19/22 18:08	09/20/22 20:46	7439-93-2	
Molybdenum	0.0010J	mg/L	0.010	0.00074	1	09/19/22 18:08	09/20/22 20:46	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/22 18:08	09/20/22 20:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/22 18:08	09/20/22 20:46	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Prep	aration Met	hod: EF	A 7470A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	ЭΑ				
Mercury	ND	mg/L	0.00020	0.00013	1	09/21/22 09:00	09/21/22 12:57	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015						
	Pace Ana	lytical Services	- Peachtree	Corners, C	ЭΑ				
Total Dissolved Solids	186	mg/L	25.0	10.0	1		09/06/22 14:53		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2.	.1 1993					
•	Pace Ana	lytical Services	- Asheville						
Chloride	10.4	mg/L	1.0	0.60	1		09/09/22 09:02	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.050	1		09/09/22 09:02		
Sulfate	7.6	mg/L	1.0	0.50	1		09/09/22 09:02		



ANALYTICAL RESULTS

Project: Plant Yates AP-2
Pace Project No.: 92623533

Sample: AP-2-DUP-1	Lab ID: 9	2623533009	Collecte	ed: 09/01/22	2 00:00	Received: 09/	02/22 09:15 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	•	Method: EPA 6				PA 3010A			
	Pace Analy	tical Services	- Peachtre	e Corners, C	ЭΑ				
Calcium	26.3	mg/L	1.0	0.12	1	09/16/22 11:02	09/16/22 16:04	7440-70-2	
6020 MET ICPMS	Analytical M	Method: EPA 6	020B Pre	paration Met	thod: EF	PA 3005A			
	Pace Analy	tical Services	- Peachtre	e Corners, C	ЭΑ				
Antimony	ND	mg/L	0.0030	0.00078	1	09/19/22 18:08	09/20/22 20:52	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/19/22 18:08	09/20/22 20:52	7440-38-2	
Barium	0.065	mg/L	0.0050	0.00067	1	09/19/22 18:08	09/20/22 20:52	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/19/22 18:08	09/20/22 20:52	7440-41-7	
Boron	1.7	mg/L	0.040	0.0086	1	09/19/22 18:08	09/20/22 20:52	7440-42-8	
Cadmium	0.00011J	mg/L	0.00050	0.00011	1	09/19/22 18:08	09/20/22 20:52	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/22 18:08	09/20/22 20:52	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/19/22 18:08	09/20/22 20:52	7440-48-4	
₋ead	ND	mg/L	0.0010	0.00089	1	09/19/22 18:08	09/20/22 20:52	7439-92-1	
₋ithium	0.0063J	mg/L	0.030	0.00073	1	09/19/22 18:08	09/20/22 20:52	7439-93-2	
Molybdenum	0.0011J	mg/L	0.010	0.00074	1	09/19/22 18:08	09/20/22 20:52	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/22 18:08	09/20/22 20:52	7782-49-2	
Γhallium	ND	mg/L	0.0010	0.00018	1	09/19/22 18:08	09/20/22 20:52	7440-28-0	
7470 Mercury	Analytical M	Method: EPA 7	470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Analy	tical Services	- Peachtre	e Corners, C	ЭΑ				
Mercury	ND	mg/L	0.00020	0.00013	1	09/21/22 09:00	09/21/22 13:13	7439-97-6	
2540C Total Dissolved Solids	Analytical M	Nethod: SM 25	540C-2015						
	Pace Analy	tical Services	- Peachtre	e Corners, C	ЭΑ				
Total Dissolved Solids	170	mg/L	25.0	10.0	1		09/06/22 14:53		
300.0 IC Anions 28 Days	•	Method: EPA 3 tical Services							
Chloride	10.3	mg/L	1.0	0.60	1		09/09/22 09:17	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.050	1		09/09/22 09:17	16984-48-8	
Sulfate	7.5	mg/L	1.0	0.50	1		09/09/22 09:17	14808-79-8	



ANALYTICAL RESULTS

Project: Plant Yates AP-2 Pace Project No.: 92623533

Sample: YGWC-29I	Lab ID:	92623533010	Collecte	d: 09/01/22	2 14:40	Received: 09/	/02/22 09:15 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	Customer				1		09/23/22 09:56		
рН	6.05	Std. Units			1		09/23/22 09:56		
6010D ATL ICP	Analytical	Method: EPA 6	010D Prep	paration Met	thod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	ЭΑ				
Calcium	11.0	mg/L	1.0	0.12	1	09/16/22 11:02	09/16/22 16:09	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Prep	paration Met	thod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	ЭΑ				
Antimony	ND	mg/L	0.0030	0.00078	1	09/19/22 18:12	09/20/22 21:27	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/19/22 18:12	09/20/22 21:27	7440-38-2	
Barium	0.057	mg/L	0.0050	0.00067	1	09/19/22 18:12	09/20/22 21:27	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/19/22 18:12	09/20/22 21:27	7440-41-7	
Boron	0.71	mg/L	0.040	0.0086	1	09/19/22 18:12	09/20/22 21:27	7440-42-8	
Cadmium	0.00020J	mg/L	0.00050	0.00011	1	09/19/22 18:12	09/20/22 21:27	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1		09/20/22 21:27		
Cobalt	ND	mg/L	0.0050	0.00039	1	09/19/22 18:12	09/20/22 21:27	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/19/22 18:12	09/20/22 21:27	7439-92-1	
Lithium	0.0051J	mg/L	0.030	0.00073	1	09/19/22 18:12	09/20/22 21:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/19/22 18:12	09/20/22 21:27	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/22 18:12	09/20/22 21:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/22 18:12	09/20/22 21:27	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Prep	aration Met	hod: EF	PA 7470A			
•	Pace Ana	lytical Services	- Peachtre	e Corners, C	ЭΑ				
Mercury	ND	mg/L	0.00020	0.00013	1	09/21/22 09:00	09/21/22 13:15	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	ЭΑ				
Total Dissolved Solids	128	mg/L	25.0	10.0	1		09/06/22 14:53		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	.1 1993					
•	Pace Ana	lytical Services	- Asheville						
Chloride	8.1	mg/L	1.0	0.60	1		09/09/22 09:32	16887-00-6	
Fluoride	0.091J	mg/L	0.10	0.050	1		09/09/22 09:32		
Sulfate	21.2	mg/L	1.0	0.50	1		09/09/22 09:32		



ANALYTICAL RESULTS

Project: Plant Yates AP-2
Pace Project No.: 92623533

Sample: AP-2-EB-2	Lab ID:	92623533011	Collecte	ed: 09/01/2	2 18:00	Received: 09/	02/22 09:15 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	•	Method: EPA 6				PA 3010A			
	Pace Anal	ytical Services	- Peachtre	e Corners, (ЗA				
Calcium	ND	mg/L	1.0	0.12	1	09/16/22 11:02	09/16/22 16:13	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	thod: EF	PA 3005A			
	Pace Anal	ytical Services	- Peachtre	e Corners, 0	ЭΑ				
Antimony	ND	mg/L	0.0030	0.00078	1	09/19/22 18:12	09/20/22 21:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/19/22 18:12	09/20/22 21:33	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/19/22 18:12	09/20/22 21:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/19/22 18:12	09/20/22 21:33	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/19/22 18:12	09/20/22 21:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/19/22 18:12	09/20/22 21:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/22 18:12	09/20/22 21:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/19/22 18:12	09/20/22 21:33	7440-48-4	
_ead	ND	mg/L	0.0010	0.00089	1	09/19/22 18:12	09/20/22 21:33	7439-92-1	
_ithium	ND	mg/L	0.030	0.00073	1	09/19/22 18:12	09/20/22 21:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/19/22 18:12	09/20/22 21:33	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/22 18:12	09/20/22 21:33	7782-49-2	
Γhallium	ND	mg/L	0.0010	0.00018	1	09/19/22 18:12	09/20/22 21:33	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	7470A Pre	paration Met	thod: EF	PA 7470A			
	Pace Anal	ytical Services	- Peachtre	e Corners, 0	GΑ				
Mercury	ND	mg/L	0.00020	0.00013	1	09/21/22 09:00	09/21/22 13:18	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Anal	ytical Services	- Peachtre	e Corners, 0	GΑ				
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/06/22 14:53		
300.0 IC Anions 28 Days	•	Method: EPA 3 ytical Services							
Chloride	ND	mg/L	1.0	0.60	1		09/09/22 09:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/09/22 09:47	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/09/22 09:47		



ANALYTICAL RESULTS

Project: Plant Yates AP-2
Pace Project No.: 92623533

Sample: AP-2-FB-2	Lab ID:	Lab ID: 92623533012 Collected: 09/01/22 14:50 Received: 09/02/22 09:15 Matrix: Water										
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua			
6010D ATL ICP	•	Method: EPA 6				PA 3010A						
	Pace Anal	ytical Services	- Peachtre	e Corners, 0	ЭA							
Calcium	ND	mg/L	1.0	0.12	1	09/16/22 11:02	09/16/22 16:42	7440-70-2				
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	thod: EF	PA 3005A						
	Pace Analy	ytical Services	- Peachtre	e Corners, 0	GΑ							
Antimony	ND	mg/L	0.0030	0.00078	1	09/19/22 18:12	09/20/22 21:39	7440-36-0				
Arsenic	ND	mg/L	0.0050	0.0022	1	09/19/22 18:12	09/20/22 21:39	7440-38-2				
Barium	ND	mg/L	0.0050	0.00067	1	09/19/22 18:12	09/20/22 21:39	7440-39-3				
Beryllium	ND	mg/L	0.00050	0.000054	1	09/19/22 18:12	09/20/22 21:39	7440-41-7				
Boron	ND	mg/L	0.040	0.0086	1	09/19/22 18:12	09/20/22 21:39	7440-42-8				
Cadmium	ND	mg/L	0.00050	0.00011	1	09/19/22 18:12	09/20/22 21:39	7440-43-9				
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/22 18:12	09/20/22 21:39	7440-47-3				
Cobalt	ND	mg/L	0.0050	0.00039	1	09/19/22 18:12	09/20/22 21:39	7440-48-4				
Lead	ND	mg/L	0.0010	0.00089	1	09/19/22 18:12	09/20/22 21:39	7439-92-1				
Lithium	ND	mg/L	0.030	0.00073	1	09/19/22 18:12	09/20/22 21:39	7439-93-2				
Molybdenum	ND	mg/L	0.010	0.00074	1	09/19/22 18:12	09/20/22 21:39	7439-98-7				
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/22 18:12	09/20/22 21:39	7782-49-2				
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/22 18:12	09/20/22 21:39	7440-28-0				
7470 Mercury	Analytical	Method: EPA 7	7470A Pre	paration Met	thod: EF	PA 7470A						
	Pace Analy	ytical Services	- Peachtre	e Corners, 0	GΑ							
Mercury	ND	mg/L	0.00020	0.00013	1	09/21/22 09:00	09/21/22 13:21	7439-97-6				
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015									
	Pace Anal	ytical Services	- Peachtre	e Corners, 0	GΑ							
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/06/22 14:53					
300.0 IC Anions 28 Days	•	Method: EPA 3 ytical Services										
Chloride	ND	mg/L	1.0	0.60	1		09/09/22 10:02	16887-00-6				
Fluoride	ND	mg/L	0.10	0.050	1		09/09/22 10:02	16984-48-8				
Sulfate	ND	mg/L	1.0	0.50	1		09/09/22 10:02					



Plant Yates AP-2 Project:

Pace Project No.: 92623533

Date: 09/27/2022 10:13 AM

QC Batch: 723576 Analysis Method: EPA 6010D QC Batch Method: **EPA 3010A** Analysis Description: 6010D ATL

> Laboratory: Pace Analytical Services - Peachtree Corners, GA

92623533001, 92623533002, 92623533003, 92623533004 Associated Lab Samples:

METHOD BLANK: 3770129 Matrix: Water

Associated Lab Samples: 92623533001, 92623533002, 92623533003, 92623533004

> Blank Reporting MDL Qualifiers Parameter Units Result Limit Analyzed

Calcium ND 1.0 0.12 09/15/22 20:13 mg/L

LABORATORY CONTROL SAMPLE: 3770130

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3770131 3770132

> MSD MS

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

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.



Project: Plant Yates AP-2

Pace Project No.: 92623533

QC Batch: 723769 Analysis Method: EPA 6010D QC Batch Method: **EPA 3010A** Analysis Description: 6010D ATL

> Laboratory: Pace Analytical Services - Peachtree Corners, GA

92623533005, 92623533006, 92623533007, 92623533008, 92623533009, 92623533010, 92623533011, Associated Lab Samples:

92623533012

METHOD BLANK: 3771218 Matrix: Water

92623533005, 92623533006, 92623533007, 92623533008, 92623533009, 92623533010, 92623533011, Associated Lab Samples:

92623533012

Blank Reporting Parameter Units Limit MDL Qualifiers Result Analyzed Calcium mg/L ND 1.0 0.12 09/16/22 14:45

LABORATORY CONTROL SAMPLE: 3771219

Date: 09/27/2022 10:13 AM

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3771220 3771221

> MSD MS

92623532021 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual Calcium 20 M1 11.1 1 12.1 11.8 99 66 75-125 3 mg/L

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.



Project: Plant Yates AP-2

Pace Project No.: 92623533

Date: 09/27/2022 10:13 AM

QC Batch: 724231 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92623533001, 92623533002, 92623533003, 92623533004, 92623533005, 92623533006, 92623533007,

92623533008, 92623533009

METHOD BLANK: 3773717 Matrix: Water

Associated Lab Samples: 92623533001, 92623533002, 92623533003, 92623533004, 92623533005, 92623533006, 92623533007,

92623533008, 92623533009

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/20/22 18:05	
Arsenic	mg/L	ND	0.0050	0.0022	09/20/22 18:05	
Barium	mg/L	ND	0.0050	0.00067	09/20/22 18:05	
Beryllium	mg/L	ND	0.00050	0.000054	09/20/22 18:05	
Boron	mg/L	ND	0.040	0.0086	09/20/22 18:05	
Cadmium	mg/L	ND	0.00050	0.00011	09/20/22 18:05	
Chromium	mg/L	ND	0.0050	0.0011	09/20/22 18:05	
Cobalt	mg/L	ND	0.0050	0.00039	09/20/22 18:05	
Lead	mg/L	ND	0.0010	0.00089	09/20/22 18:05	
Lithium	mg/L	ND	0.030	0.00073	09/20/22 18:05	
Molybdenum	mg/L	ND	0.010	0.00074	09/20/22 18:05	
Selenium	mg/L	ND	0.0050	0.0014	09/20/22 18:05	
Thallium	mg/L	ND	0.0010	0.00018	09/20/22 18:05	

LABORATORY CONTROL SAMPLE:	3773718	Spike	LC	`C	LCS	% F	200				
Parameter	Units	Conc.	Res		% Rec	Lim		Qualifiers			
Antimony	mg/L	0.	1	0.10	103	 3	80-120				
Arsenic	mg/L	0.	1	0.098	98	3	80-120				
Barium	mg/L	0.	1	0.099	99	9	80-120				
Beryllium	mg/L	0.	1	0.096	90	3	80-120				
Boron	mg/L		1	1.0	103	3	80-120				
Cadmium	mg/L	0.	1	0.10	10 ⁻	1	80-120				
Chromium	mg/L	0.	1	0.10	100)	80-120				
Cobalt	mg/L	0.	1	0.099	99	9	80-120				
Lead	mg/L	0.	1	0.096	90	3	80-120				
Lithium	mg/L	0.	1	0.096	90	3	80-120				
Molybdenum	mg/L	0.	1	0.10	10	1	80-120				
Selenium	mg/L	0.	1	0.097	9	7	80-120				
Thallium	mg/L	0.	1	0.099	99	9	80-120				
MATRIX SPIKE & MATRIX SPIKE DU	PLICATE: 3773	719		3773720)						
		MS	MSD								
	92623533001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter Unit	s Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Antimony mg/		0.1	0.1	0.10	0.11	102	105	75-125	3	20	

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



Project: Plant Yates AP-2

Pace Project No.: 92623533

Date: 09/27/2022 10:13 AM

	_		MS	MSD								
_		2623533001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	2	20	
Barium	mg/L	0.024	0.1	0.1	0.12	0.13	100	105	75-125	4	20	
Beryllium	mg/L	0.000074J	0.1	0.1	0.086	0.089	86	89	75-125	3	20	
Boron	mg/L	0.70	1	1	1.7	1.7	98	103	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.098	0.10	98	101	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.11	101	105	75-125	3	20	
Cobalt	mg/L	0.0026J	0.1	0.1	0.10	0.11	101	103	75-125	3	20	
₋ead	mg/L	ND	0.1	0.1	0.093	0.096	93	96	75-125	3	20	
_ithium	mg/L	ND	0.1	0.1	0.085	0.089	85	89	75-125	5	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	2	20	

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



Project: Plant Yates AP-2

Pace Project No.: 92623533

Date: 09/27/2022 10:13 AM

QC Batch: 724235 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92623533010, 92623533011, 92623533012

METHOD BLANK: 3773750 Matrix: Water

Associated Lab Samples: 92623533010, 92623533011, 92623533012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/20/22 21:15	
Arsenic	mg/L	ND	0.0050	0.0022	09/20/22 21:15	
Barium	mg/L	ND	0.0050	0.00067	09/20/22 21:15	
Beryllium	mg/L	ND	0.00050	0.000054	09/20/22 21:15	
Boron	mg/L	ND	0.040	0.0086	09/20/22 21:15	
Cadmium	mg/L	ND	0.00050	0.00011	09/20/22 21:15	
Chromium	mg/L	ND	0.0050	0.0011	09/20/22 21:15	
Cobalt	mg/L	ND	0.0050	0.00039	09/20/22 21:15	
_ead	mg/L	ND	0.0010	0.00089	09/20/22 21:15	
_ithium	mg/L	ND	0.030	0.00073	09/20/22 21:15	
Molybdenum	mg/L	ND	0.010	0.00074	09/20/22 21:15	
Selenium	mg/L	ND	0.0050	0.0014	09/20/22 21:15	
Thallium	mg/L	ND	0.0010	0.00018	09/20/22 21:15	

LABORATORY CONTROL SAMPLE:	3773751					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Antimony	mg/L	0.1	0.10	103	80-120	_
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.095	95	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	0.097	97	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Lead	mg/L	0.1	0.094	94	80-120	
Lithium	mg/L	0.1	0.095	95	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SF	IKE DUPL	ICATE: 3773	756		3773757							
			MS	MSD								
		92624984004	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	105	104	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.098	0.098	98	97	75-125	0	20	

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



Project: Plant Yates AP-2

Pace Project No.: 92623533

Date: 09/27/2022 10:13 AM

MATRIX SPIKE & MATRIX	SPIKE DUPLI	CATE: 3773	756		3773757							
Parameter	ų Units	92624984004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	32.4 ug/L	0.1	0.1	0.14	0.14	103	104	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.092	0.090	92	90	75-125	2	20	
Boron	mg/L	39.7J ug/L	1	1	1.0	1.0	99	97	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.099	0.10	98	101	75-125	2	20	
Cobalt	mg/L	0.51J ug/L	0.1	0.1	0.098	0.10	97	100	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.097	0.093	96	93	75-125	4	20	
Lithium	mg/L	ND	0.1	0.1	0.092	0.090	92	90	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.096	0.098	96	98	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	3	20	

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



Project: Plant Yates AP-2

Pace Project No.: 92623533

Mercury

Date: 09/27/2022 10:13 AM

QC Batch: 724414 Analysis Method:
QC Batch Method: EPA 7470A Analysis Description:

Laboratory: Pace Analytical Services - Peachtree Corners, GA

EPA 7470A

7470 Mercury

Associated Lab Samples: 92623533001, 92623533005

METHOD BLANK: 3774307 Matrix: Water

Associated Lab Samples: 92623533001, 92623533005

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Mercury mg/L ND 0.00020 0.00013 09/21/22 11:36

LABORATORY CONTROL SAMPLE: 3774308

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units mg/L 0.0025 0.0029 115 80-120

3774309 MS MSD

92623532012 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Result Result % Rec % Rec **RPD** RPD Qual Result Conc. Limits 0.00016J 124 20 R1 Mercury mg/L 0.0025 0.0025 0.0033 0.0026 96 75-125

3774310

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.



Project:

Plant Yates AP-2

Pace Project No.:

92623533

QC Batch:

724415

QC Batch Method: EPA 7470A Analysis Method:

EPA 7470A

Analysis Description:

7470 Mercury

Laboratory:

Pace Analytical Services - Peachtree Corners, GA

92623533008, 92623533009, 92623533010, 92623533011, 92623533012 Associated Lab Samples:

METHOD BLANK: 3774316

Associated Lab Samples:

Matrix: Water

92623533008, 92623533009, 92623533010, 92623533011, 92623533012

Blank

Reporting

Result

Limit

MDL

Analyzed

Qualifiers

Mercury

Mercury

Units

mg/L

Units

mg/L

ND

0.00020

0.00013

09/21/22 12:52

80-120

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

3774317

Spike Conc.

0.0025

LCS Result

LCS % Rec

MSD

% Rec Limits

Qualifiers

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

3774318

MSD

ND

MS Spike Spike

MS

3774319

0.0026

MS % Rec MSD

103

% Rec

75-125

Max

Mercury

Date: 09/27/2022 10:13 AM

92623533008 Parameter Units Result

mg/L

Conc. Conc. 0.0025 0.0025

Result 0.0024 Result 0.0026

102

% Rec

97

Limits

RPD RPD

Qual 6 20

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



Project: Plant Yates AP-2

Pace Project No.: 92623533

Date: 09/27/2022 10:13 AM

QC Batch: 725598 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92623533002, 92623533003, 92623533004, 92623533006, 92623533007

METHOD BLANK: 3780173 Matrix: Water

Associated Lab Samples: 92623533002, 92623533003, 92623533004, 92623533006, 92623533007

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Mercury mg/L ND 0.00020 0.00013 09/26/22 14:27

LABORATORY CONTROL SAMPLE: 3780174

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units Mercury 0.0025 0.0024 95 80-120 mg/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3780175 3780176

MSD MS 92624810001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Result Result **RPD** RPD Qual Result Conc. % Rec % Rec Limits 0.0025 Mercury mg/L ND 0.0025 0.0023 0.0023 91 90 75-125 20

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



Project: Plant Yates AP-2

Pace Project No.: 92623533

QC Batch: 721455 Analysis Method: SM 2540C-2015

mg/L

QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92623533001, 92623533002

METHOD BLANK: 3759030 Matrix: Water

Associated Lab Samples: 92623533001, 92623533002

Parameter Units Result Limit MDL Analyzed Qualifiers

Total Dissolved Solids mg/L ND 25.0 10.0 09/05/22 12:59

LABORATORY CONTROL SAMPLE: 3759031

Spike LCS LCS % Rec
Parameter Units Conc. Result % Rec Limits Qualifiers

389

97

80-120

SAMPLE DUPLICATE: 3759032

Total Dissolved Solids

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

400

SAMPLE DUPLICATE: 3759033

Date: 09/27/2022 10:13 AM

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

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.



Project: Plant Yates AP-2

Pace Project No.: 92623533

QC Batch: 721456 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: 92623533003, 92623533004, 92623533006, 92623533007

METHOD BLANK: 3759034 Matrix: Water

Associated Lab Samples: 92623533003, 92623533004, 92623533006, 92623533007

Blank Reporting

Parameter Units Result Limit MDL Analyzed Qualifiers

Total Dissolved Solids mg/L ND 25.0 10.0 09/05/22 13:08

LABORATORY CONTROL SAMPLE: 3759035

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits

ParameterUnitsConc.Result% RecLimitsQualifiersTotal Dissolved Solidsmg/L4003829680-120

SAMPLE DUPLICATE: 3759036

92623532004 Dup Max
Parameter Units Result Result RPD RPD Qualifiers

Total Dissolved Solids mg/L 336 338 1 25

SAMPLE DUPLICATE: 3759037

Date: 09/27/2022 10:13 AM

92623532013 Dup Max RPD RPD Parameter Units Result Result Qualifiers Total Dissolved Solids 908 930 2 mg/L 25

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.



Project: Plant Yates AP-2

Pace Project No.: 92623533

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: 92623533005, 92623533008, 92623533009, 92623533010, 92623533011, 92623533012

METHOD BLANK: 3759489 Matrix: Water

Associated Lab Samples: 92623533005, 92623533008, 92623533009, 92623533010, 92623533011, 92623533012

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Total Dissolved Solids mg/L ND 25.0 10.0 09/06/22 14:51

LABORATORY CONTROL SAMPLE: 3759490

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

SAMPLE DUPLICATE: 3759491

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

SAMPLE DUPLICATE: 3759492

Date: 09/27/2022 10:13 AM

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

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.



Project: Plant Yates AP-2

Pace Project No.: 92623533

Date: 09/27/2022 10:13 AM

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: 92623533001, 92623533002, 92623533003, 92623533004

METHOD BLANK: 3761879 Matrix: Water

Associated Lab Samples: 92623533001, 92623533002, 92623533003, 92623533004

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

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3761	881		3761882							
		92623532006	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
		92023332000	Spike	Opike	IVIO	IVIOD	IVIO	IVIOD	/0 IXEC		iviax	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
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 SP	IKE DUPL	ICATE: 3761	883		3761884							
			MS	MSD								
		92623294009	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
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	

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.



Project: Plant Yates AP-2

I ARODATORY CONTROL SAMPLE.

Date: 09/27/2022 10:13 AM

Pace Project No.: 92623533

QC Batch: 722013 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: 92623533005, 92623533006, 92623533007, 92623533008, 92623533009, 92623533011,

92623533012

METHOD BLANK: 3761892 Matrix: Water

Associated Lab Samples: 92623533005, 92623533006, 92623533007, 92623533008, 92623533009, 92623533011,

92623533012

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/08/22 16:08	
Fluoride	mg/L	ND	0.10	0.050	09/08/22 16:08	
Sulfate	mg/L	ND	1.0	0.50	09/08/22 16:08	

LABORATORT CONTROL SAMPLE.	3701093	Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Chloride	mg/L	50	50.4	101	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	50.3	101	90-110	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3761	894		3761895							
			MS	MSD								
		92623532014	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	3.8	50	50	55.4	55.8	103	104	90-110	1	10	
Fluoride	mg/L	0.057J	2.5	2.5	2.4	2.5	94	97	90-110	3	10	
Sulfate	mg/L	495	50	50	542	537	94	84	90-110	1	10	M1

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3761	896		3761897							
			MS	MSD								
		92623532024	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	ND	50	50	50.7	51.8	101	104	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	99	103	90-110	4	10	
Sulfate	mg/L	ND	50	50	50.1	51.6	100	103	90-110	3	10	

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



QUALIFIERS

Project: Plant Yates AP-2
Pace Project No.: 92623533

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

Date: 09/27/2022 10:13 AM

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.

R1 RPD value was outside control limits.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates AP-2
Pace Project No.: 92623533

Analytical QC Batch Method QC Batch Lab ID Sample ID **Analytical Method Batch** YGWC-26S 92623533001 92623533002 YGWC-26I 92623533005 YGWC-27S 92623533006 YGWC-27I 92623533007 **YGWC-28S** 92623533008 YGWC-28I 92623533010 YGWC-29I 92623533001 YGWC-26S **EPA 3010A** 723576 **EPA 6010D** 723671 723671 92623533002 YGWC-26I **EPA 3010A** 723576 **EPA 6010D** 92623533003 AP-2 EB-1 **EPA 3010A** 723576 **EPA 6010D** 723671 92623533004 AP-2 FB-1 **EPA 3010A** 723576 **EPA 6010D** 723671 92623533005 YGWC-27S **EPA 3010A** 723769 **EPA 6010D** 723848 92623533006 YGWC-27I **EPA 3010A** 723769 **EPA 6010D** 723848 92623533007 **YGWC-28S EPA 3010A EPA 6010D** 723848 723769 92623533008 YGWC-28I **EPA 3010A** 723769 FPA 6010D 723848 92623533009 AP-2-DUP-1 **EPA 3010A** 723769 EPA 6010D 723848 92623533010 YGWC-29I **EPA 3010A** 723769 **EPA 6010D** 723848 92623533011 AP-2-EB-2 **EPA 3010A** 723769 EPA 6010D 723848 92623533012 AP-2-FB-2 **EPA 3010A** 723769 **EPA 6010D** 723848 YGWC-26S 92623533001 **EPA 3005A** 724231 **EPA 6020B** 724354 92623533002 YGWC-26I **EPA 3005A** 724231 **EPA 6020B** 724354 92623533003 AP-2 EB-1 **EPA 3005A** 724231 **EPA 6020B** 724354 92623533004 AP-2 FB-1 724354 EPA 3005A 724231 EPA 6020B 92623533005 YGWC-27S **EPA 3005A** 724231 724354 **EPA 6020B** 92623533006 YGWC-27I **EPA 3005A** 724231 **EPA 6020B** 724354 92623533007 YGWC-28S EPA 3005A 724231 EPA 6020B 724354 YGWC-28I 92623533008 EPA 3005A 724231 EPA 6020B 724354 92623533009 AP-2-DUP-1 **EPA 3005A** 724231 **EPA 6020B** 724354 92623533010 YGWC-29I **EPA 3005A** 724235 **EPA 6020B** 724356 92623533011 AP-2-EB-2 724235 **EPA 6020B** 724356 **EPA 3005A** 92623533012 AP-2-FB-2 **EPA 3005A** 724235 **EPA 6020B** 724356 92623533001 YGWC-26S **EPA 7470A** 724414 **EPA 7470A** 724673 92623533002 YGWC-26I **EPA 7470A** 725598 EPA 7470A 725794 92623533003 **AP-2 EB-1** 725598 **EPA 7470A** EPA 7470A 725794 92623533004 AP-2 FB-1 **EPA 7470A** 725598 **EPA 7470A** 725794 92623533005 724414 YGWC-27S **EPA 7470A** EPA 7470A 724673 92623533006 YGWC-27I **EPA 7470A** 725598 **EPA 7470A** 725794 92623533007 YGWC-28S **EPA 7470A** 725598 EPA 7470A 725794 92623533008 YGWC-28I **EPA 7470A** 724415 **EPA 7470A** 724676 92623533009 AP-2-DUP-1 **EPA 7470A** 724415 **EPA 7470A** 724676 92623533010 YGWC-29I **EPA 7470A** 724415 EPA 7470A 724676 92623533011 AP-2-FB-2 FPA 7470A 724415 FPA 7470A 724676 92623533012 AP-2-FB-2 **EPA 7470A** 724415 **EPA 7470A** 724676 92623533001 YGWC-26S SM 2540C-2015 721455

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates AP-2

Pace Project No.: 92623533

Date: 09/27/2022 10:13 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
92623533002	YGWC-26I	SM 2540C-2015	721455		
92623533003	AP-2 EB-1	SM 2540C-2015	721456		
92623533004	AP-2 FB-1	SM 2540C-2015	721456		
92623533005	YGWC-27S	SM 2540C-2015	721563		
92623533006	YGWC-27I	SM 2540C-2015	721456		
92623533007	YGWC-28S	SM 2540C-2015	721456		
92623533008	YGWC-28I	SM 2540C-2015	721563		
92623533009	AP-2-DUP-1	SM 2540C-2015	721563		
92623533010	YGWC-29I	SM 2540C-2015	721563		
92623533011	AP-2-EB-2	SM 2540C-2015	721563		
92623533012	AP-2-FB-2	SM 2540C-2015	721563		
92623533001	YGWC-26S	EPA 300.0 Rev 2.1 1993	722008		
92623533002	YGWC-26I	EPA 300.0 Rev 2.1 1993	722008		
92623533003	AP-2 EB-1	EPA 300.0 Rev 2.1 1993	722008		
92623533004	AP-2 FB-1	EPA 300.0 Rev 2.1 1993	722008		
92623533005	YGWC-27S	EPA 300.0 Rev 2.1 1993	722013		
92623533006	YGWC-27I	EPA 300.0 Rev 2.1 1993	722013		
92623533007	YGWC-28S	EPA 300.0 Rev 2.1 1993	722013		
92623533008	YGWC-28I	EPA 300.0 Rev 2.1 1993	722013		
92623533009	AP-2-DUP-1	EPA 300.0 Rev 2.1 1993	722013		
92623533010	YGWC-29I	EPA 300.0 Rev 2.1 1993	722013		
92623533011	AP-2-EB-2	EPA 300.0 Rev 2.1 1993	722013		
92623533012	AP-2-FB-2	EPA 300.0 Rev 2.1 1993	722013		



Effective Date: 05/12/2022

Laboratory receiving samples:					
	ntersvil	le 📗	Raleigh		Med MOH · OOCOOF
Sample Condition Client Name: Upon Receipt			,	roie	Mec WO#: 92623533
Courler: Fed Ex DUP	CV			_	
Commercial Pace	USPS]Cli	ent	92623533
Contacts Seed Breezes 2			_		35 / · · (Table
Custody Seal Present? Yes 100 Seals Into	ect?	Yes	□No		Date/Initials Person Examining Contents: 9///12
Packing Material: Bubble Wrap Bubble	Rags	None	- [] 0	her	(det
Thermometer:	0083	Пионе		iiei	Biological Tissue Frozen? ☐Yes ☐No ☐N/A
	Type of Ice	: 🗀	Wet □B	ue	None
Cooler Temp: Correction Factor: Add/Subtract (*C)	/a 0		-		Service Ameri
	0.0		ŧ		Temp should be above freezing to 6°C Samples out of temp criteria Samples on ice, cooling process
Cooler Temp Corrected (°C): USDA Regulated Soil (\sum N/A, water sample)	2				has begun
Did samples originate in a quarantine zone within the Unit	ed States:	CA, NY,	or SC		Did samples originate from a foreign source (internationally,
(check maps)?					including Hawaii and Puerto Rico)? Yes No
Chain of Custody Present?	eres			 	Comments/Discrepancy:
Samples Arrived within Hold Time?	[]res		□N/A	1.	
Short Hold Time Analysis (<72 hr.)?	Yes	□N ₀	□N/A	2	
Rush Turn Around Time Requested?	Yes	□N ₀	□N/A	3.	
Sufficient Volume?	22		□N/A	4.	
Correct Containers Used?	Pes	□No	□N/A	5.	
-Pace Containers Used?	☑Yes ☑Yes		□n/a □n/a	6.	
Containers Intact?	- Tres	, □No	□N/A	7.	
Dissolved analysis: Samples Field Filtered?	□Y95	□No	₽ ₩/A	8.	
Sample Labels Match COC?	Yes	□No	□N/A	9.	
	. /				
-Includes Date/Time/ID/Analysis Matrix:	<u> </u>				
Headspace in VOA Vials (>5-6mm)?	Yes	□No	□ N/A	10.	
Trip Blank Present?	□Yes	□No	MA	11.	
Trip Blank Custody Seals Present?	Yes	□No	N/A		
COMMENTS/SAMPLE DISCREPANCY				-	Field Data Required? Yes No
CLIENT NOTIFICATION/RESOLUTION			<u>i</u>	ot ID	of split containers:
				_	pH Strip Lot# 10D4611
			response arrested a	-	
Person contacted:			Date/Time		
Project Manager SCURF Review:					Date
		******		Western.	Date:
Project Manager SRF Review:					Date:



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, 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

) (CI-)						(6<) H	Ţ	erved	(CI-)		(-1)														(ci-)		N/A)
ttem#	BPAU-125 mL Plastic Unpreserved (N/A) (CI-)	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) (C+)	BP3N-250 mL plastic HNO3 (pH < 2)	8P4Z-125 mL Plastic ZN Acetate & NaO+ (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (C	WGFU-Wide-mouthed Glass jar Unpres	AG1U-1 liter Amber Unpreserved (N/A)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/	AG15-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HC! (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mt. 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)	DU IW	BP3R-250 mL Plastic (NH2)2504 (9.3-9.	AG0U-100 mL Amber Unpreserved (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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8							/	7			1		7	/	7									1			7	-
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10						7	1	1							7									1	1			
11								1																1	1	\dashv		
12						7		1			1													1	1			

		Pirri	ljustment Log for Pres	erved Janipies		
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation	Amount of Preservative	Lot #
				adjusted	added	

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.

1	Pace
1	1 400

Effective Date: 05/12/2022

Laboratory receiving			- [Data tab C				
Asheville Edd	en Greenwood Client Name:	Huntersvill	e	Raleigh[_] IVI	echanicsville Atlant		ille
Upon Receipt	Ge Power			Pr	oject #			
Courier:	9 '	JPS DUSPS		Clier	nt	PM: NMG CLIENT: GA-GA P	Due Date: 09	/19/22
Commercial	Pace	Other				CLIENT: GH-GH P	ower	
Custody Seal Present?			□Yes	□No		Date/Initials Person Examin		122 Jm
Packing Material: Thermometer:	Bubble Wrap [Bubble Bags	None	⊘ Oth	er	Biological Ti ☐Yes ☐No	ssue Prozen?	
☐ IR Gun ID:	214 Correction	Type of Ice		Wet □Blu	e [None		
Cooler Temp:	Add/Subtr	Factor: act (°C)	, 	_	Te	emp should be above freezing Samples out of temp criteria.		or process
Cooler Temp Corrected		4.3				has begun	samples on ice, coolir	ig process
USDA Regulated Soil (Did samples originat	N/A, water sample) e in a quarantine zone with	in the United States:	CA, NY,	or SC	Di	id samples originate from a foreig	n source (internationa	llv.
(check maps)? Ye						cluding Hawaii and Puerto Rico)?	□Yes □No	1
Chain of Custody P	racant?	Z Ves	□No	□N/A	1.	Comments/Disc	repancy:	+
Samples Arrived w	AND THE COLUMN TWO IS NOT THE COLUMN TO THE COLUMN TWO IS NOT THE	Yes		□N/A	2.		1 21-1	+
Short Hold Time A		□Yes	ZNO.	□N/A	3.			
Rush Turn Around		□Yes	No	□N/A	4.			
Sufficient Volume		yes	□No	□N/A	5.			
Correct Containers -Pace Container	Used?	Zyes	□No	□N/A □N/A	6.		***************************************	
Containers Intact?	70000	Zyes	□No	□N/A	7.			
	Samples Field Filtered?	□Ves	□No	□N/A	8.			1
Sample Labels Mar		Yes	□No	□N/A	9.			
-Includes Date/	Time/ID/Analysis Matrix:	Wa						
Headspace in VOA	Vials (>5-6mm)?	□Yes	□No	DM/A	10.	(2 g		
Trip Blank Present	?	□Yes	No	Zp/A	11.			
Trip Blank Custody		□Yes	□No	□N/A				
COMMENTS/SAMPLE DISC	CREPANCY			Sax mill		Field Data R	Required? Yes .	No .
CLIENT NOTIFICATION/RES	OLUTION		***************************************	Ł	ot ID of	split containers:	40D4644	
					_	pH Strip Lot	.m 1004611	
Person contacted:	****			Date/Time:				
Project Manager SC	CURF Review:					Date:		
Project Manager SF	RF Review:					Date:		



Effective Date: 05/12/2022

Check mark top half of box if pH and/or dechlorination is verified and vithin the acceptance range for preservation samples. Iceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project #

WO#: 92623533

PM: NMG

Due Date: 09/19/22

CLIENT: GA-GA Power

*Bottom half of box is to list number of bottles

**Check all unpreserved Nitrates for chlorine

!tem#	BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	8P4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z7125 mL Plastic ZN Acetate & NaOH (>9)	BP48-125 mL Plastic NaOH (pH > 12) (CI·)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCI (pH < 2)	AG3U-250 int Amber Unpreserved (N/A) (CI-)	AG15-1 liter Amber H2504 (pH < 2)	AG35-250 mL Amber H2504 (pH < 2)	DG94-250 mt. Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 nit VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG95-40 inL VOA H2504 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BPIN	BP3R-250 mt Plastic (NH2)2SO4 (9 3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (IN/A)
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		pH Ac	ljustment Log for Pres	erved 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.

Qualtrax ID: 69614

Soction A Regulated Climat Information: Company: GA Prover Adjusted Climate Adjusting GA Email To: Interesting GA And Anthrease Adjusting GA Anthrease ATO, 620, 67178 Francisco Con Climater per focus AA2, 661, 78 Bangian foto major for major for emique THE PYGWC-286 THE PYGWC-2	er receipt
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TEMP in C Residual Chlorine (V/Ng Upwales)	_
Procedured on the Comman (YPM)	
Sunday Contact Tymo	
(YAN)	

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

The seconder # State AP-2 Sold Name: Plant Vates AP-2 Sold Name: Plant V	Models Proceedings Process P	The control The control	Semi-page Semi	Section A Required Citent Information: Company: GA Power Address: Atlanta, GA	Section B Required Project information: Report To: SCS Confacts Copy To: Arcadis Contacts	Section C Invoice Information: Attention: South Company Name:	formation: Southern Co. Vane:				Page:	Ö
State Long of the Part Lon	Part Name Part		State Location State Loc		Order #:	Address:			H	Regul	Mory Agency	
Page Policy Page	Parameter Para	Separate Separate	High control of the		Plant Ya	Pace Proje	Manager:			State	a / Location	
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Control Cont	Colored Colo	Sample S	State Country Countr		00 ≥ 00 mm	мо			CT V			
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WG G 8 1 1 1 4 1	WG G G [3] [174]	WG G C C C C C C C C C	WG G 1 1 1 2 3 1 1 1 1 1 1 1 1 1		6 9 [3] 15015	5	3	×			į	
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Email To:	laucoker@southernco.com	*					B.	Pace Quote:													
Phone:	320.6176 Fax		Plant Yate	es AP-2			Pa	Pace Project Manager:	au		Nicole D'Oleo	O'Oleo					S	State / Location	cation		
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yllium jum (I	App IV: Metals 6020B: Antimony (Sb), Arsenic (Ac), Barium (Ba), Beryllium (Bb, Cadmium (Cd), Chromium (Cr), Cobalt (Co), Laad (Pb), Lithium (Li), Molycdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	\																			
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and the state of t	Berylsom (Be), Codmisson (Cd), Circomism (Cr), Cothet (Co), Leand (Pb) Ubstam (L1), Notyhodornum (Rds), Sedersiam (Se) YouTuk: Marcury (Mg)	App N: Mestate 60/2018: Anstroomy (Sto.) Ansenic (A	None Sulling 300.0 (Ct. F. Sullidate)		YAMAY	YAMMA?	YGMC-43	YGWC-42	ACCIDIO PARCE	УБИСЗВ	ACMC-48	MGMC-38A	AMA-CUP-1	YAMW-1	YGWC-238	SAMPLE ID One Character purpor. (A-2. 001) Sample to a most but michael		Due Deta:	470.620.6176 Far		Attente GA	122
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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.

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Email T	o: laucoker@southernco.com	Purchas	e Order	#: 1		1		111-111-11	Pi	ace (Quote					STATE	_	ATTENDED.	-									2		
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	SAMPLE ID One Character per box.	Water DW WT Vater WW P	ees valid code	(G=GRAB		IART		NO !	A) COLLECTION									Metals			20					1	onne (1/18)	**************************************		
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1	YGWC-26S		wo	G			1	-		5 2	2	3			T	T	T	7	×	×	х						рН	l:		
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September 26, 2022

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

RE: Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between September 01, 2022 and September 02, 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

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

Sincerely,

Micole D'oles

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



(770)734-4200



CERTIFICATIONS

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

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 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 Mexico Certification #: PA01457 New York/TNI Certification #: 10888 North Carolina Certification #: 42706 North Dakota Certification #: R-190 Ohio EPA Rad Approval: #41249

Missouri Certification #: 235

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



SAMPLE SUMMARY

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92623534001	YGWC-26S	Water	08/31/22 17:15	09/01/22 09:05
92623534002	YGWC-26I	Water	08/31/22 17:40	09/01/22 09:05
92623534003	AP-2 EB-1	Water	08/31/22 15:35	09/01/22 09:05
92623534004	AP-2 FB-1	Water	08/31/22 16:45	09/01/22 09:05
92623534005	YGWC-27S	Water	09/01/22 10:30	09/02/22 09:15
92623534006	YGWC-27I	Water	09/01/22 09:25	09/02/22 09:15
92623534007	YGWC-28S	Water	09/01/22 17:55	09/02/22 09:15
92623534008	YGWC-28I	Water	09/01/22 11:40	09/02/22 09:15
92623534009	AP-2-DUP-1	Water	09/01/22 00:00	09/02/22 09:15
92623534010	YGWC-29I	Water	09/01/22 14:40	09/02/22 09:15
92623534011	AP-2-EB-2	Water	09/01/22 18:00	09/02/22 09:15
92623534012	AP-2-FB-2	Water	09/01/22 14:50	09/02/22 09:15



SAMPLE ANALYTE COUNT

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92623534001	YGWC-26S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623534002	YGWC-26I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623534003	AP-2 EB-1	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623534004	AP-2 FB-1	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2623534005	YGWC-27S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2623534006	YGWC-27I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2623534007	YGWC-28S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2623534008	YGWC-28I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2623534009	AP-2-DUP-1	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623534010	YGWC-29I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2623534011	AP-2-EB-2	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623534012	AP-2-FB-2	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA





SAMPLE ANALYTE COUNT

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Lab ID Sample ID Method Analysts Reported Laboratory

PASI-PA = Pace Analytical Services - Greensburg



SUMMARY OF DETECTION

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623534001	YGWC-26S					
EPA 9315	Radium-226	0.0752 ± 0.0908 (0.186)	pCi/L		09/26/22 09:16	
EPA 9320	Radium-228	C:89% T:NA 0.527 ± 0.397 (0.779) C:70%	pCi/L		09/21/22 12:21	
Total Radium Calculation	Total Radium	T:87% 0.602 ± 0.488 (0.965)	pCi/L		09/26/22 14:14	
92623534002	YGWC-26I					
EPA 9315	Radium-226	0.179 ± 0.114 (0.171) C:91% T:NA	pCi/L		09/26/22 09:16	
EPA 9320	Radium-228	-0.123 ± 0.466 (1.11) C:78% T:85%	pCi/L		09/21/22 18:29	
Total Radium Calculation	Total Radium	0.179 ± 0.580 (1.28)	pCi/L		09/26/22 14:14	
92623534003	AP-2 EB-1					
EPA 9315	Radium-226	0.0282 ± 0.0830 (0.204) C:84% T:NA	pCi/L		09/26/22 09:16	
EPA 9320	Radium-228	-0.173 ± 0.433 (1.04) C:73% T:94%	pCi/L		09/21/22 18:29	
Total Radium Calculation	Total Radium	0.0282 ± 0.516 (1.24)	pCi/L		09/26/22 14:14	
92623534004	AP-2 FB-1					
EPA 9315	Radium-226	0.0168 ± 0.0669 (0.171)	pCi/L		09/26/22 09:16	
EPA 9320	Radium-228	C:92% T:NA 0.334 ± 0.442 (0.944) C:79% T:92%	pCi/L		09/21/22 18:29	
Total Radium Calculation	Total Radium	0.351 ± 0.509 (1.12)	pCi/L		09/26/22 14:14	

REPORT OF LABORATORY ANALYSIS

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



SUMMARY OF DETECTION

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623534005	YGWC-27S					
EPA 9315	Radium-226	0.147 ± 0.104 (0.169)	pCi/L		09/26/22 09:16	
EPA 9320	Radium-228	C:95% T:NA -0.270 ± 0.461 (1.14) C:70%	pCi/L		09/21/22 18:29	
Total Radium Calculation	Total Radium	T:85% 0.147 ± 0.565 (1.31)	pCi/L		09/26/22 14:14	
92623534006	YGWC-27I					
EPA 9315	Radium-226	2.26 ± 0.471 (0.221)	pCi/L		09/26/22 09:16	
EPA 9320	Radium-228	C:91% T:NA 0.668 ± 0.538 (1.06) C:66% T:89%	pCi/L		09/21/22 19:29	
Total Radium Calculation	Total Radium	$2.93 \pm 1.01 $ (1.28)	pCi/L		09/26/22 14:14	
92623534007	YGWC-28S					
EPA 9315	Radium-226	0.127 ± 0.105 (0.184) C:91% T:NA	pCi/L		09/26/22 09:16	
EPA 9320	Radium-228	-0.0758 ± 0.348 (0.860) C:69% T:91%	pCi/L		09/21/22 19:29	
Total Radium Calculation	Total Radium	0.127 ± 0.453 (1.04)	pCi/L		09/26/22 14:14	
92623534008	YGWC-28I					
EPA 9315	Radium-226	0.310 ± 0.148 (0.176) C:83% T:NA	pCi/L		09/26/22 09:16	
EPA 9320	Radium-228	0.292 ± 0.492 (1.07) C:75% T:90%	pCi/L		09/21/22 19:29	
Total Radium Calculation	Total Radium	0.602 ± 0.640 (1.25)	pCi/L		09/26/22 14:14	



SUMMARY OF DETECTION

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit Analyzed Qualifiers
- Inclined	— Farameters		Units	- Report Limit Analyzed Qualifiers
92623534009	AP-2-DUP-1			
EPA 9315	Radium-226	0.141 ± 0.121	pCi/L	09/26/22 08:38
		(0.228)		
EBA 0000	D " 000	C:92% T:NA	0:4	00/04/00 40 00
EPA 9320	Radium-228	0.269 ± 0.503	pCi/L	09/21/22 19:29
		(1.10)		
		C:73% T:87%		
Total Radium Calculation	Total Radium	0.410 ±	pCi/L	09/26/22 14:14
		0.624	·	
		(1.33)		
92623534010	YGWC-29I			
EPA 9315	Radium-226	0.297 ± 0.147	pCi/L	09/26/22 08:35
		(0.208)		
-D 4 0000	D II 000	C:99% T:NA	0:4	00/04/00 40 00
EPA 9320	Radium-228	0.148 ± 0.511	pCi/L	09/21/22 19:29
		(1.16)		
		C:70% T:85%		
Total Radium Calculation	Total Radium	0.445 ±	pCi/L	09/26/22 14:14
		0.658	F	25,25,22
		(1.37)		
2623534011	AP-2-EB-2			
EPA 9315	Radium-226	0.0594 ± 0.0800	pCi/L	09/26/22 08:40
		(0.169)		
		C:99% T:NA		
EPA 9320	Radium-228	0.774 ± 0.584	pCi/L	09/21/22 19:29
		(1.13)		
		C:71%		
Total Radium Calculation	Total Radium	T:84% 0.833 ±	pCi/L	09/26/22 14:14
		0.664	P	55,25,2
		(1.30)		
2623534012	AP-2-FB-2			
EPA 9315	Radium-226	0.0126 ± 0.0638	pCi/L	09/26/22 08:40
		(0.166)		
		C:94% T:NA		
EPA 9320	Radium-228	0.570 ± 0.529	pCi/L	09/21/22 19:29
		(1.08)		
		C:72%		
Total Radium Calculation	Total Radium	T:95% 0.583 ±	pCi/L	09/26/22 14:14
.o.a. radiam odiodiation	. Juli rudium	0.593	P0"L	00/20/22 17.17
		(1.25)		

REPORT OF LABORATORY ANALYSIS

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Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Sample: YGWC-26S PWS:	Lab ID: 92623 Site ID:	3534001 Collected: 08/31/22 17:15 Sample Type:	Received:	09/01/22 09:05	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0752 ± 0.0908 (0.186) C:89% T:NA	pCi/L	09/26/22 09:10	6 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.527 ± 0.397 (0.779) C:70% T:87%	pCi/L	09/21/22 12:2	1 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.602 ± 0.488 (0.965)	pCi/L	09/26/22 14:14	4 7440-14-4	



Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Sample: YGWC-26I PWS:	Lab ID: 9262 Site ID:	3534002 Collected: 08/31/22 17:40 Sample Type:	Received:	09/01/22 09:05	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.179 ± 0.114 (0.171) C:91% T:NA	pCi/L	09/26/22 09:16	6 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	-0.123 ± 0.466 (1.11) C:78% T:85%	pCi/L	09/21/22 18:29	9 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.179 ± 0.580 (1.28)	pCi/L	09/26/22 14:14	4 7440-14-4	



Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Sample: AP-2 EB-1 PWS:	Lab ID: 9262 Site ID:	3534003 Collected: 08/31/22 15:35 Sample Type:	Received:	09/01/22 09:05	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0282 ± 0.0830 (0.204) C:84% T:NA	pCi/L	09/26/22 09:16	6 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	-0.173 ± 0.433 (1.04) C:73% T:94%	pCi/L	09/21/22 18:29	9 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.0282 ± 0.516 (1.24)	pCi/L	09/26/22 14:14	4 7440-14-4	



Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Sample: AP-2 FB-1 PWS:	Lab ID: 9262 Site ID:	23534004 Collected: 08/31/22 16:45 Sample Type:	Received:	09/01/22 09:05	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0168 ± 0.0669 (0.171) C:92% T:NA	pCi/L	09/26/22 09:16	6 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.334 ± 0.442 (0.944) C:79% T:92%	pCi/L	09/21/22 18:29	9 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.351 ± 0.509 (1.12)	pCi/L	09/26/22 14:14	7440-14-4	



Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Sample: YGWC-27S PWS:	Lab ID: 9262353 4 Site ID:	4005 Collected: 09/01/22 10:30 Sample Type:	Received:	09/02/22 09:15	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.147 ± 0.104 (0.169) C:95% T:NA	pCi/L	09/26/22 09:16	6 13982-63-3	
	Pace Analytical Serv	vices - Greensburg				
Radium-228	EPA 9320	-0.270 ± 0.461 (1.14) C:70% T:85%	pCi/L	09/21/22 18:29	9 15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	0.147 ± 0.565 (1.31)	pCi/L	09/26/22 14:14	7440-14-4	



Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Sample: YGWC-27I PWS:	Lab ID: 9262 Site ID:	3534006 Collected: 09/01/22 09:25 Sample Type:	Received:	09/02/22 09:15	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	2.26 ± 0.471 (0.221) C:91% T:NA	pCi/L	09/26/22 09:10	6 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.668 ± 0.538 (1.06) C:66% T:89%	pCi/L	09/21/22 19:29	9 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	2.93 ± 1.01 (1.28)	pCi/L	09/26/22 14:14	4 7440-14-4	



Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Sample: YGWC-28S PWS:	Lab ID: 9262 Site ID:	3534007 Collected: 09/01/22 17:55 Sample Type:	Received:	09/02/22 09:15	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.127 ± 0.105 (0.184) C:91% T:NA	pCi/L	09/26/22 09:16	3 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	-0.0758 ± 0.348 (0.860) C:69% T:91%	pCi/L	09/21/22 19:29	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.127 ± 0.453 (1.04)	pCi/L	09/26/22 14:14	7440-14-4	



Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Sample: YGWC-28I PWS:	Lab ID: 9262 Site ID:	3534008 Collected: 09/01/22 11:40 Sample Type:	Received:	09/02/22 09:15	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.310 ± 0.148 (0.176) C:83% T:NA	pCi/L	09/26/22 09:16	6 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.292 ± 0.492 (1.07) C:75% T:90%	pCi/L	09/21/22 19:29	9 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	$0.602 \pm 0.640 (1.25)$	pCi/L	09/26/22 14:14	7440-14-4	



Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Sample: AP-2-DUP-1 PWS:	Lab ID: 92623 Site ID:	3534009 Collected: 09/01/22 00:00 Sample Type:	Received:	09/02/22 09:15	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.141 ± 0.121 (0.228) C:92% T:NA	pCi/L	09/26/22 08:38	8 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.269 ± 0.503 (1.10) C:73% T:87%	pCi/L	09/21/22 19:29	9 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.410 ± 0.624 (1.33)	pCi/L	09/26/22 14:14	4 7440-14-4	



Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Sample: YGWC-29I PWS:	Lab ID: 9262 Site ID:	3534010 Collected: 09/01/22 14:40 Sample Type:	Received:	09/02/22 09:15	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.297 ± 0.147 (0.208) C:99% T:NA	pCi/L	09/26/22 08:35	5 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.148 ± 0.511 (1.16) C:70% T:85%	pCi/L	09/21/22 19:29	9 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.445 ± 0.658 (1.37)	pCi/L	09/26/22 14:14	4 7440-14-4	



Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Sample: AP-2-EB-2 PWS:	Lab ID: 92623 Site ID:	3534011 Collected: 09/01/22 18:00 Sample Type:	Received:	09/02/22 09:15	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0594 ± 0.0800 (0.169) C:99% T:NA	pCi/L	09/26/22 08:40	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.774 ± 0.584 (1.13) C:71% T:84%	pCi/L	09/21/22 19:29	9 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.833 ± 0.664 (1.30)	pCi/L	09/26/22 14:14	4 7440-14-4	



Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Sample: AP-2-FB-2 PWS:	Lab ID: 9262 Site ID:	23534012 Collected: 09/01/22 14:50 Sample Type:	Received:	09/02/22 09:15	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0126 ± 0.0638 (0.166) C:94% T:NA	pCi/L	09/26/22 08:40	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.570 ± 0.529 (1.08) C:72% T:95%	pCi/L	09/21/22 19:29	9 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.583 ± 0.593 (1.25)	pCi/L	09/26/22 14:14	7440-14-4	



QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

QC Batch: 530875 Analysis Method: EPA 9320

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

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92623534001, 92623534002, 92623534003, 92623534004, 92623534005, 92623534006, 92623534007,

92623534008, 92623534009, 92623534010, 92623534011, 92623534012

METHOD BLANK: 2574654 Matrix: Water

Associated Lab Samples: 92623534001, 92623534002, 92623534003, 92623534004, 92623534005, 92623534006, 92623534007,

92623534008, 92623534009, 92623534010, 92623534011, 92623534012

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-228
 0.601 ± 0.386 (0.738) C:78% T:91%
 pCi/L
 09/21/22 12:20

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



QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

QC Batch: 530876 Analysis Method: EPA 9315

QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92623534001, 92623534002, 92623534003, 92623534004, 92623534005, 92623534006, 92623534007,

92623534008, 92623534009, 92623534010, 92623534011, 92623534012

METHOD BLANK: 2574656 Matrix: Water

Associated Lab Samples: 92623534001, 92623534002, 92623534003, 92623534004, 92623534005, 92623534006, 92623534007,

92623534008, 92623534009, 92623534010, 92623534011, 92623534012

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-226
 0.0122 ± 0.0618 (0.163) C:93% T:NA
 pCi/L
 09/26/22 09:16

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.



QUALIFIERS

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

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

Date: 09/26/2022 02:21 PM

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Date: 09/26/2022 02:21 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623534001	YGWC-26S	EPA 9315	530876		
92623534002	YGWC-26I	EPA 9315	530876		
92623534003	AP-2 EB-1	EPA 9315	530876		
92623534004	AP-2 FB-1	EPA 9315	530876		
92623534005	YGWC-27S	EPA 9315	530876		
92623534006	YGWC-27I	EPA 9315	530876		
92623534007	YGWC-28S	EPA 9315	530876		
92623534008	YGWC-28I	EPA 9315	530876		
92623534009	AP-2-DUP-1	EPA 9315	530876		
92623534010	YGWC-29I	EPA 9315	530876		
92623534011	AP-2-EB-2	EPA 9315	530876		
92623534012	AP-2-FB-2	EPA 9315	530876		
92623534001	YGWC-26S	EPA 9320	530875		
92623534002	YGWC-26I	EPA 9320	530875		
92623534003	AP-2 EB-1	EPA 9320	530875		
92623534004	AP-2 FB-1	EPA 9320	530875		
92623534005	YGWC-27S	EPA 9320	530875		
92623534006	YGWC-27I	EPA 9320	530875		
92623534007	YGWC-28S	EPA 9320	530875		
92623534008	YGWC-28I	EPA 9320	530875		
92623534009	AP-2-DUP-1	EPA 9320	530875		
92623534010	YGWC-29I	EPA 9320	530875		
92623534011	AP-2-EB-2	EPA 9320	530875		
92623534012	AP-2-FB-2	EPA 9320	530875		
92623534001	YGWC-26S	Total Radium Calculation	535440		
92623534002	YGWC-26I	Total Radium Calculation	535440		
92623534003	AP-2 EB-1	Total Radium Calculation	535440		
92623534004	AP-2 FB-1	Total Radium Calculation	535440		
92623534005	YGWC-27S	Total Radium Calculation	535440		
92623534006	YGWC-27I	Total Radium Calculation	535440		
92623534007	YGWC-28S	Total Radium Calculation	535440		
92623534008	YGWC-28I	Total Radium Calculation	535440		
92623534009	AP-2-DUP-1	Total Radium Calculation	535440		
92623534010	YGWC-29I	Total Radium Calculation	535440		
92623534011	AP-2-EB-2	Total Radium Calculation	535440		
92623534012	AP-2-FB-2	Total Radium Calculation	535440		



Effective Date: 05/12/2022	

	ratory receiving samples:					
		luntersvil	le 🔃	Raleigh	Mechanicsville	
Annual Control of the	Simple Condition Client Name: Upon Receipt			Pr	Wethanicsvilla 9262353	54
	GATON	red			11 H 11 H 11 1 1 1 1 1 1 1 1 1 1 1 1 1	
Cour	ommercial Pace UPS	☐USPS ☐Other		Clie	92623534	
Custo	ody Seal Present? Yes INO Seals In	ntact?	Yes	□No	14 /4 = / 2	1.
					Date/Initials Person Examining Contents	9/1/12
Pack	ing Material: Bubble Wrap Bubb	le Bags	None	Oth	Biological Tissue Frozer	13
Ther	mometer: 230		C-4	ノ _ニ	□Yes □No □N/A	
C1	Correction Factor:	Type of Ice		Wet ∐Biu	None	
	er Temp: Add/Subtract (°C)	6.0	-	•	Temp should be above freezing to 6°C Samples out of temp criteria Samples on	ica cooling process
	er Temp Corrected (°C): A Regulated Soil (N/A, water sample)	->>			has begun	ice, cooling process
D	id samples originate in a quarantine zone within the U check maps)?	nited States:	CA, NY, 6	or SC	Did samples originate from a foreign source (int	
ſ	neck maps; Tres No					□No
1	Chain of Custody Present?	eres	□No		Comments/Discrepancy:	
	Samples Arrived within Hold Time?	(Ares	-	□N/A		
i i	Short Hold Time Analysis (<72 hr.)?		□No	□N/A		
	Rush Turn Around Time Requested?	Yes	☐No ☐No	□N/A		
1	Sufficient Volume?	Yes		□N/A	· · · · · · · · · · · · · · · · · · ·	
Ī	Correct Containers Used?	☑Yes ☑Yes	□No	□N/A	****	
	-Pace Containers Used?	Tes		□n/a □n/a		-
_	Containers Intact?	Hes	_	□N/A		
L	Dissolved analysis: Samples Field Filtered?	□Y95	□No	₽ ₩/A		
	Sample Labels Match COC?	Tres	□no	□N/A		
	-Includes Date/Time/ID/Analysis Matrix:	N				
	Headspace in VOA Vials (>5-6mm)?	□Yes		De la Contra		
	Trip Blank Present?	Yes	□No	DN/A	1.	
	Trip Blank Custody Seals Present?	Yes		N/A		
	MENTS/SAMPLE DISCREPANCY				Field Data Required?	Yes No
				<u>.</u>		`
CLIENT	NOTIFICATION/RESOLUTION			Lo	D of split containers:	
					pH Strip Lot# 10D46	11
-						-
Parco	on contacted:					-
L 6120	n contacted:			Date/Time:		
Pr	oject Manager SCURF Review:				Date:	
Pr	oject Manager SRF Review:					
	THE RESERVE OF THE PARTY OF THE				Date:	



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, 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

WO#: 92623534

PM: NMG

Project

Due Date: 09/23/22

CLIENT: GA-GA Power

	(CI-)				-		(6<) H	ı.	erved	(CI-)		(-10) (_) (cl-)		N/A)
ltem#	BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	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) (C-)	BP3N-250 mL plastic HNO3 (pH < 2)	8P42-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (d-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG15-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 mL VOA Na25203 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG95-40 mL VOA H25O4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	36 W	BP3R-250 mL Plastic (NH2)2504 (9.3-9.	AGOU-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1			1			10								1										20	X			
2		1	1			X												-						2				
3			L			X																		7				
4		l	1			X																		X				
5							/								/										/			
6															/									T				
7			8																	-				7				
8																								V	1			
9																												
10							/							1														
11							/																					
12							/																	1	7			

		pH Aq	ljustment Log for Pres	erved Samples		***************************************
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation	Amount of Preservative	Lot #
				adjusted	added	
				-		
		-	7			

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.

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		polynum (89), Cathaum (Cd), Chromium (Cr), Cotali (Co), Leed (Pb) Liftium (Li), Molybdonum (Ms), Solenism (So) 7040A: Marceny (*Ng)	state 60208: Anti-	latis: Borton accom	ons Seès 300,0 (Cl, F, Sadate)	(B. T. C. C. C. C. C. C. C. C. C. C. C. C. C.	AP-248-2	AP-2-FB-1	AP-2-EB-2	AP-2-EB-1	YGWC-28I	AP-2-DUP-1	YGWC-28I	YGWC-28S	MGWC 27	Secondary.	INC JWEN	SECOMOA	SAMPLE One Character per (A-Z, 0-0) Sample lots must be			Requested Due Date	П	- [Affects GA	18	
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Pace
minute attack

Effective Date: 05/12/2022	

aboratory receiving samples:					/
Asheville Eden Greenwood Hu	entersville		Raleigh		Mechanicsvilla Atlanta Varnamilla
Sample Condition Upon Receipt Client Name: Power			P	rojec	
Coupler: Fed Ex TUPS	USPS		Clie	ent	PM: NMG Due Date: 09/26/22 CLIENT: GA-GA Power
Commercial Pace	Other:			· inc	CLIENI: GH-GH FOWER
Custody Seal Present? Yes No Seals Int	act?	Yes	□No		Date/Initials Person Examining Contents: 9/2/22 Jan
Packing Material: Bubble Wrap Bubble Thermometer:	Bags 🗌	None	Ot	her	Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A
□ IR Gun ID: 214	Type of Ice:		vet ∐BI	ue	None
Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C)	0.0				Temp should be above freezing to 6°C
Cooler Temp Corrected (°C): 4.3 USDA Regulated Soil (N/A, water sample)					Samples out of temp criteria. Samples on ice, cooling brocess has begun
Did samples originate in a quarantine zone within the Uni (check maps)? Yes No	ted States: CA	, NY, o	or SC		Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No
	7				Comments/Discrepancy:
Chain of Custody Present?	Zyes [No	□N/A	1.	
Samples Arrived within Hold Time?	Yes	No	□N/A	2.	
Short Hold Time Analysis (<72 hr.)?	□Yes 🗗	No	□N/A	3.	
Rush Turn Around Time Requested?	□Yes □	No	□N/A	4.	
Sufficient Volume?	Elyes [No	□N/A	5.	
Correct Containers Used? -Pace Containers Used?]No	□N/A	6.	
Containers Intact?	7]No	□N/A □N/A	7.	
Dissolved analysis: Samples Field Filtered?	1944-1957]No	□N/A	8.	
Sample Labels Match COC?]No	□N/A	9.	
-Includes Date/Time/ID/Analysis Matrix:					
Headspace in VOA Vials (>5-6mm)?	□Yes	No	Z#/A	10.	
Trip Blank Present?		No	Zg1/A	11.	
Trip Blank Custody Seals Present?	□Yes □]No	□N/A		
COMMENTS/SAMPLE DISCREPANCY					Field Data Required? ☐Yes ☐No
LIENT NOTIFICATION/RESOLUTION			Ļ	ot ID o	of split containers:
				_	pH Strip Lot# 10D4611
Person contacted:		(Date/Time:		
Project Manager SCURF Review:					Date:
Project Manager SRF Review:		•			Date:

Qualtrax ID: 69614



Effective Date: 05/12/2022

Theck mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples. Iceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project WU

WO#: 92623534

PM: NMG

Due Date: 09/26/22

CLIENT: GA-GA Power

*Bottom half of box is to list number of bottles

**Check all unpreserved Nitrates for chlorine

item!!	BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	8P45-125 ml Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP42725 mt Plastic 2N Acetate & NaOH (>9)	BP48-125 mL Plastic NaOH (pH > 12) (CI-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCI (pH < 2)	AG3U-250 in Amber Unpreserved (N/A) (CI-)	AG15-1 liter Amber H2504 (pH < 2)	AG35-250 mL Amber H2504 (pH < 2)	DG94-250 mt Amber NH4Cl (N/A)(Cl-)	DG9H-40 mt VOA HCI (N/A)	VG9T-40 mL VOA Na252O3 (N/A)	VG9U-10 mt VOA Unpreserved (N/A)	DG9V-40 mL VOA H3FO4 (N/A)	DG95-40 mL VOA H25O4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A lab)	BPIN	BP3R-250 mt Plastic (NH2)2SO4 (9 3-9.7)	AGBU-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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		pH Ad	justment Log for Pres	erved 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.

Qualtrax ID: 69614

Page 2 of 2

		App IV: A Beryllium Lithium (7040A: N	App III N	Anions S		12	1	10	9	8	7	6	5	4	3	2	-	ITEM#			Request	Phone:	Email To:	1	Company:	Required
		App IV: Metals 6020B: Antimory (Sb), Arsenic Beryllium (Bo), Cedmium (Cd), Chromium (Cr) Lithium (Li), Molyodanum (Mo), Selenium (Se) 7040A: Mercury (Hg)	App III Metals: Boron 6020B, Ca 6010D	Anions Sulte 300.0 (CI, F, Sulfate)	ADDITIONAL	AP-2-FB-2	AP-2-FB-1	AP-2-EB-2	AP-2-EB-1	YGWC-291	AP-2-DUP-1	YGWC-28I	YGWC-28S	YGWC-271	YGWC-27S	YGWC-26I	YGWC-26S	SAMPLE ID One Character per box. (A-Z, 0-91, -) Sample ids must be unique			Requested Due Date:	470.620.6176	laucoker@southernco.com	Culaina, Co	1.	5 10 10 10 10 10 10 10 10 10 10 10 10 10
		App IV: Medat 60208: Antimony (Sb), Azseric (As), Berium (Be), Beryllium (Be), Cedmium (Cd), Chromium (Cr), Cobatt (Co), Lead (Pb), Lithium (Li), Molycdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	010D		ADDITIONAL COMMENTS													Dehthog Water Water Water Water Water Water Water Water Product Sudissed Office Other De unitque Tiasos	MATRIX							
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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	Parent		Analysis	5
Sample ID	Lab ID	Matrix	Collection Date	Sample	RAD	MET	GEN CHEM
YGWA-17S	92623226001 92623277001	Water	8/30/2022		Х	Х	Х
YGWA-18S	92623226002 92623277002	Water	8/30/2022		х	Х	Х
YGWA-18I	92623226003 92623277003	Water	8/30/2022		х	Х	Х
GWA-2	92623226004 92623277004	Water	8/30/2022		Х	Х	Х
YGWA-5I	92623226005 92623277005	Water	8/30/2022		х	Х	Х
YGWA-5D	92623226006 92623277006	Water	8/30/2022		Х	Х	Х
YGWA-21I	92623226007 92623277007	Water	8/30/2022		х	Х	Х
YGWA-1D	92623226008 92623277008	Water	8/30/2022		х	Х	Х
YGWA-2I	92623226009 92623277009	Water	8/30/2022		х	Х	Х
YGWA-30I	92623226010 92623277010	Water	8/31/2022		х	Х	Х
YGWA-14S	92623226011 92623277011	Water	8/31/2022		х	Х	Х
YGWA-1L	92623226012 92623277012	Water	8/31/2022		х	Х	Х

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

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

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 <bal<="" and="" td=""><td>"UB" at the RL</td></rl>	"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	e Location Analyte		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
MO/MOD percent recovery 30 % to 74 %	Detect	J
MS/MSD percent recovery <30%	Non-detect	R
Wid/Widb percent recovery <30 %	Detect	J
MS/MSD percent recovery >125%	Non-detect	No Action
Mo/Mob percent recovery >12376	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

Rep	orted			Not Required	
No	Yes	No	Yes		
	AES)				
	Х		Х		
	Х		Х		
		1	1	I	
	Х	Х			
X				Х	
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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	Rep	orted		rmance eptable	Not Required
300.0	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		Х		Х	
Reporting limits (units)		Х		Х	
Blanks	ı	1	I	I	
A. Method Blanks		Х		Х	
B. Equipment/Field Blanks	Х				Х
Laboratory Control Sample (LCS) %R		Х		Х	
Matrix Spike (MS) %R		Х		Х	
Matrix Spike Duplicate (MSD) %R		Х		Х	
MS/MSD Precision (RPD)		Х		Х	
Laboratory Duplicate (RPD)		Х		Х	
Field Duplicate (RPD)	Х				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 Mat		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:

Normalized absolute difference
$$_{MethodBlan \, k} = \frac{ / \, Sample \, - \, Blank \, / }{ \sqrt{ \left(U_{Sample} \, \right)^2 + \left(U_{Blank} \, \right)^2 }}$$

Where:

Usample = 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:

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-2II, 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 $< \pm 3$ 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.

 x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

^{* =} 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

 $u^2(x)$, $u^2(x0)$, $u^2(c)$ = 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:

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

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. <u>If either one</u> 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	Rep	orted		rmance eptable	Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		Х		Х	
Activity, +/- uncertainty, MDC/MDA		Х		Х	
Blanks			1	ı	
A. Method Blanks		Х	Х		
B. Equipment/Field Blanks	Х				Х
Carrier (Surrogate) %R		Х		Х	
Tracer (Surrogate) %R		Х		Х	
Laboratory Control Sample (LCS) %R		Х		Х	
Laboratory Control Sample Duplicate (LCSD) %R		Х		Х	
LCS/LCSD Precision (RPD)		Х		Х	
Matrix Spike (MS) %R	Х				Х
Matrix Spike Duplicate (MSD) %R	Х				Х
MS/MSD Precision (RPD)	Х				Х
Laboratory Duplicate (RPD)		X		Х	
Field Duplicate (RPD)	X				X

Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE:

DATE: November 8, 2022

Sknrifu Oslinger

PEER REVIEW: Dennis Capria

DATE: November 9, 2022

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11	YGWA-30I		-	G			-			5	2	_	3	1	Н	4	4	-	< X	-	×	+	++	+	+	-	4	pH:			
12	YGWA-14S		WG	G			-	-	<u></u>	5	2	-	3	_	Ш	\perp		L,	< X	X	X	_			ш			pH:			
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Phone:	470.620.6176 Fax	Project Nam	e: F	Plant Yate	s Pooled	Upgra	dient		Pac	e Pro	ject M	anag	er:	Nic	ole D	O'Ol€	0				100		Solder		S1	tate / Lo	cation		200	
Reques	ted Due Date:	Project Num	ber:						Pac	e Pro	file#:	1	0840													Georg	da			
									_	_						_	-	_	Requ	eate	Anah	sis Fi	Itarec	(VM)	$\overline{}$				
	MATTRE	CODE	to left)	(dWb)	COLL	ECTED		7			F	Pres	ervat	ives			N													
ITEM#	SAMPLE ID Softman One Character per box. (A-Z, 0-9 /, -) Sample Ids must be unique	Water DW WT Weter WW p	x CODE (see valid cod	GRAB C	ART	DATE	ND	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HACI	NaOH	Na2S2O3	Methanol	- 12	Analyses lest	The source	. 00	RAD 9315/9320	And 1711 (months on the					Beardual Chinina (VA)		30	276	,
1	YGWA-47		wg		1	-	-		5	2	_	3	1		T	7	7	()	(x	-		+	П	П	1	П	pH:			
2	GWA-2		wg	G 0/30	1005	-	1 -		5	2		3	+		П	ヿ	7	K)	(x	×	7	7	П	T	\top	П		5.	39	
3	YGWA-4I		wg			-	-		5	2		3	1	Т	\Box	7	7	()	(x	×		\top	П	T	\top	П	pH:			
4	YGWA-5I		wg	G			-		5	2	1	3	\top	1	\Box	٦	7	()	(X	×	\top	T	П	T	\top	П	pH:			
5	YGWA-5D		wg	G		-	-		5	2		3	\top		\Box	1	7	,	(x	1	\neg	\top	П	T		П	pH:			***************************************
6	YGWA-17S	***************************************	wg	G		-	-		5	2		3	1	Т	T	1	7	()	(x	×	\neg	T	П	\Box	1	П	pH:	_		
7	YGWA-18S	and the second	WG	G			-		5	2		3					,	()	(x	x			П	T		П	pH:			
8	YGWA-18I		wg	G		-	-		5	2		3	1		\neg	٦	7	()	(x	×	T	T	П		Т	П	pH:			
9	YGWA-20S	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	wg	G		-	-		5	2	:	3	1			٦	7	()	(x	х		Т	П			П	pH:			
10	YGWA-21I		WG	G		_	-	-	5	2	:	3	T		T	٦	,	,	×	х		Τ	П		Т	П	pH:			
11	YGWA-301		wg	G		-	-	-	5	2	-	3	\top			7	,	()	×	х		Т	П			П	pH:			
12	YGWA-14S		WG	G		-	-		5	2	-	3				7	7	,	×	×	T		П			П	pH:			***************************************
	ADDITIONAL COMMENTS	F	ELINQU	ISHED BY /	AFFILIAT	ION	DA	TE	F	TIME			A	CCE	PTED	BY/	AFFI	LIAT	ION			DAT	Ε	71	ME		SAM	PLE C	ONDITIO	NS
Anione S	Surbe 300.0 (Cl. F. Sulfate)	-		12		/Arcadis	8/9	1/22	8	(00	2	2	n	Pr	E	بر	/	A	100	de	, 8	1/31	/2	0	800					
	letals: Boron 6020B, Ca 6010D:	-	11	51	سو		//	1	1	2.	_	17	-	1	1/1	مهر ا			Pal		8	10,1	,	100						Î
	020B: Zn, Ag, Ni, V	- 17	210	an.	- 5	105	X131	125	10	00	7	Ξ	27	20		ماحر	7	A.	27	~		7	-	, ,,	_	├-	+-	-	-	-
Beryllium Lithum (Metals 6020B: Antimony (Sb.), Arsenic (As), Barium (Ba n (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lei Li), Molybdenum (Mo), Selenium (Sa) Mercury (Hg)	d (Pb).	90 1	Vallar	~//	aa	8/31/	12	//	5.5		Ū		0	_	1	4/	1	1	•	25	3//2	22	US	3					
	1.3.7.7				SAMPLE	RNAME	AND SIGN	IATURE	Blag.	1				13					par P	Wal			and		16		5	\neg		
					PR	INT Nam	ne of SAM	PLER:)	212	1	,	3	a	n	15	ó	50	1						D III	o peni		K 4 Ž	2002
			¥		SIG	GNATUR	E of SAM	PLER:	<		55	>	-	or desired to the		~	Ť		TE SI		5	3/	30	12	2	TEMP	Race	(X/N)	Custod Sealed Cooler (Y/N)	Sampl Infact (Y/N)

Section Require Compa Address	ed Client Information: Ring: GA Power Re		SCS	Contacts					Atte	tion C lice In ntion:	forma S	outhe	em C	òo.]					Page		1	Of	
Email T		urchase Order		is Conta	CIS .				Add	ress:		_				_									Rec	ndator	y Apr	tocy	osejajani	1
Phone:	470.620.6176 Fax Pr	oject Name: oject Number		lant Yate	s Pooled	d Upgrad	tient		Pac	Proje	ct Ma		840	Nicc	ole D	'Ole	0				E					Geor		on		
	MATRIX Diriking Water Water Water Water Water Water Water Water Water Product SAMPLE ID	DW WT WW P	(See valid codes to left)	ST	GOLL	ECTED	ND ND	AT COLLECTION		T	P	reser	vativ	/es			U/L	I	Requ	ueste	d Ana	1	Filter	ed(Y	N)		9 (Y/N)			
ITEM #	One Character per box. Whe Air (A-Z, 0-91,-) Other Tessue	OL WP AR OT TS	MATRIX CODE (8		TIME	DATE	TIME	SAMPLE TEMP AT	# OF CONTAINERS	Unpreserved	HN03	HCI	NaOH	Na2S203	Methanol	Coner	Ann IRTV Mataic	CI F SOA	TDS (2540C)	RAD 9315/9320		App I / II (gpysum only)					Residual Chlorin			
1	YGWA-47		WG G	31			-		5	2	3		П				Ţ		(X	×			I			П	E	oH:		
2	GWA-2		WG G			-	-		5	2	3		Ш				>	()	×	×		x				Ш	E	H:		
3	YGWA-4I		NG G		R	-			5	2	3						Ľ	()	×	×						Ш	E	H:		
4	YGWA-5I		wg G	2/30/20	1052	-	-		5	2	3						,	()	×	х							E	h: 5	00	
5	YGWA-5D		NG G	1 30/2	1205	-	-		5	2	3						,	< >	×		П						F	н: 7.	40	
6	YGWA-17S	- I	NG G			-	-		5	2	3			T	Т		7	()	×	×	П			T		П		H:		
7	YGWA-18S		NG G			-			5	2	3					1	7	٠,	×	×			T			\Box	p	H:		
8	YGWA-18I	-	NG G			-	-		5	2	3		П	T	T	7	$\overline{}$	۲,	×	х	T	T				П		H:		
9	YGWA-20S		VG G			-			5	2	3		П	T	T	٦	×	()	×	х	П	7		T		П		H:		
10	YGWA-21I		NG G	8/3/2	1430	-			5	2	3	Т	П	7	\top	7	×	()	×	×	\Box	1	\top	T	\Box	П	-		.58	
11	YGWA-30I		vg g	_	11 12	-	-		5	2	3	П	П	寸	\top	7	×	,	×	х	\top	T	T	T	\vdash	П	-	H:		
12	YGWA-14S	,	vg g						5	2	3	\vdash	\Box	1	1	1	×	()	×	×	\top	ヿ	\top	T	\vdash	П	- 11	H:		
	ADDITIONAL COMMENTS	REL	_	SHED BY /	AFFILIAT	ION	DATE	E	1	IME			AC	CEP	TED	BY /	AFFII	LIAT	ION			DA	TE		TIME				ONDITIO	18
App III N	Suite 300.0 (Cl. F, Suifate) Antais: Boron 6020B, Ca 6010D;	Ryan	R.	Mion	- h	Arcadis	8/3//2			03	K	yn.	1	1:11.	4-7		11.	re M	1		- 1	8/8	1/2	_	115		+		. 200	
App IV: I Beryllium Lithium (5020B: Zn, Ag, Ni, V Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), In (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb) (Li), Molybdenum (Mo), Selenium (Se) Mercury (Hg)).		- / - / / / / / / / / / / / -	1.//		, , ,					/		<i>)</i>		_	-	1				1	1							
					SAMPLE	RNAME	AND SIGNA	TURE										7 1				A A						u		
				ri l	PF	RINT Name	e of SAMPI	LER:	N	Tar	·K	0	100	-51	<u></u>											J.	1	pen	¥ 4 8	seles
					SI	GNATURE	of SAMPL	ER: 2	1	12	À	1	بر	-				DA	TE SI	gned	8	13	12	-1		TEMP	,	Received Ice (Y/N)	Sealed Cooler (Y/N)	Samp Intact (Y/N)

Section		Section B							97.50	tion	200																1		.)	
_	ed Client Information:	Required Pr				وريية			-	-	Inform	_		~		-									Pa	ge:		0	-	
Compa Address		Report To: Copy To:		Contacts dis Conta					_	ention	y Name		nem (JO.		-			-	-										
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Email T	o: aucoker@southernco.com	Purchase Or	for #						_	e Qu	_								-	-				-	Kelpar	anny r	Quity			
Phone:		Project Name	NAME OF TAXABLE PARTY.	lant Yate	c Poole	Llogra	tient				ject M	nan	or:	Nice	ole D	مار)	^		_	-					Ctat	Loc	etton	MINERS DIE	0-50/0	
	sted Due Date:	Project Numi		iaiii Tale	3 1 00100	Opgrad	Jione		_		file #:	-	0840	1410	OIC D	010				-						Georgi				
Mednes	Sted Dite Date.	I rioject Nomi	rei .		_				1 00	0110	Allio IF.		0040			_	-	-	2000	ested	Anabe	ie FIN	bred	CYMI	7.5	Jeorgi			lag to the	2000
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	MATRIX	CODE	as to left)	<u> </u>	COLL	ECTED				H	F	rese	ervati	ves	Т	N/A		+	┡	\vdash	+	\dashv	4	+	H	-				
ITEM#	SAMPLE ID One Character per box. (A-Z, 0-9 1, -) Sample Ids must be unique Other Character per box. Off Within Air. These	WT	g c	ST ST	ART	DATE	ND TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HCI	NaOH	Na2S2O3	Methanol	Analyses Test	5	CI, F, SO4	TDS (2540C)	RAD 9315/9320	App (/ II (gpysum only)			100,000		Residual Chtorine (Y/N)				
1	YGWA-39	100	WG (3			-		5	2		1	П	П	\neg	T	×	×	×	Х	1	П		T	П	T	pH:			
2	YGWA-40		wg c	3		-	- 1		5	2			П	П		1	х	×	×	х					Ħ		pH:			
3	YGWA-1I		wg c	3			- 1		5	2	-	1	\top	П	\top	1	×	×	х	X	\top	П			\top	7	pH:			
4	YGWA-1D		wd o	18/3N	1350	-			5	2	1	+	\top	\Box	+	1	×	x	х	x	\top	\Box	\dashv	1	\top	7	-	7.2		\neg
5	YGWA-1D YGWA-2I		wg c	19110	1000	-	-		-	2	1	-	\dagger	Ħ	\top	7	x	×	х	×	1	\Box	+	1	tt	1	pH:	7.0	4	
6	YGWA-3I		WG C	3	_	-	-		5	2	- 3	T	П	П	Т	1	×	×	х	х		П			П		pH:			
7	YGWA-3D		wg c	3		-			5	2	1	+	П	\exists	\top	1	×	×	x	×	\top	\Box	\top				pH:	-	F-UIII-IA MILIO	
8	TOWASE		+				-	\neg	\exists		\top	T	Ħ	\exists	\top	7		T	П		\top	H	\neg	1			pH:			\neg
9			H			-	-		\exists		1	t	Ħ	П	7	1		T	П	\neg	T	П	1		\Box	1	pH:			
10			\vdash	1			-		\neg	П		T				1						П	T		\Box		pH:			
11			\sqcap				-				T	T	\Box			1		T	П	\top	T	\Box	T	-			Marine			
12		20159-14000000000000000000000000000000000000		1		***			\dashv			T	T		\top	1		T	\Box		1	Ħ	\top			1				
	ADDITIONAL COMMENTS	R	ELINQUI	SHED BY /	AFFILIAT	ION	DAT	E	7	TIME			A	CCEP	TED	3Y / /	FFIL	LATR	ON			DATE		TIM	E		SAMPLE	CONDIT	TONS	
Anions 5	Suite 300.0 (Cl, F, Sulfate)	(4	heli	(Cas	Son	/Arcadis	7131	/2.	8	حو	1	7	K	1	E	<i>y</i> -	=	>	Au	5	8	1/2/	24	800	>				T	
App III M	Metals: Boron 6020B, Ca 6010D; 5020B; Zn, Ag, Ni, V	2	14/		5	July .	8/3/	/20	fo	50	3	Z,	an	N	11	Vin	~	Ź	Pad	8	8	31/0	2	1000	3					
Beryllium Lithium (Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), n (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Li), Molybdenum (Mo), Selenium (Se) Mercury (Hg)		an V	Villia-	-1 /Pi	٧٤	8/41/2	2	11	153		-	7	0	2/	W		7	3		8/	131/2	2/	18	5					
					SAMPLE	RNAME	AND SIGNA	ATURE			112																8			
	6				PF	INT Nam	o of SAMP	LER:	11	C	911	-					- Andrew						(100)			P	eived (Custody Sealed Cooler	pies	(Y/N)
					SI	GNATUR	e of SAMP	LER:	N	' <	2	-	1150.0	0.02				DĄŢ	E Sig	ned:						TEMP	R S X	Seale	Sam	Nac Nac

Section	A no	Sec	tion B								ction													1		_					
Requi	red Client Information:		ruired Projec	t Infor	mation:							Infon	matte													١.		1		2	
Compa	, crit one		THE RESERVED FOR		ontacts					-	entio	_	_	hem	Co		_			_						Pa	ge:	i	Of	0	`
Addres	ss: Atlanta, GA	Cop			s Conta					_		ny Nar		, iciti			-		_		-								1		
F	·			- 3						Ad	dress	5:										Septiminal Control	3135	401500	100 PM	Regula	tory A	OBALY	1000 LONG	1 100	months of mile
Email 1	in a demonstration in the		chase Order	22	1					Pa	ce Q	uole:		7/1/2		12.00											-	10.42	_	-	
_	: 470.620.6176 Fa		ect Name:	Pla	ant Yate	s Poole	d Upgra	dient				roject	_			ole (O'OI	e0				ile sy	word)			State	Loc	etten	and President	Silitin	Metan
roque	Side Dee Date.	Pro	ect Number:				-			Pa	ce Pr	ofile#	: 1	0840			-215									C	eorgi	3			
T	1				T					-	_	_					_			Requ	ested	Anah	ets El	proc	(AW)				ON THE		國的影
		MATRIX	CODE	C=COMP)		COLL	ECTED		,				Pres	ervat	ives			X.								$\ \ $					
ITEM #	SAMPLE ID One Character per box (A-Z, 0-91, -) Sample Ida must be uni	T. Whose	ww 1	(G=GRAB		ART	E	ND	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	04	33	H	Na2S2O3	Methanol		Analyses Test	App mily Metals	TDS (2540C)	RAD 9315/9320	Apo I / II (apvsum only)					dual Chlorine (Y/N)				
<u>E</u>	YGWA-47			WWS G	DATE	TIME	DATE	TIME	3AM	-	-		HIVO3	N O	Na2	Meth	ŧ	_	_	_	-	- Pe	Ш	Ц		Щ	Residual		\perp		
2	č.			+	-	-	-	-	-	5	-	-	3	+	Н	Н	4	-	× /	-	×	\perp	\perp	Ш	_	₩	4	pH:			
Janes Sept.	GWA-2			G G			-	-	ļ	5	2	Ш	3	┸	Ш				x >	×	X	×		Ш				pH:			
3	YGWA-4I		w	GG	i			-		5	2		3				Į		x >	×	×			1		П		pH:			
4	YGWA-5I		w	GG			-	-		5	2	П	3	\top	П	П	\neg		x >	×	x	Т	П	П	\neg	П	7	pH:	\top		
5	YGWA-5D		w	G G	1		-	-	1	5	2	П	3	1	П	\vdash	7		x >	×	1	\top	\forall	H	\top	\vdash	1		+	-	_
6	YGWA-17S		w	G G	1	1	-	_	1	5	2	Н	3	+	Н	\dashv	┪	-	x >	+	×	+	Н	Н	+	\vdash	-	pH:	+-	ţ.	-
7	YGWA-18S			d d	-		_		+	5	-	↤	3	╁	Н	\dashv	\dashv	-	x >	+	x	+	Н	Н	-	₩	-1	pH:	+	_	\dashv
8	YGWA-18I			GG		-			+	5	2	\vdash	3	╁	Н	+	-1	-	_	+	-	+	Н	Н	+	₩	-	pH:	+		
9	YGWA-20S			G G			_	_	-	5	2	-	3	+	Н	+	-	-	x x	+	X	╀	Н	Н	+	₩	-	pH:	+	_	
10	YGWA-21I			GG		-			-	-	-	\vdash	-	+	Н	+	-1	\vdash	X X	-	×	+	Н	Н		₩	4	pH:	+		
Carried Street, St.	2			_	7/1-1	WAS	-		-	5	2	\vdash	3	+	Н	4	4	\vdash	X X	+	×	+	+	Н		₩	4	pH:			
11	YGWA-30I			G G	8/3)	Y130	-	-	_	5	2	Ш	3		Ш		_	Ŀ	X X	×	X	┸	Ш	Ш		Ш		pH: S.	<u> </u>		
12	YGWA-14S		w	GG	4131	1415	-	-		5	2		3		Ш];	x x	×	x						1	pH: S	15		- 1
	ADDITIONAL COM	MENTS	RELIN	lquisi	HED BY /	AFFILIAT	NOI	D,	ATE		TIME			A	CCE	PTED	BY,	AFF	LIAT	ION			DAT		TIME	E		SAMPLE C	оприн	ONS	
Anions	Suite 300.0 (CI, F, Sulfate)		hh	al:1	(6	rison	/Arcadis	9/11	22	10	80	,	2	//	19.	11	Z	9	- 4	25		19	1.1	,,	800	$\overline{}$				Т	
	Metals: Boron 6020B, Ca 6010D; 6020B; Zn, Ag, Ni, V		2/1	1	le	رمر	Au			Ĭ	<u></u>		ly	an	W	11:0	·~	-/	1	Paci	_ _	19	7 4	22	090					1	
Berylliun Lithium	Metals 6020B: Antimony (Sb), Ars m (Be), Cadmium (Cd), Chromium (Li), Molybdenum (Mo), Selenium Mercury (Hg)	(Cr), Cobalt (Co), Lead (Pb).	Ryan	h/i	llian	Pac	:4	91/	2.7	10	753	3	<i>T</i>			-						ľ				1	-				
			- mwy mromi			SAMPLE	R NAME	AND SIG	NATURE		Sid.	USB RI	Exter		1	10 70					1020		ing pa		and the				+	+	
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										16	9	11	UM	J: 2													TEMP in C	Received CB (Y/N)	Custody teated Cooler	oles	Y/N)
						SI	GNATUR	E of SAM	PLER:	-	2/	1	100					1	DA	TE SI	medo	11	1			1	TEN.	% e %	Suc des		å ₹

Section		Section B								Sec	ction	C												1		Г		2	-		~
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Address		Report To:			ontacts					_	entio	_		hem (Co.							1		1							,
Address	s: Atlanta, GA	Copy To:	Arc	adis	Conta	cts				_	_	ny Nar	ne:			-						_		4			2111	-			-
Email T	o: laucoker@southernco.com	Purchase Ord	or tt.							_	dress	uote:											P Additi	1		Reg	datory	Agency	- 15 M		5145.05
Phone:	470.620.6176 Fax	Project Name	O π.	Plan	nt Vate	s Poole	i I Ingra	dient	-	_	_	oject I	lange	er	Nic	ole [חימו	00	Here			disci	nicoverit.	_		n de de colonia e a	ate / Lo		chinology sky.	PARTICIPATION AND IN	COLUMN STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET,
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Required Client Information:		Required Proj-	_	AND DESCRIPTION OF THE PERSON NAMED IN					-	-	-	mation	1:								_		1		P	age :		Of		┙
Company: GA Power		Report To:	_	S Conta					_	ention		Sout	hem	Co.						1020%	1		1		-		•	1		1
Address: Atlanta, GA		Copy To:	Arc	adis Cor	ntacts				-	_	ny Na	me:									_	-	_							
Email To: laucoker@souther		Purchase Orde	. 44.							dress	-	_									His	(C. 1995)	1000	2013	Rose	lating y	Agency	Adjusted to	Mary Mile	1500
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Addres	s: Atlanta, GA Co	py To: A	rcad	is Contac	cts				Con	npany	Nam	6:						_	****		1		l							
Email T	o: laucoker@southernco.com Pu			-					-	ress:											ERROR	PER S			Reg	ulatory	Age	NCY	HISTORY	Modern Co.
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Anions	Suite 300.0 (Cl. F, Sulfate)			Jes	246	41	Jan	/Arcadis	9/11	172	02	90		5	1/1	14	11	D	ک	14	20		94	1/21	(0)	00	_		4		
	Metals: Boron 6020B, Ca 60 6020B: Zn, Ag, Ni, V	10D;	-	MI	ul	15	-	the s	9/11	22			1	4	ar	W	11/1	q-	~!	/P	600		9/1	22	09	105					
App IV: Berylliu Lithium	Metals 60208: Antimony (SI m (Be), Cadmium (Cd), Chro (Li), Molybdenum (Mo), Sek Mercury (Hg)	mium (Cr), Cobalt (Co	m (Ba), o), Lead (Pb),	Ryan	h	lill-n	- JP	ru	9/1/	22	10	755	5																\parallel		
LIONAL		the section of the se					SAMPLE	RNAME	AND SIG	NATURE	Paris le	35-2	Territ		Late	lebe	MEG			11.17	15/15				State	A delign		1_	11		
							, Pi	RINT Man	e of SAM	PLERO	2					HECCH								Т			in C	no pan	À.	_	les
							1	GNATUE	E of SAM	PLER:		2							1	DATE:	Signe	± 9/	111	22	_		TEMPin	Received	Seale	3 S	Samples Intact (Y/N)

Section Require	A CONTRACTOR OF THE CONTRACTOR	Section B Required Proje	ct Info	rmation:					Sect		forma	atton:											Γ	age :	<u> </u>	Of	1
Compar			www.warm	Contacts	***************************************	***************************************			-	tion:	-		m Co						\neg		1			aye.		101	
Address	Atlanta, GA	_		is Conta	cts				_		Name		,,,,, oc						\neg		1					1	
									Addr						-			_	- 18	No restrict		arverer	Rem	distory .	Annery (e drondelessia	000000000000000000000000000000000000000
Email To	: laucoker@southernco.com	Purchase Order	#:						Pace	-	te:				-				-		1					1	الرجيب والمستوالي والمال
Phone:	470.620.6176 Fax F	Project Name:	PI	ant Yate:	s Pooled	Upgrad	lient	-	Pace	Proj	ect Ma	nager	: 1	licole	D'O	leo		-		2,51540	0.0040	ALIDOUS P	St	te / Loc	ation	4 Haberett	0.0000000000000000000000000000000000000
Reques	ted Due Date:	Project Number:	_	1					Pace				340		1110	-				200	1			Georg	THE RESERVE OF THE PERSON NAMED IN	T	
								-					-			ACCURATE VALUE OF THE PARTY OF	(Alent	Reque	sted /	vialys!	s Filter	ed (Y/I	4)			400000	
			e 6		COLL	ECTED			П		Р	reser	vative	s		X/N		Π		Ť	T						
ITEM #	SAMPLE ID SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample Ida must be unique Other Tissue	WT WW P SL OL WP	MATRIX CODE (see vaid codes to left) SAMPLE TYPE (G=GRAB C=COMP)		ART		ND	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	HZSO4	HCI	NaOH	Methanol	Other	Analyses Test	CI. F. SO4	TDS (2540C)	RAD 9315/9320	App I / II (gpysum only)				Residual Chlorine (Y/N)			
auto-regula			_	-	TIME	DATE	TIME	co.	-	-	_	-	2 2		۳	_		+	_	- ₹	#	+				 	
1_	YGWA-39		NG G	10/0/11		•	-		+	2	3	-	Щ	4	_	I ⊩	x x	-	×	-	ш	+	-	Н		130	
2	YGWA-40		₩G G	8/31/21	1440	-	-		5	2	3				1		x x	X	X		Ш				pH: L	53	
3	YGWA-1I		WG G			-	-		5	2	3	· 🗆	П		Г		x x	x	x		П	\Box			pH:		
4	YGWA-1D		NG G			_	_		5	2	3		\vdash	\top	\top	lt	x x	x	x	_	+	\top	\neg			1	
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5_	YGWA-2I		NG G	+		-	-		5	2	3	1	1	_	_	۱ ⊩	x x	X	X	_	ш	\perp		Н	pH:	-	
6	YGWA-3I		NG G			-	-		5	2	3	1					× ×	x	X		Ш				pH:		
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12			_						\vdash	+	+	+	\vdash	+	1	lt	+	\vdash	\dashv	+	H		\vdash	П			
	ADDITIONAL COMMENTS	REL	INQUIS	HED BY	AFFILIAT		DA	TÉ		IME			ACC	EPTI	ED BY	/ AFF	ILIAT	ON			DATE		TIME		SAMPLE	фирипо	NS
Anions S	Suite 300.0 (CI, F. Sulfate)	M	12-	M	9	/Arcadis	811	2ر				Rya	in	Wi	llia		Ĵŧ	PACC	0	9/1	22	0	905				
	Aetals: Boron 6020B, Ca 6010D; 5020B; Zn, Ag, Ni, V	Lya	n	Jell. M	-1/9	Act	9/1/	22	lt	63	5	/															
App IV: Beryllium Lithium (7040A:	Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), n (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (F (Li), Molybdenum (Mo), Selenium (Se) Mercury (Hg)	Pb).							_		+				-						-	+			-		
C. C. Harrison	Control Manager Control Contro				SAMPLE	RNAME	AND SIGI	VATURE	2013		20	light.				(CEN		Sink		egié a			ATS/ITO		1_	1	
					PI	RINT Nam	e of SAM	PLER:	191001950	Au L	2	11	res!	- -			DA	TE SIQ	ned:	ร/เ	127	L		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)



SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier			
92623226	GWA-2	SW846 6020B	Vanadium	0.010	mgL	UB	Blank contamination			
	YGWA-5I	SW846 6010D	Calcium	2.5	mgL	J	MS %R < LCL			
	YGWA-5D	SW846 6010D	Calcium	24.8	mgL	J	MS %R < LCL			
	YGWA-21I	SW846 6010D	Calcium	7.3	mgL	J	MS %R < LCL			
	YGWA-1D	SW846 6010D	Calcium	14.9	mgL	J	MS %R < LCL			
	YGWA-2I SW846 6010D		Calcium	25.4	mgL	J	MS %R < LCL			
	YGWA-30I SW846 6010D Ca		Calcium	1.3	mgL	J	MS %R < LCL			
	YGWA-14S	SW846 6010D	Calcium	1.3	mgL	J	MS %R < LCL			
	YGWA-1L SW846 6010D YGWA-47 SW846 6010D		Calcium	1.9	mgL	J	MS %R < LCL			
			Calcium	9.6	mgL	J	MS %R < LCL			
	YGWA-4I	SW846 6010D	Calcium	8.9	mgL	J	MS %R < LCL			
	YGWA-20S	SW846 6010D	Calcium	2.4	mgL	J	MS %R < LCL			
	YGWA-3I	SW846 6010D	Calcium	23.5	mgL	J	MS %R < LCL			
	YGWA-3D	SW846 6010D	Calcium	28.7	mgL	J	MS %R < LCL			
	YGWA-39	SW846 6010D	Calcium	16.3	mgL	J	MS %R < LCL			
	YGWA-40	SW846 6010D	Calcium	6.2	mgL	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,

Micole D'oleo

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



CERTIFICATIONS

Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006 South Carolina Certification #: 99006001

9800 Kincey Ave. Ste 100, Huntersville, NC 28078 South Carolina Drinking Water Cert. #: 99006003

North Carolina Drinking Water Certification #: 37706 Florida/NELAP Certification #: E87627 North Carolina Field Services Certification #: 5342 Kentucky UST Certification #: 84 North Carolina Wastewater Certification #: 12 Louisiana DoH Drinking Water #: LA029 Virginia/VELAP Certification #: 460221

South Carolina Laboratory ID: 99006

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804 South Carolina Laboratory ID: 99030 Florida/NELAP Certification #: E87648 South Carolina Certification #: 99030001 North Carolina Drinking Water Certification #: 37712 Virginia/VELAP Certification #: 460222

North Carolina Wastewater Certification #: 40

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092 North Carolina Certification #: 381 Florida DOH Certification #: E87315 South Carolina Certification #: 98011001

Georgia DW Inorganics Certification #: 812

REPORT OF LABORATORY ANALYSIS



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 09:0

REPORT OF LABORATORY ANALYSIS



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	<u> </u>	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
		EPA 7470A		1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226009	YGWA-2I	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
92623226010	YGWA-30I	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
92623226011	YGWA-14S	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
92623226013	YGWA-47	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
92623226014	YGWA-4I	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
92623226015	YGWA-20S	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

	od Analysts	Reported
EPA 300.0 Rev		3
92623226016 YGWA-3I EPA 60 ⁻	IOD KH	1
EPA 602	20B CW1	13
EPA 741	70A VB	1
SM 2540C	:-2015 BTS	1
EPA 300.0 Rev	/ 2.1 1993 CDC	3
92623226017 YGWA-3D EPA 60 ⁻	IOD KH	1
EPA 602	20B CW1	13
EPA 74	70A VB	1
SM 2540C	-2015 BTS	1
EPA 300.0 Rev	/ 2.1 1993 CDC	3
92623226018 YGWA-39 EPA 60 ⁻	IOD KH	1
EPA 602	20B CW1	13
EPA 747	70A VB	1
SM 2540C	-2015 BTS	1
EPA 300.0 Rev	/ 2.1 1993 CDC	3
92623226019 YGWA-40 EPA 60 ⁻¹	IOD KH	1
EPA 602	20B CW1	13
EPA 747	70A 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



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Client Sample ID					
Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
YGWA-17S					
Performed by	Customer			08/31/22 15:58	
pH	4.68	Std. Units		08/31/22 15:58	
Calcium	3.0	mg/L	1.0	09/12/22 21:17	
Barium	0.017	mg/L	0.0050	09/13/22 20:15	
Beryllium	0.00010J	mg/L	0.00050	09/13/22 20:15	
Boron	0.013J	-	0.040	09/13/22 20:15	
Total Dissolved Solids	81.0	-	25.0	09/02/22 11:11	
Chloride	12.0		1.0	09/08/22 01:38	
Sulfate	4.7	mg/L	1.0	09/08/22 01:38	
YGWA-18S					
Performed by	Customer			08/31/22 15:58	
pH	5.18	Std. Units		08/31/22 15:58	
Calcium	0.77J	mg/L	1.0	09/12/22 21:36	
Barium	0.012	mg/L	0.0050	09/16/22 15:01	
Beryllium	0.000082J	-	0.00050	09/15/22 20:19	
	0.014J	-	0.040	09/15/22 20:19	
	0.0015J	-	0.0050		
		-			
		•			
Sulfate	1.3	mg/L	1.0	09/08/22 01:52	
YGWA-18I					
Performed by	Customer			08/31/22 15:59	
pH	5.82	Std. Units		08/31/22 15:59	
Calcium	5.7	mg/L	1.0	09/12/22 21:41	
Barium	0.017	-	0.0050	09/15/22 20:43	
Lithium	0.0036J	-	0.030	09/15/22 20:43	
		-			
		-			
Sulfate	0.78J	mg/L	1.0	09/08/22 02:06	
GWA-2					
Performed by	Customer			08/31/22 15:59	
рH	5.39	Std. Units		08/31/22 15:59	
Calcium	23.5		1.0		
Arsenic					
Barium	0.031	mg/L			
		•			
		•			
		•			
		-			В
					_
		•			
Chloride	6.3	mg/L		09/08/22 02:48	
		HIU/L	1.0	UJ/UU/LL UL.40	
Fluoride	0.086J	mg/L		09/08/22 02:48	
	Parameters YGWA-17S Performed by pH Calcium Barium Beryllium Boron Total Dissolved Solids Chloride Sulfate YGWA-18S Performed by pH Calcium Barium Beryllium Boron Chromium Lithium Total Dissolved Solids Chloride Sulfate YGWA-18I Performed by pH Calcium Barium Lithium Total Dissolved Solids Chloride Sulfate YGWA-18I Performed by pH Calcium Barium Lithium Total Dissolved Solids Chloride Sulfate GWA-2 Performed by pH Calcium Arsenic Barium Cobalt Lithium Nickel Vanadium Zinc Total Dissolved Solids	Parameters Result YGWA-17S Customer pH Performed by Calcium 3.0 Barium 0.017 Beryllium 0.00010J Boron 0.013J Total Dissolved Solids 81.0 Chloride 12.0 Sulfate 4.7 YGWA-18S Variant Server Performed by Customer pH 5.18 Calcium 0.77J Barium 0.012 Beryllium 0.00082J Boron 0.014J Chromium 0.0015J Lithium 0.0014J Total Dissolved Solids 52.0 Chloride 7.0 Sulfate 1.3 YGWA-18I Variant Performed by Customer pH Lithium 0.0017 Lithium 0.0017 Lithium 0.0036J Total Dissolved Solids 100 Chloride 7.9 Sulfate 0.78J GWA-2 Performed by	YGWA-17S Result Units Performed by PH 4.68 Std. Units Calcium 3.0 mg/L Barium 0.017 mg/L Boron 0.013J mg/L Boron 0.013J mg/L Chloride 12.0 mg/L Sulfate 4.7 mg/L YGWA-18S Vary Std. Units Performed by Customer Customer PH 5.18 Std. Units Calcium 0.77J mg/L Beryllium 0.00082J mg/L Boron 0.014J mg/L Chromium 0.0014J mg/L Lithium 0.0014J mg/L Total Dissolved Solids 52.0 mg/L Chloride 7.0 mg/L YGWA-18I Variant 5.82 Std. Units Total Dissolved Solids 100 mg/L Calcium 5.7 mg/L Barium 0.017 mg/L </td <td>Parameters Result Units Report Limit YGWA-17S Volumer PH 4.68 Std. Units Calcium 3.0 mg/L 1.0 Barium 0.017 mg/L 0.0050 Beryllium 0.0010J mg/L 0.00050 Boron 0.013J mg/L 25.0 Chloride 12.0 mg/L 1.0 Sulfate 4.7 mg/L 1.0 YGWA-18S V Customer PH 5.18 Std. Units Calcium Beryllium 0.0002 mg/L 0.00050 Beryllium 0.00082 mg/L 0.00050 Beryllium 0.00082 mg/L 0.00050 Beryllium 0.00082 mg/L 0.00050 Beryllium 0.00082 mg/L 0.00050 Beryllium 0.00082 mg/L 0.00050 Beryllium 0.00082 mg/L 0.00050 Beryllium 0.000082 mg/L 0.0005</td> <td>Parameters Result Units Report Limit Analyzed YGWA-17S Valva (Str.)</td>	Parameters Result Units Report Limit YGWA-17S Volumer PH 4.68 Std. Units Calcium 3.0 mg/L 1.0 Barium 0.017 mg/L 0.0050 Beryllium 0.0010J mg/L 0.00050 Boron 0.013J mg/L 25.0 Chloride 12.0 mg/L 1.0 Sulfate 4.7 mg/L 1.0 YGWA-18S V Customer PH 5.18 Std. Units Calcium Beryllium 0.0002 mg/L 0.00050 Beryllium 0.00082 mg/L 0.00050 Beryllium 0.00082 mg/L 0.00050 Beryllium 0.00082 mg/L 0.00050 Beryllium 0.00082 mg/L 0.00050 Beryllium 0.00082 mg/L 0.00050 Beryllium 0.00082 mg/L 0.00050 Beryllium 0.000082 mg/L 0.0005	Parameters Result Units Report Limit Analyzed YGWA-17S Valva (Str.)



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Client Sample ID			Demand Line	A I I	
Parameters	Result _	Units	Report Limit	Analyzed	Qualifier
YGWA-5I					
Performed by	Customer			08/31/22 16:00	
рН	5.00	Std. Units		08/31/22 16:00	
Calcium	2.5	mg/L	1.0	09/14/22 18:34	M1
Barium	0.017	mg/L	0.0050	09/15/22 20:55	
Lithium	0.0035J	mg/L	0.030	09/15/22 20:55	
Total Dissolved Solids	86.0	mg/L	25.0	09/02/22 11:12	
Chloride	4.4	mg/L	1.0	09/08/22 03:02	
Sulfate	2.4	mg/L	1.0	09/08/22 03:02	
YGWA-5D					
Performed by	Customer			08/31/22 16:00	
pН	7.40	Std. Units		08/31/22 16:00	
Calcium	24.8	mg/L	1.0	09/14/22 18:53	
Arsenic	0.0031J	mg/L	0.0050	09/15/22 21:01	
Barium	0.0079	mg/L	0.0050	09/15/22 21:01	
Boron	0.0098J	mg/L	0.040	09/15/22 21:01	
Lithium		_	0.030		
		•			
•		•			
		•			
		•			
Sulfate	5.7	mg/L	1.0	09/08/22 03:44	
YGWA-21I		-			
Performed by	Customer			08/31/22 16:00	
pН	6.58	Std. Units		08/31/22 16:00	
Calcium	7.3	mg/L	1.0	09/14/22 18:58	
Antimony	0.0046	_	0.0030	09/15/22 21:19	
•		_			
		•			
		•			
		•			
		•			
		•			
		•			
Sulfate	3.2	mg/L	1.0	09/08/22 03:58	
YGWA-1D		Ü			
	Customer			08/31/22 16:01	
•		Std. Units		08/31/22 16:01	
•			1.0	09/14/22 19:12	
		_			
		•			
		ū			
Molybdenum	0.0094J	mg/L	0.030	09/15/22 21:25	
INICIVOUCHUIH	0.00543	mg/L	0.010	03/13/22 21.23	
•	116	ma/I	25.0	00/02/22 44:42	
Total Dissolved Solids Chloride	116 1.3	mg/L mg/L	25.0 1.0	09/02/22 11:12 09/08/22 04:12	
•	Parameters YGWA-5I Performed by pH Calcium Barium Lithium Total Dissolved Solids Chloride Sulfate YGWA-5D Performed by pH Calcium Arsenic Barium Boron Lithium Molybdenum Total Dissolved Solids Chloride Fluoride Sulfate YGWA-21I Performed by pH Calcium Antimony Arsenic Barium Boron Cobalt Lithium Total Dissolved Solids Chloride Fluoride Sulfate	YGWA-5I Result Performed by PH 5.00 Customer PH 5.00 Calcium 2.5 Barium 0.017 Lithium 0.0035J Total Dissolved Solids 86.0 Chloride 4.4 Sulfate 2.4 YGWA-5D Varenter PH 7.40 Calcium 24.8 Arsenic 0.0031J Barium 0.0079 Boron 0.0098J Lithium 0.0068J 0.008J Molybdenum 0.00089J 0.00089J Total Dissolved Solids 148 Chloride 3.5 Fluoride 0.085J Sulfate 5.7 YGWA-21I Performed by Customer PH 6.58 Calcium 7.3 Antimony 0.0046 Arsenic 0.0022J Barium 0.0085 Boron 0.012J Cobalt 0.0066 Lithium 0.0079J Total Dissolved Solids 122 Cohoride 0.10 2.4 Fluoride 0.10 3.2 YGWA-1D Performed by Customer PH 7.2 Calcium 14.9 Barium 0.0066 Chromium 0.0011J 0.0011J	Parameters Result Units YGWA-5I Volume Units Performed by PH 5.00 Std. Units Calcium 2.5 mg/L Barium 0.017 mg/L Lithium 0.0035J mg/L Total Dissolved Solids 86.0 mg/L Chloride 4.4 mg/L Sulfate 2.4 mg/L YGWA-5D Volume Volume Performed by Customer pH PH 7.40 Std. Units Calcium 24.8 mg/L Arsenic 0.0031J mg/L Barium 0.0079 mg/L Boron 0.0098J mg/L Lithium 0.00089J mg/L Molydenum 0.00089J mg/L Total Dissolved Solids 148 mg/L Chloride 3.5 mg/L Fluoride 0.085J mg/L Sulfate 7.3 mg/L VGWA-	YGWA-5I Result Units Report Limit Performed by PH 5.00 Std. Units 1.0 Calcium 2.5 mg/L 1.0 Barium 0.017 mg/L 0.0050 Lithium 0.0035J mg/L 0.030 Total Dissolved Solids 86.0 mg/L 25.0 Chloride 4.4 mg/L 1.0 Sulfate 2.4 mg/L 1.0 YGWA-5D V Customer PH 7.40 Std. Units Calcium 24.8 mg/L 1.0 Arsenic 0.0031J mg/L 0.0050 Barium 0.0079 mg/L 0.0050 Boron 0.0098J mg/L 0.0050 Boron 0.0068J mg/L 0.00 Lithium 0.0068J mg/L 0.010 Total Dissolved Solids 148 mg/L 2.50 Chloride 0.085J mg/L 0.10 Fluoride 0.085J <t< td=""><td>Parameters Result Units Report Limit Analyzed YGWA-5I Ferformed by Customer pH 0.8/31/22 16:00 Calcium 2.5 mg/L 1.0 09/14/22 18:34 Bar of the philance of the philanc</td></t<>	Parameters Result Units Report Limit Analyzed YGWA-5I Ferformed by Customer pH 0.8/31/22 16:00 Calcium 2.5 mg/L 1.0 09/14/22 18:34 Bar of the philance of the philanc



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Lab Sample ID	Client Sample ID	Danula	1.1425	Donast Lise	A n a l: : !	01:4:
Method ————————————————————————————————————	Parameters —	Result _	Units	Report Limit	Analyzed	Qualifiers
2623226008	YGWA-1D					
EPA 300.0 Rev 2.1 1993	Sulfate	10.2	mg/L	1.0	09/08/22 04:12	
2623226009	YGWA-2I					
	Performed by	Customer			08/31/22 16:01	
	рН	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	
2623226010	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		
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	
PA 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
PA 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	
PA 300.0 Rev 2.1 1993	Sulfate	1.1	mg/L	1.0	09/08/22 17:05	
2623226011	YGWA-14S					
	Performed by	Customer			09/02/22 10:45	
	рH	5.15	Std. Units		09/02/22 10:45	
PA 6010D	Calcium	1.3	mg/L	1.0	09/14/22 19:27	
PA 6020B	Barium	0.0075	mg/L	0.0050	09/16/22 15:19	
PA 6020B	Beryllium	0.00020J	mg/L	0.00050	09/16/22 15:19	
PA 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	
PA 300.0 Rev 2.1 1993	Sulfate	5.8	mg/L	1.0	09/08/22 17:47	
2623226012	YGWA-1I					
	Performed by	Customer			09/02/22 10:45	
	рH	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	
PA 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	
PA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	09/08/22 18:01	
PA 300.0 Rev 2.1 1993	Fluoride	0.065J	mg/L	0.10	09/08/22 18:01	



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifier
2623226012	YGWA-1I					
EPA 300.0 Rev 2.1 1993	Sulfate	4.8	mg/L	1.0	09/08/22 18:01	
2623226013	YGWA-47					
	Performed by	Customer			09/02/22 10:45	
	рН	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	
2623226014	YGWA-4I					
	Performed by	Customer			09/02/22 10:46	
	рH	5.50	Std. Units		09/02/22 10:46	
EPA 6010D	Calcium	8.9	mg/L	1.0		
PA 6020B	Barium	0.013	mg/L	0.0050	09/16/22 15:36	
PA 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	
2623226015	YGWA-20S					
	Performed by	Customer			09/02/22 10:46	
	рH	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	
2623226016	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		
EPA 6020B	Lithium	0.022J	mg/L	0.030	09/16/22 15:48	
EPA 6020B	Molybdenum	0.0068J	mg/L	0.010		
SM 2540C-2015	Total Dissolved Solids	137	mg/L	25.0		
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L		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	
2623226017	YGWA-3D					
	Performed by	Customer			09/02/22 10:47	
		240(011101			,,	

REPORT OF LABORATORY ANALYSIS

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Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
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	
2623226018	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	
2623226019	YGWA-40					
	Performed by	Customer			09/02/22 10:47	
	рН	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	



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

Sample: YGWA-17S	Lab ID:	92623226001	Collecte	ed: 08/30/22	2 15:40	Received: 08/	31/22 11:03 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	Customer				1		08/31/22 15:58		
H	4.68	Std. Units			1		08/31/22 15:58		
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	S A				
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 6	020B Prep	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	SA.				
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	
_ead	ND	mg/L	0.0010	0.00089	1	09/12/22 18:08	09/13/22 20:15	7439-92-1	
_ithium	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 7	470A Prep	paration Met	hod: EP	A 7470A			
-	Pace Ana	lytical Services	- Peachtre	e Corners, G	SA.				
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 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA				
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 3	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical 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	



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

Sample: YGWA-18S	Lab ID:	92623226002	Collecte	ed: 08/30/22	2 10:10	Received: 08/	/31/22 11:03 N	latrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte)					
Performed by	Customer				1		08/31/22 15:58	3	
pH	5.18	Std. Units			1		08/31/22 15:58	3	
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
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 6	020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
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	0.000082J	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	
_ead	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 7	470A Pre	paration Met	hod: EF	A 7470A			
•	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
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 25	540C-2015	;					
	Pace Ana	lytical Services	- Peachtre	e Corners, C	€A				
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 3	300.0 Rev 2	2.1 1993					
•	Pace Ana	lytical Services	- Asheville	:					
Chloride	7.0	mg/L	1.0	0.60	1		09/08/22 01:52	2 16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 01:52		
Sulfate	1.3	mg/L	1.0	0.50	1		09/08/22 01:52		



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

Sample: YGWA-18I	Lab ID:	92623226003	Collecte	ed: 08/30/22	2 13:35	Received: 08/	/31/22 11:03 N	latrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte)					
Performed by	Customer				1		08/31/22 15:59)	
рН	5.82	Std. Units			1		08/31/22 15:59)	
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	€A				
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 6	6020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	€A				
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		
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		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 20:43		
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 20:43		
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 20:43		
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29			
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		
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 20:43		
7470 Mercury	Analytical	Method: EPA 7	7470A Pre	paration Met	hod: EF	A 7470A			
•	Pace Ana	lytical Services	- Peachtre	e Corners, C	S A				
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 2	540C-2015	;					
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
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 3	300.0 Rev 2	2.1 1993					
•	Pace Ana	lytical 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		
Sulfate	0.78J	mg/L	1.0	0.50	1		09/08/22 02:06		



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

Sample: GWA-2	Lab ID:	92623226004	Collecte	ed: 08/30/22	2 10:05	Received: 08/	/31/22 11:03 N	latrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical								
	Pace Ana	lytical Services	 Charlotte 	!					
Performed by	Customer				1		08/31/22 15:59)	
Н	5.39	Std. Units			1		08/31/22 15:59)	
6010D ATL ICP	•	Method: EPA 6				PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	iΑ				
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		Method: EPA 6				PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	3A				
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	
.ead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 20:49	7439-92-1	
_ithium	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	
lickel	0.015	mg/L	0.0050	0.00071	1	09/13/22 18:29	09/15/22 20:49		
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29			
Silver	ND	mg/L	0.0050	0.00044	1	09/13/22 18:29	09/15/22 20:49		
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 20:49		
/anadium	0.0026J	mg/L	0.010	0.0019	1	09/13/22 18:29	09/15/22 20:49		В
Zinc	0.011	mg/L	0.010	0.0070	1	09/13/22 18:29	09/15/22 20:49		J
470 Mercury	Analytical	Method: EPA 7	470A Prep	paration Met	hod: EF	A 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
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 25	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	3A				
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 3	00.0 Rev 2	2.1 1993					
-	Pace Ana	lytical 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		
Sulfate	101	mg/L	2.0	1.0	2		09/08/22 07:36		



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

Sample: YGWA-5I	Lab ID:	92623226005	Collecte	ed: 08/30/22	2 10:52	Received: 08/	/31/22 11:03 N	Matrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	Customer				1		08/31/22 16:0	0	
pH	5.00	Std. Units			1		08/31/22 16:0	0	
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	S A				
Calcium	2.5	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 18:3	4 7440-70-2	M1
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 20:5	5 7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 20:5		
Barium	0.017	mg/L	0.0050	0.00067	1	09/13/22 18:29			
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29			
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 20:5	5 7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 20:5		
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:1	3 7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/16/22 15:1	3 7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 20:5	5 7439-92-1	
Lithium	0.0035J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 20:5	5 7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 20:5	5 7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 20:5	5 7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 20:5	5 7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Prej	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:3	1 7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
Total Dissolved Solids	86.0	mg/L	25.0	10.0	1		09/02/22 11:1:	2	
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0 Rev 2	2.1 1993					
•	-	lytical Services							
Chloride	4.4	mg/L	1.0	0.60	1		09/08/22 03:0	2 16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1			2 16984-48-8	
Sulfate	2.4	mg/L	1.0	0.50	1		09/08/22 03:0		



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

Sample: YGWA-5D	Lab ID:	92623226006	Collecte	ed: 08/30/2	2 12:05	Received: 08/	31/22 11:03 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
i alameters						- Trepared	- Analyzeu	- 	
Field Data	Analytical	Method:							
	Pace Ana	lytical 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 6	010D Prei	paration Me	thod: EF	PA 3010A			
33.027.12.0.	•	lytical Services							
Calcium	24.8	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 18:53	7440-70-2	
		Ü					03/14/22 10:33	7440 70 2	
6020 MET ICPMS	•	Method: EPA 6				PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, (GΑ				
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	
_ithium	0.0068J	mg/L	0.030	0.00073	1	09/13/22 18:29			
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 7	470A Prer	paration Met	thod: EF	PA 7470A			
,	•	lytical Services							
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 25	540C-2015						
	•	lytical Services			GΑ				
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 3	00.0 Rev 2	2.1 1993					
	•	lytical Services							
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		
Sulfate	5.7	mg/L	1.0	0.50	1		09/08/22 03:44		



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

Sample: YGWA-21I	Lab ID:	92623226007	Collecte	d: 08/30/22	2 14:30	Received: 08/	31/22 11:03 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical 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 6	010D Prep	paration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
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 6	020B Prep	aration Met	hod: EF	'A 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
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	
3arium	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	
_ead	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 7	'470A Prep	aration Met	hod: EP	A 7470A			
•		lytical Services							
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 25	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
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 3	300.0 Rev 2	.1 1993					
	Pace Ana	lytical 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	1/000 70 0	



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

Sample: YGWA-1D	Lab ID:	92623226008	Collecte	ed: 08/30/22	2 13:50	Received: 08/	31/22 11:03 M	latrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte)					
Performed by	Customer				1		08/31/22 16:01		
рН	7.2	Std. Units			1		08/31/22 16:01		
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
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 6	020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
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		
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		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:25		
Chromium	0.0011J	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 21:25		
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			
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			
7470 Mercury	Analytical	Method: EPA 7	7470A Pre	paration Met	hod: EF	A 7470A			
•	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
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 25	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	€A				
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 3	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	1.3	mg/L	1.0	0.60	1		09/08/22 04:12	2 16887-00-6	
Fluoride	0.093J	mg/L	0.10	0.050	1		09/08/22 04:12		
Sulfate	10.2	mg/L	1.0	0.50	1		09/08/22 04:12		



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

Sample: YGWA-2I	Lab ID:	92623226009	Collecte	ed: 08/30/22	2 10:00	Received: 08/	31/22 11:03 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte)					
Performed by	Customer				1		08/31/22 16:01		
рН	7.04	Std. Units			1		08/31/22 16:01		
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
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 6	6020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
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		
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		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:31		
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 7	7470A Pre	paration Met	hod: EF	A 7470A			
·	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
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 2	540C-2015	;					
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
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 3	300.0 Rev 2	2.1 1993					
•	Pace Ana	lytical 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		
Sulfate	20.1	mg/L	1.0	0.50	1		09/08/22 04:26		



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

Sample: YGWA-30I	Lab ID:	92623226010	Collecte	ed: 08/31/22	2 11:30	Received: 09/	01/22 09:05	Matrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte	;					
Performed by	Customer				1		09/02/22 10:4	3	
рН	5.87	Std. Units			1		09/02/22 10:4	3	
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	thod: El	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Calcium	1.3	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:2	2 7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: Ef	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	ЭΑ				
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 21:3	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 21:3	7440-38-2	
Barium	0.0068	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 21:3	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 21:3	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 21:3	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:3	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29			
Cobalt	0.0040J	mg/L	0.0050	0.00039	1	09/13/22 18:29			
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29			
Lithium	0.0012J	mg/L	0.030	0.00073	1	09/13/22 18:29			
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29			
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29			
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29			
7470 Mercury	Analytical	Method: EPA 7	7470A Pre	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:4	4 7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	ЭΑ				
Total Dissolved Solids	33.0	mg/L	25.0	10.0	1		09/05/22 13:0	00	D6
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	1.8	mg/L	1.0	0.60	1		09/08/22 17:0	5 16887-00-6	
Fluoride	0.060J	mg/L	0.10	0.050	1			5 16984-48-8	
Sulfate	1.1	mg/L	1.0	0.50	1			5 14808-79-8	



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

Sample: YGWA-14S	Lab ID:	92623226011	Collecte	ed: 08/31/22	2 14:15	Received: 09/	01/22 09:05 N	latrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	s - Charlotte)					
Performed by	Customer				1		09/02/22 10:4	5	
pH ,	5.15	Std. Units			1		09/02/22 10:4	5	
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	s - Peachtre	e Corners, C	€A				
Calcium	1.3	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:23	7 7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: EF	A 3005A			
	Pace Ana	lytical Services	s - Peachtre	e Corners, C	S A				
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	3 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	3 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	
_ead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29			
_ithium	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	3 7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:43	3 7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: EP	A 7470A			
·	Pace Ana	lytical Services	s - Peachtre	e Corners, C	€A				
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 2	2540C-2015						
	Pace Ana	lytical Services	s - Peachtre	e Corners, C	€A				
Total Dissolved Solids	51.0	mg/L	25.0	10.0	1		09/05/22 13:00)	
800.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	s - Asheville						
Chloride	4.6	mg/L	1.0	0.60	1		09/08/22 17:47	7 16887-00-6	
Fluoride	0.053J	mg/L	0.10	0.050	1		09/08/22 17:4		
Sulfate	5.8	mg/L	1.0	0.50	1		09/08/22 17:4		



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

Sample: YGWA-1I	Lab ID:	92623226012	Collecte	d: 08/31/2	2 09:10	Received: 09/	/01/22 09:05 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical Pace Ana	Method: llytical Services	- Charlotte						
Performed by bH	Customer 5.64	Std. Units			1 1		09/02/22 10:45 09/02/22 10:45		
6010D ATL ICP	•	Method: EPA 6				PA 3010A			
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	•	Method: EPA 6				PA 3005A			
Antimony Arsenic	ND ND	mg/L mg/L	0.0030 0.0050	0.00078 0.0022	1 1	09/13/22 18:29 09/13/22 18:29	09/16/22 15:25 09/16/22 15:25		
Barium Beryllium	0.0074 ND	mg/L mg/L	0.0050 0.0025	0.00067 0.00027	1 5	09/13/22 18:29 09/13/22 18:29	09/16/22 15:25 09/17/22 03:08		D3
Boron Cadmium	ND ND	mg/L mg/L	0.20 0.00050	0.043 0.00011	5 1	09/13/22 18:29 09/13/22 18:29	09/17/22 03:08 09/15/22 21:49		D3
Chromium Cobalt	ND 0.00085J	mg/L mg/L	0.0050 0.0050	0.0011 0.00039	1 1	09/13/22 18:29 09/13/22 18:29	09/16/22 15:25 09/16/22 15:25		
Lead Lithium	ND ND	mg/L mg/L	0.0010	0.00089	1	09/13/22 18:29 09/13/22 18:29	09/15/22 21:49	7439-92-1	
Molybdenum Selenium	0.0055J ND	mg/L mg/L	0.010 0.0050	0.00074	1	09/13/22 18:29 09/13/22 18:29		7439-98-7	
Thallium	ND	mg/L	0.0010	0.00014	1	09/13/22 18:29	09/15/22 21:49		
7470 Mercury	-	Method: EPA 7 llytical Services	-			A 7470A			
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	•	Method: SM 25 llytical Services		Corners, C	S A				
Total Dissolved Solids	46.0	mg/L	25.0	10.0	1		09/05/22 13:00		
300.0 IC Anions 28 Days	-	Method: EPA 3 llytical Services		.1 1993					
Chloride Fluoride	1.5 0.065J	mg/L mg/L	1.0 0.10	0.60 0.050	1 1		09/08/22 18:01 09/08/22 18:01		
Sulfate	4.8	mg/L	1.0	0.50	1		09/08/22 18:01		



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

Sample: YGWA-47	Lab ID:	92623226013	Collecte	ed: 08/31/22	2 09:15	Received: 09/	/01/22 09:05 N	latrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte)					
Performed by	Customer				1		09/02/22 10:45	5	
рН	5.32	Std. Units			1		09/02/22 10:45	5	
6010D ATL ICP	Analytical	Method: EPA 6	6010D Pre	paration Met	thod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	ee Corners, C	3A				
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 6	6020B Pre	paration Met	hod: EF	A 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
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		
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		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:5		
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:30		
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			
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		
Thallium	ND	mg/L	0.0010	0.00018	1		09/15/22 21:55		
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: EF	A 7470A			
•	Pace Ana	lytical Services	- Peachtre	ee Corners, C	βA				
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 2	540C-2015	;					
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
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	2.1 1993					
- -	Pace Ana	lytical Services	- Asheville	:					
Chloride	3.5	mg/L	1.0	0.60	1		09/08/22 18:15	5 16887-00-6	
Fluoride	0.065J	mg/L	0.10	0.050	1		09/08/22 18:15		
Sulfate	48.0	mg/L	1.0	0.50	1		09/08/22 18:15		



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

Sample: YGWA-4I	Lab ID:	92623226014	Collecte	ed: 08/31/22	2 15:37	Received: 09/	01/22 09:05 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical 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 6	010D Pre	paration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	S A				
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 6	020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	SA.				
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 7	470A Prei	paration Met	hod: EF	'A 7470A			
•	-	lytical Services							
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 25	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA				
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 3	300.0 Rev 2	2.1 1993					
-	Pace Ana	lytical 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	14808-70-8	



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

Sample: YGWA-20S	Lab ID:	92623226015	Collecte	d: 08/31/22	2 12:57	Received: 09/	/01/22 09:05 N	Matrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	Customer				1		09/02/22 10:4	6	
pH	5.38	Std. Units			1		09/02/22 10:4	6	
6010D ATL ICP	Analytical	Method: EPA	6010D Prep	aration Met	thod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtree	e Corners, C	βA				
Calcium	2.4	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:4	6 7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Prep	aration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	βA				
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/16/22 15:4	2 7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/16/22 15:4	2 7440-38-2	
Barium	0.011	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 22:0	7 7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	09/13/22 18:29	09/17/22 03:1	4 7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	09/13/22 18:29	09/17/22 03:1	4 7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/16/22 15:4	2 7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:4	2 7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/16/22 15:4	2 7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/16/22 15:4	2 7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 22:0	7 7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29			
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/16/22 15:4	2 7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 22:0	7 7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prep	aration Met	hod: EF	PA 7470A			
•	Pace Ana	lytical Services	- Peachtree	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 12:0	2 7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtree	e Corners, C	3A				
Total Dissolved Solids	62.0	mg/L	25.0	10.0	1		09/05/22 13:0	1	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	2.9	mg/L	1.0	0.60	1		09/08/22 18:4	3 16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1			3 16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/08/22 18:4		



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

Sample: YGWA-3I	Lab ID:	92623226016	Collecte	ed: 08/31/22	2 10:54	Received: 09/	01/22 09:05 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
i didiffeters				IVIDE		- Trepared	- Analyzeu	- 	— Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	Customer				1		09/02/22 10:47		
H	7.49	Std. Units			1		09/02/22 10:47		
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	hod: FF	PA 3010A			
OTOD ATE IOI	•	lytical Services	'			7.00107.			
Calcium	23.5	•	1.0	0.12		00/14/00 10:55	09/14/22 19:50	7440 70 0	
Saicium	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 6	020B Prep	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
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		
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	
_ead	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 7	470A Prei	paration Met	hod: EF	PA 7470A			
,	•	lytical Services				-			
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 25	540C-2015						
10 Total Bioscived Collas	•	lytical Services			AF.				
Fotal Dissolved Solids	137	mg/L	25.0	10.0	1		09/05/22 13:01		
		Ü			•		00/00/22 10.01		
300.0 IC Anions 28 Days	•	Method: EPA 3							
	Pace Ana	lytical Services	- Asheville						
Chloride	1.3	mg/L	1.0	0.60	1		09/08/22 19:24	16887-00-6	
-luoride	0.13	mg/L	0.10	0.050	1		09/08/22 19:24		
Sulfate	13.9	mg/L	1.0	0.50	1		09/08/22 19:24		



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

Sample: YGWA-3D	Lab ID:	92623226017	Collecte	ed: 08/31/22	2 09:30	Received: 09/	01/22 09:05 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Anal	ytical Services	- Charlotte						
Performed by	Customer				1		09/02/22 10:47		
ρΗ	7.65	Std. Units			1		09/02/22 10:47		
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	hod: Ef	PA 3010A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	SA.				
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 6	020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	SA.				
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	
₋ead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 22:30	7439-92-1	
_ithium	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	
Γhallium	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 7	470A Pre	paration Met	hod: EF	PA 7470A			
·	Pace Anal	ytical Services	- Peachtre	e Corners, C	SA.				
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 25	540C-2015						
	Pace Anal	ytical Services	- Peachtre	e Corners, C	SA.				
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 3	300.0 Rev 2	2.1 1993					
-	Pace Anal	ytical 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		



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

Sample: YGWA-39	Lab ID:	92623226018	Collecte	ed: 08/31/2	2 13:50	Received: 09/	01/22 09:05 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Date	Analytical	Mathadi					, .		
Field Data	Analytical Pace Ana	Method: lytical 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 6	010D Pre	paration Me	thod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	3A				
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 6	020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	3A				
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			
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		
_ead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 22:36	7439-92-1	
_ithium	0.0065J	mg/L	0.030	0.00073	1	09/13/22 18:29			
Molybdenum	0.0036J	mg/L	0.010	0.00074	1	09/13/22 18:29			
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 22:36		
Γhallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 22:36		
7470 Mercury	Analytical	Method: EPA 7	470A Prej	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	βA				
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 25	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	3A				
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 3	00.0 Rev 2	2.1 1993					
	Pace Ana	lytical 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		
Sulfate	10.9	mg/L	1.0	0.50	1		09/08/22 19:52		



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

Sample: YGWA-40	Lab ID:	92623226019	Collecte	ed: 08/31/22	2 16:40	Received: 09/	/01/22 09:05 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	Customer				1		09/02/22 10:47		
оН	4.53	Std. Units			1		09/02/22 10:47		
			.0400 0			24.00404			
6010D ATL ICP	•	Method: EPA 6				PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
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 6	020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
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	0.00070	1	09/13/22 18:29	09/15/22 22:42		
Barium	0.035	mg/L	0.0050	0.00067	1	09/13/22 18:29			
Beryllium	0.00025J	mg/L	0.00050	0.000054	1		09/15/22 22:42		
Boron	0.062	mg/L	0.040	0.0086	1	09/13/22 18:29			
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29			
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29			
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 22:42		
₋ead	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	
Γhallium	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 7	470A Prer	paration Met	hod: EF	PA 7470A			
,,	•	lytical Services							
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 25	540C-2015						
2340C Total Dissolved Solids	•	lytical Services		e Corners (Aβ				
5							00/05/00 40 04		
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 3	00.0 Rev 2	2.1 1993					
	Pace Ana	lytical 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		
Sulfate	17.9	mg/L	1.0	0.50	1		09/08/22 20:34		



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

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, 926232260

eles: 92623226001, 92623226002, 92623226003, 92623226004

Blank Reporting

Parameter Units Result Limit MDL Analyzed Qualifiers

Calcium mg/L ND 1.0 0.12 09/12/22 21:07

LABORATORY CONTROL SAMPLE: 3765945

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3765946 3765947

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

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



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

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 Blank Reporting Qualifiers MDL Parameter Units Result Limit Analyzed Calcium ND 1.0 0.12 09/14/22 18:24 mg/L LABORATORY CONTROL SAMPLE: 3767577 Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Calcium mg/L 1.0 101 80-120 MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3767578 3767579 MSD MS 92623226005 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits **RPD** RPD Qual 20 M1 Calcium 2.5 3.4 85 75-125 mg/L 3.3 73

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.



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

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

		Blank	Reporting			
Parameter	Units	Result	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	

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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 DUPL	ICATE: 3765	583		3765584							
		92622406019	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
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	

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.



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

MATRIX SPIKE & MATRIX	SPIKE DUPLIC	CATE: 3765	583		3765584							
Parameter	9 Units	2622406019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max 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	

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.



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

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

		Blank	Reporting			
Parameter	Units	Result	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					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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	

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.



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

LABORATORY CONTROL SAMPLE: 3767332

Spike I

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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 S	PIKE DUPLI	CATE: 3767	333		3767334	,						
			MS	MSD								
	9	92623226002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Antimony	mg/L	ND 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	

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.



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Mercury

Date: 10/04/2022 02:35 PM

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

 mg/L
 ND
 0.00020
 0.00013
 09/16/22 11:01

LABORATORY CONTROL SAMPLE: 3769764

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

MS

MSD

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3769765 3769766

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

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.



Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

LABORATORY CONTROL SAMPLE:

Date: 10/04/2022 02:35 PM

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

3757807

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

92623226009

Parameter Units Result Reporting Limit MDL Analyzed Qualifiers

Total Dissolved Solids mg/L ND 25.0 10.0 09/02/22 11:11

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

SAMPLE DUPLICATE: 3757808 92623226001 Dup Max **RPD RPD** Parameter Units Result Result Qualifiers **Total Dissolved Solids** 81.0 78.0 4 25 mg/L

SAMPLE DUPLICATE: 3757809 92623294003 Dup Max RPD RPD Parameter Units Result Result Qualifiers **Total Dissolved Solids** mg/L 628 638 2 25

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.



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

ParameterUnitsBlank Reporting ResultReporting LimitMDLAnalyzedQualifiersTotal Dissolved Solidsmg/LND25.010.009/05/22 12:59

LABORATORY CONTROL SAMPLE: 3759031

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

SAMPLE DUPLICATE: 3759032

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

SAMPLE DUPLICATE: 3759033

Date: 10/04/2022 02:35 PM

 Parameter
 Units
 Result Result Result
 RPD RPD
 Qualifiers

 Total Dissolved Solids
 mg/L
 206
 204
 1
 25

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.



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

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Total Dissolved Solids mg/L ND 25.0 10.0 09/06/22 14:51

LABORATORY CONTROL SAMPLE: 3759490

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

SAMPLE DUPLICATE: 3759491

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

SAMPLE DUPLICATE: 3759492

Date: 10/04/2022 02:35 PM

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

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.



QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

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

		Blank	Reporting			
Parameter	Units	Result	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					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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 SP	IKE DUPL	ICATE: 3760	041		3760042							
			MS	MSD								
		92622406016	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
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 SP	IKE DUPL	ICATE: 3760	043		3760044							
			MS	MSD								
		92623226003	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
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	

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.



QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

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

		Blank	Reporting			
Parameter	Units	Result	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					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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 SP	IKE DUPL	ICATE: 3761	860		3761861							
			MS	MSD								
		92623832001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
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 SP	IKE DUPL	ICATE: 3761	862		3761863							
		92623226015	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
		92023220013	Spike	Spike	IVIO	MOD	IVIO	MOD	70 Kec		iviax	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
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	

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.



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

Date: 10/04/2022 02:35 PM

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
92623226001	YGWA-17S			_	
92623226002	YGWA-18S				
2623226003	YGWA-18I				
2623226004	GWA-2				
2623226005	YGWA-5I				
2623226006	YGWA-5D				
2623226007	YGWA-21I				
2623226008	YGWA-1D				
2623226009	YGWA-2I				
2623226010	YGWA-30I				
2623226011	YGWA-14S				
2623226012	YGWA-1I				
2623226013	YGWA-47				
2623226014	YGWA-4I				
2623226015	YGWA-20S				
2623226016	YGWA-3I				
2623226017	YGWA-3D				
2623226018	YGWA-39				
2623226019	YGWA-40				
2623226001	YGWA-17S	EPA 3010A	722758	EPA 6010D	722798
2623226002	YGWA-18S	EPA 3010A	722758	EPA 6010D	722798
2623226003	YGWA-18I	EPA 3010A	722758	EPA 6010D	722798
2623226004	GWA-2	EPA 3010A	722758	EPA 6010D	722798
2623226005	YGWA-5I	EPA 3010A	723071	EPA 6010D	723278
2623226006	YGWA-5D	EPA 3010A	723071	EPA 6010D	723278
2623226007	YGWA-21I	EPA 3010A	723071	EPA 6010D	723278
2623226008	YGWA-1D	EPA 3010A	723071	EPA 6010D	723278
2623226009	YGWA-2I	EPA 3010A	723071	EPA 6010D	723278
2623226010	YGWA-30I	EPA 3010A	723071	EPA 6010D	723278
2623226011	YGWA-14S	EPA 3010A	723071	EPA 6010D	723278
2623226012	YGWA-1I	EPA 3010A	723071	EPA 6010D	723278
2623226013	YGWA-47	EPA 3010A	723071	EPA 6010D	723278
2623226014	YGWA-4I	EPA 3010A	723071	EPA 6010D	723278
2623226015	YGWA-20S	EPA 3010A	723071	EPA 6010D	723278
2623226016	YGWA-3I	EPA 3010A	723071	EPA 6010D	723278
2623226017	YGWA-3D	EPA 3010A	723071	EPA 6010D	723278
2623226018	YGWA-39	EPA 3010A	723071	EPA 6010D	723278
2623226019	YGWA-40	EPA 3010A	723071	EPA 6010D	723278
2623226001	YGWA-17S	EPA 3005A	722711	EPA 6020B	722836
2623226002	YGWA-18S	EPA 3005A	723035	EPA 6020B	723160
2623226003	YGWA-18I	EPA 3005A	723035	EPA 6020B	723160
2623226004	GWA-2	EPA 3005A	723035	EPA 6020B	723160
2623226005	YGWA-5I	EPA 3005A	723035	EPA 6020B	723160
2623226006	YGWA-5D	EPA 3005A	723035	EPA 6020B	723160
2623226007	YGWA-21I	EPA 3005A	723035	EPA 6020B	723160
2623226008	YGWA-1D	EPA 3005A	723035	EPA 6020B	723160
2623226009	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

Date: 10/04/2022 02:35 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
92623226010	YGWA-30I	EPA 3005A	723035	EPA 6020B	723160
2623226011	YGWA-14S	EPA 3005A	723035	EPA 6020B	723160
2623226012	YGWA-1I	EPA 3005A	723035	EPA 6020B	723160
2623226013	YGWA-47	EPA 3005A	723035	EPA 6020B	723160
2623226014	YGWA-4I	EPA 3005A	723035	EPA 6020B	723160
2623226015	YGWA-20S	EPA 3005A	723035	EPA 6020B	723160
2623226016	YGWA-3I	EPA 3005A	723035	EPA 6020B	723160
2623226017	YGWA-3D	EPA 3005A	723035	EPA 6020B	723160
2623226018	YGWA-39	EPA 3005A	723035	EPA 6020B	723160
2623226019	YGWA-40	EPA 3005A	723035	EPA 6020B	723160
2623226001	YGWA-17S	EPA 7470A	723525	EPA 7470A	723743
2623226002	YGWA-18S	EPA 7470A	723525	EPA 7470A	723743
2623226003	YGWA-18I	EPA 7470A	723525	EPA 7470A	723743
2623226004	GWA-2	EPA 7470A	723525	EPA 7470A	723743
2623226005	YGWA-5I	EPA 7470A	723525	EPA 7470A	723743
2623226006	YGWA-5D	EPA 7470A	723525	EPA 7470A	723743
2623226007	YGWA-21I	EPA 7470A	723525	EPA 7470A	723743
2623226008	YGWA-1D	EPA 7470A	723525	EPA 7470A	723743
2623226009	YGWA-2I	EPA 7470A	723525	EPA 7470A	723743
2623226010	YGWA-30I	EPA 7470A	723525	EPA 7470A	723743
2623226011	YGWA-14S	EPA 7470A	723525	EPA 7470A	723743
2623226012	YGWA-1I	EPA 7470A	723525	EPA 7470A	723743
2623226013	YGWA-47	EPA 7470A	723525	EPA 7470A	723743
2623226014	YGWA-4I	EPA 7470A	723525	EPA 7470A	723743
2623226015	YGWA-20S	EPA 7470A	723525	EPA 7470A	723743
2623226016	YGWA-3I	EPA 7470A	723525	EPA 7470A	723743
2623226017	YGWA-3D	EPA 7470A	723525	EPA 7470A	723743
2623226018	YGWA-39	EPA 7470A	723525	EPA 7470A	723743
2623226019	YGWA-40	EPA 7470A	723525	EPA 7470A	723743
2623226001	YGWA-17S	SM 2540C-2015	721194		
2623226002	YGWA-18S	SM 2540C-2015	721194		
2623226003	YGWA-18I	SM 2540C-2015	721194		
2623226004	GWA-2	SM 2540C-2015	721194		
2623226005	YGWA-5I	SM 2540C-2015	721194		
2623226006	YGWA-5D	SM 2540C-2015	721563		
2623226007	YGWA-21I	SM 2540C-2015	721194		
2623226008	YGWA-1D	SM 2540C-2015	721194		
2623226009	YGWA-2I	SM 2540C-2015	721194		
2623226010	YGWA-30I	SM 2540C-2015	721455		
2623226011	YGWA-14S	SM 2540C-2015	721455		
2623226012	YGWA-1I	SM 2540C-2015	721455		
2623226013	YGWA-47	SM 2540C-2015	721455		
2623226014	YGWA-4I	SM 2540C-2015	721455		
2623226015	YGWA-20S	SM 2540C-2015	721455		
2623226016	YGWA-3I	SM 2540C-2015	721455		
2623226017	YGWA-3D	SM 2540C-2015	721455		



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Date: 10/04/2022 02:35 PM

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		

Pace DC#_Title: ENV-FRM-HI Effective Date: 05/12/2022	JN1-0083 v(01_Sa	mple C	ond	lition Upon Receipt
aboratory receiving samples:					
Asheville Eden Greenwood Upon Receipt	Huntersville	e 🗌	Raleigh	 Proje	Mechanicsville Atlanta Kernersville Kernersville
Courier: Feet X UPS	USPS			ent	
☐ Commercial ☐ Pace	Other:				92623226
Custody Seal Present? Yes No Sea	als Intact?	Yes	□No	,	Date/Initials Person Examining Contents: 8/31/22
Packing Material: Bubble Wrap	Bubble Bags [None		ther	Biological Tissue Frozen?
Thermometer:			,		☐Yes ☐No ☑N/A
Cooler Temp: Cooler Temp Corrected (°C): USDA Regulated Soil (N/A, water sample)	^ /	_	Wet □€	Blue	□None Temp should be above freezing to 6°C □Samples out of temp criteria. Samples on ice, cooling process has begun
Did samples originate in a quarantine zone within t	he United States:	CA, NY,	or SC		Did samples originate from a foreign source (internationally,
(check maps)? Yes No					Including Hawaii and Puerto Rico)? Yes No Comments/Discrepancy:
Chain of Custody Present?	Zies	□No	□N/A	1.	
Samples Arrived within Hold Time?	Yes	□No	□N/A	2	
Short Hold Time Analysis (<72 hr.)?	□Yes	DNO	□N/A	3	
Rush Turn Around Time Requested?	□yes	No	□N/A	4	L.
Sufficient Volume?	Yes	□No	□N/A	5	*
Correct Containers Used?	-Elygs	□No	□N/A	6	
-Pace Containers Used?	ZYgs	□No	□N/A		
Containers Intact? Dissolved analysis: Samples Field Filtered?	Z Yes	□No	_ □N/A	7	
Sample Labels Match COC?	□Yes □Yes	□No	ØN/A □N/A	8	
-Includes Date/Time/ID/Analysis Matrix:	WG				
Headspace in VOA Vials (>5-6mm)?	□Yes	□No	DNA	-1	0.
Trip Blank Present?	Yes	□No	ZN/A	-	1.
Trip Blank Custody Seals Present?	□Yes	□No	_ DVA		
COMMENTS/SAMPLE DISCREPANCY					Field Data Required? ☐Yes ☐No
				Lot	ID of split containers:
CLIENT NOTIFICATION/RESOLUTION					pH Strip Lots 1004611
				_	
Person contacted:	4-110		Date/Tin	ne:	

Qualtrax ID: 69614

Project Manager SCURF Review:

Project Manager SRF Review:

Page 1 of 2



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

PM: NMG

09/15/22

CLIENT: GA-GA Power

item#	BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	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) (CI·)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (CI-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	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 HCI (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG95-40 mL VOA H25O4 (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)	RPSN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGDU-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	1	1	1			1							1											2	/			
2	1	1	1			14	1						1											2		7770		
3	1	1	1		1	1/2	/				1		1	1										2				
4						X	1	1			1		1	1	1									2	1			
5	1	1	T		/	N		1			1				1					97				2	1			
6	1	1	1		1	13		/			1		1	1										2				
7	1	1	11		1	10		1																2				
8		1	1			V					1		1						-					2	1			
9	1	11	1		1	N	1				1		1	1	1	T								2	1			
10	1				1		1	1			1													1	1			
11	1				1	1	1	X			1		1		1									1	1			
12	1										1		1	1										1				

		pH Ac	ljustment Log for Pres	erved Samples		
Sample 1D	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot#
579						
			M			

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

	0
1-	Pace
1	MUTCH STORY

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

Effective Date: 05/12/2022

Laboratory receiving samples:			
	untersville	Raleigh[Mech LIOH : 0000000
Sample Condition Client Name: Upon Receipt	•	P	roject #: WUH - 92623226
Courier: Fed Ex DUPS	Dusps		PM: NMG Due Date: 09/15/22
Courier: Fed Ex UPS Commercial Dace	USPS Other:	Clie	CLIENT: GA-GA Power
Custody Seal Present? Yes 🗐 Yo Seals In	tact?	□No	Date/Initials Person Examining Contents: 4///2Z
Packing Material: Bubble Wrap Bubbl Thermometer:	e Bags Non	e 🗌 Oti	ner Biological Tissue Frozen?
1R Gun 1D: 230	Type of Ice:	Wet □Bit	Terrora Total Section 101 - Se
Cooler Temp: Correction Factor: Add/Subtract (°C)	6.0		Temp should be above freezing to 6°C
1	7	-	Samples out of temp criteria. Samples on ice, cooling process
Cooler Temp Corrected (°C): USDA Regulated Soil (N/A, water sample)	2)		has begun
Did samples originate in a quarantine zone within the Ur	nited States: CA, NY	, or SC	Did samples originate from a foreign source (internationally,
(check maps)? Yes No	· · · · · · · · · · · · · · · · · · ·		including Hawaii and Puerto Rico)?
Chain of Custody Present?	dres □No	□N/A	1.
Samples Arrived within Hold Time?	Dres One	□N/A	2.
Short Hold Time Analysis (<72 hr.)?	OYes ONo	□N/A	3.
Rush Turn Around Time Requested?	□Yes □No	□N/A	4.
Sufficient Volume?	ØYes □No	□N/A	5.
Correct Containers Used?	Yes No	□N/A	6.
-Pace Containers Used?	Pres No	□N/A	
Containers Intact?	□res □No	N/A	7.
Dissolved analysis: Samples Field Filtered? Sample Labels Match COC?	Yes No	□N/A	9.
Sample cases Match Coc?	ØYes □Na	□N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	\mathcal{N}_{-}	nv	
Headspace in VOA Vials (>5-6mm)?	□Yes □No	⊟N /A	10.
Trip Blank Present?	∐Yes □No	□M/A	11.
Trip Blank Custody Seals Present?	□Yes □No	ØN/A	
COMMENTS/SAMPLE DISCREPANCY			Field Data Required? Yes No
		t	ot 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

*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

WO#: 92623226

PM: NMG

Due Date: 09/15/22

CLIENT: GA-GA Power

	(CI-)				f		۱ (۶۹)	-	pavia	(cl-)		(-iɔ) (7)	(-i)		N/A)
ltem#	BP4U-125 mL Plastic Unpreserved (N/A)	BP3U-250 mL Plastic Unpreserved (N/A	BP2U-500 mL Plastic Unpreserved (N/A	8P1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (CI	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 ml. Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (C	WGFU-Wide-mouthed Glass jar Unpres	AG1U-1 liter Amber Unpreserved (N/A)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG35-250 mL Amber H2504 (pH < 2)	DG94-250 mL Amber NH4CI (N/A)(CI-)	DG9H-40 mL VOA HCI (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 H2504 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A	SP5T-125 mL Sterile Plastic (N/A - lab)	SPZT-250 mL Serile Plastic (N/A - lab)	ROIN	BP3R-250 mL Plastic (NH2)25O4 (9.3-9.	AGOU-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials in
1		(1			V	/	1							/									22				
2		1	1		/	X	/				/		/	/	/									X	X			
3			1		/	1	/	/			/		/		/									3	X)			
4		1	1			1				91	1		/	/	/									7				
5		I	1			V								1					•					20				
6		1	1			V	/	/																20	X,			
7		١	١			V							/											2				
8			1			,V																		X				
9)	1			N																		X				
10			1			X								/										X	7			
11						1																						
12					/	/	/						/	/	/													

		рн Ас	ljustment Log for Pres	erved Samples		
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation	Amount of Preservative	Lot #
		·		adjusted	added	

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 Chein-of-Costody is a LEGAL DOCUMENT. All relevant fields must be contributed.

	•	App M. Hattas (2008; Arternory (St)), Arstenic (As), Bartum (Bs), Baryflum (Bs), Castrainn (Col), Corpulum (Co), Castest (Cos), Leos (PS), Vatuum (Lo), Adoptosenure (Ms), Sedenum (So) (PASA); Eduroum (Hs)	Agg H 60208: 35, Ag AL V	Aco B Moster: Baron 60208, Ca 80100.	12 YGWA-I4S	_	YGWA-211	YGWA-20S	ACM-181	YGWA-188	10 YGWA-178	TOWASD	AGMY81	YGWA-4)	GWA-2	YGWA-07	SAMPLE DO COMPANY OF THE PARTY				Brane An State 170 Com		Adors Allerta, GA	GA Provide Company	
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	Aop Nr. Matait 6020 B. Astimony (69), Astimite (Ast), Bothum (6a), Berystum (69), Castmium (CO), Communati(CO), Cothati (Co), Lead (Pb), Libium (LB, Maryotatrum (Ms), Belantum (6c), 7040/ki Marcury (Ng)	Anione States 200.0 (CL F. Stateste) App III Materia: Stores 60208, Ca 601607. App III 40(5)(5), Zn. Aq. Nt. V	TITLE INCOME.	THE YOUA 301	TOWN YOUR TOWN THE	181-AMDA EUR	S81-VADA MATERIA	報が MININI YGWA60	ACM YOMA-61	TOWA-4	IBZE GWA-2	Seeme to make to unique			Phone 470,620,6176 Fair	Grad To: Mucoker/Deputhernod com	Required Clean Indernation: Company, GA Poner Address: Attenta, GA	Saction A
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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.

		Beryllum (Be), Cado Lithum (Li), Molytide 7040A: Mercury (Hg)	App N: Me	App III Mar App III 60	Arions Su		12		10	9	8	7	6	5	4		2	-	ITEM#		Requeste	Phone:	Email To:	Address.	Company:	Required
		Beryilum (Be), Cadmium (Cd), Chromium (Cr), Coball (Co), Lead (Pb), Löhum (U), Molybdenum (Mo), Selenium (Se) TOADA: Mercury (Hg)	rtals 6020B: Antimorry (Sb), Arsenic (As), Ba	App III Metats: Boron 6020B, Ca 6010D; App III 6020B: Zn, Ag, Ni, V	Anions Sum 300.0 (Cl. F. Sulfate)	ADDITIONAL COMMENTS	YGWA-14S	YGWA-301	YGWA-21I	YGWA-20S	YGWA-181	YGWA-18S	YGWA-17S	YGWA-5D	YGWA-5I	YGWA-4I	GWA-2	YGWA-47	SAMPLE ID One Character per box. (A-Z, 0-9 f) Sample ids must be unique		Requested Due Date:	470.620.6176 Fax	laucoker@southemco.com	Aliania, GA	GA Power	Section A Required Client Information:
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		Benylimm (Be), Cadmium (CD), Chromium (Cr), Cobalt (Co), Lead (Pb), Libium (Li), Molybdenum (Mo), Selenium (Se)	App IV Motale 6020R: Antimony (Sh.) Arsenic (As.) Banirm (Ba.)	App III Metals: Boron 6020B, Ca 6010D; App III 6020B; Zn, Ag, Ni, V	Anions Suite 300.0 (Cl. F. Sulfate)	ADDITIONAL COMMENTS	YGWA-14S	YGWA-301	YGWA-211	YGWA-20S	YGWA-18I	YGWA-18S	YGWA-17S	YGWA-5D	YGWA-5I	YGWA-4I	GWA-2	YGWA-47	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique		Requested Due Date:	470.620.6176 Fax	laucoker@southernco.com	1	GA Power	Section A Required Client Information:
		Co), Lead (Pb).	im (Ba)	\	A									(00)					Orbelay Water W7 Water Weet W7 Water Weet W7 Product 9 P	- 1	Project Number	Project Name:	Purchas	Сору Та:	Report T	Section B Required
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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.

	App IV: I Beryttum Lithium (App III N	Anions S		12	11	10	9	co	7	8	5	4	w	2	1	Required C Company C Company C Company C Company C Phone: Requested Requested
The second	App IV: Medals 6020B; Antimony (Sb), Arsenic (As), Barium (Ba), Berytium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (U), Molybdenum (Mo), Selenium (Se) 7040A, Mercury (Hg)	App til Metals: Boron 6020B, Ca 6010D; App til 6020B: Zn, Ag, Ni, V	Anions Suite 300.0 (Cl. F, Suifate)	ADDITIONAL COMMENTS	YGWA-14S	YGWA-30I	YGWA-21I	YGWA-20S	YGWA-18I	YGWA-18S	YGWA-17S	YGWA-5D	YGWA-51	YGWA-41	GWA-2	YGWA-47	Section A Required Client Information: Required Client Information: Required Client Information: Recompany: GAP Power Address: Allanta, GA GRADERS: Requisitor: I aucoker@southernco.com Phone: 470.620.6176 Fax Desking Water Wat
1.00/r	1(Pb).	Kyan Willia	mare	RELINQUISHED BY I AFFILIATION	wg s	wg g	wg G 8/20/24	wg G	wg G	wg g	wg g	WG G 4 13/2	WG G Q/34/24	wg G	wg g,	wg G	Regulard Project in Report To: SCI Copy To: Arc. Project Name: Project Number: Project Number: Project Number: Project Number: Project Number: Project Number: Project Number: Project Number:
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TEMP in C		5	1003	TIME S													Regulatory Asserts Georgia Residual Chlorine (Y/N)
Received on ce (Y/N) Custody Sealed Cooler (Y/N) Samples				SAMPLE CONDITIONS	pH:	pH:	pH: 6.53	pH:	pH:	pH:	pH:	pH: 7.40	pH: S OO	pH:	PH:	pH:	ton Of)

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

		App IV: I Beryllium Lithium (7040A: I	App III M	Anions S	DATE OF THE PARTY	12	11	10	9	03	7	6	ÇTI	4	u	2	1	ITEM #			Reques	Phone:	Email To:	Address	Company:	Required
		App Nr. Metals 6020B; Antimony (Sb.), Arsenic (As.), Barium (Be.), Beryllium (Be.), Cadmium (Cd.), Chromium (Cr.), Cobalt (Co.), Lead (Pb.), Lithium (Li.), Maybdenum (Mo.), Selenium (Se.) 7040A; Mercury (Hg.)	App III Metals: Boron 6020B, Ca 6010D; App III 6020B; Zr, Ag. Ni. V	Anions Suite 300.0 (Cl, F, Sulfate)	ADDITIONAL COMMENTS						YGWA-3D	YGWA-3I	YGWA-2I	YGWA-1D	YGWA-11	YGWA-40	YGWA-39	SAMPLE ID SAMPLE ID SAMPLE ID Character per box. (A-Z, 0-9 (, -) Sample Ids must be unique Tenso Tenso Tenso Tenso Tenso Average Tenso Average Tenso			Requested Due Date:	470.620.6176 Fax	laucoker@southemco.com	Atlanta. GA	GA Power	Client Information:
		to. Kyan	27.	72	20													18 TO AM WWW DOOR	- 1		Project Number	Project Name:	Purchase Order #:	Copy To:	Report To:	Required Project Information:
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Required Ctient Information: Company: GA Power Address: Atlanta, GA App IV: Metals 6020B: Artimony (Sb), Alsenic (As), Barium (Ba), Beryllum (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Uthium (U), Molyddenum (Mo), Selenium (Se) App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V Section A mall To: nions Suite 300.0 (CI, F, Suifate) 12 ITEM # YGWA-14S GWA-2 YGWA-20S YGWA-18I YGWA-18S YGWA-5I YGWA-41 YGWA-30I YGWA-211 YGWA-17S YGWA-47 YGWA-5D 470.620.6176 Fax One Character per bex. (A-Z, 0-91, -) Sample lds must be unique SAMPLE ID ADDITIONAL COMMENTS MATRIX Driving Water Water Water Water Water Product Solf-Solid Other Tissue Purchase Order #: Project Name: Report To: SCS Contacts Copy To: Section B RELINQUISHED BY I AFFILIATION OMEN DOWNARCADE WG WG WG WG Arcadis Contacts MATRIX CODE (see yatid codes to left) 98/31 68/31 0 0 0 0 0 Q G G 0 SAMPLE TYPE Plant Yates Pooled Upgradient 11/1/1 DATE START 1257 1537 SAMPLER NAME AND SIGNATURE TIME PRINT Name of SAMPLER: SIGNATURE of SAMPLER: COLLECTED / Kale A88 DATE The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed CHAIN-OF-CUSTODY / Analytical Request Documen END TIME DATE 100 22 122 SAMPLE TEMP AT COLLECTION Attention: Southe Company Name: 0300 2 c # OF CONTAINERS Pace Quote: Pace Project Manager. Address: Ġ Œ c S cn G co cn G Section C 104 2 2 2 2 2 2 2 2 2 N N 2 Unpreserved H2SO4 ниоз w w ω ω w w ω ω u Preservatives HCI 20,0 NaOH ACCEPTED BY I AFFILIATION Na2S2O3 William Nicole D'Oleo Methanol Other **Analyses Test** Y/N App III/IV Metals × × PRIL DATE Signed: All Ex × × × × × × × CI, F, SO4 × × × × × × × × × × × × × × × TDS (2540C) × × × × × × RAD 9315/9320 App I / II (gpysum only) 2 accurately 09% 000 TIME Requistory Agency State / Location Page: TEMP in C Residual Chlorine (Y/N) SAMPLE CONDITIONS 맞 PH: 모 Received on 浧 ΡH 무 pH: 모 모 (Y/N) Custody Sealed Cooler 38 S gγ 9 (Y/N) Samples nlact (Y/N)

	App IV: Ma Beryllium (Lithium (Li	App III Me	Anions Su		12	11	10	8	8	7	100	5	1985	3	2	-	ITEM#	-		areachan	Phone:	Email To:	addiese.	Company:	Section A Required	
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	App IV: Metals 6020B; Antimony (Sb), Arsanic (As), Banum (Ba), Beryllum (Be), Cadmium (Cd), Chromium(Cr), Cobart (Co), Lead (Pb), Lithium (L1), Molycdenum (Mo), Selenium (Se) 7040A; Mercury (Hg)	App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	Anions Suite 300.0 (CI, F, Sulfate)	ADDITIONAL COMMENTS	YGWA-14S	YGWA-30I	YGWA-21I	YGWA-20S	YGWA-18I	YGWA-18S	YGWA-17S	YGWA-5D	YGWA-5I	YGWA-4I	GWA-2	YGWA-47	SAMPLE ID One Character per box. (A-Z 0-9 / -) Sample ids must be unique		ed Due Date:	470.620.6176 Fax		L		1 A ad Cilent Information:
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TEMP in C Received on Ice (Y/N)				SAMPLI	PH:	2 2	į.	į į]]]		1 5	2. 97.	1 1 1	2 9	1	_	Residual Chforine (Y/N)	Georgia	State / Location		Regulatory Agency		Page:	
Custody Seated Cooler (Y/N) Samples				SAMPLE CONDITIONS	5.15	8		1	+	1			1			+				Н			01	in a
Intact (Y/N)								\perp												Ц			Ĺ	77

Required Client Information: Company: GA Power Address: Allanta, GA App IV: Metals 6020B: Antimony (Sb), Artenic (As), Benium (Ba), Benyilium (Be), Cedmium (Cd), Chromium (Cr), Cobalt (Co), Lead Lithium (Li), Molyodenium (Mo), Selenium (Se) App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B; Zn, Ag, Ni, V Section A Anions Suite 300.0 (Cl. F. Sulfate) Email To: ITEM # 12 10 6 YGWA-2I YGWA-40 YGWA-3I YGWA-1D YGWA-11 YGWA-39 470.620.6176 Fex One Character per box. (A-Z, 0-91,-) Sample ids must be unique SAMPLE ADDITIONAL COMMENTS 5 Required Project Information: Report To: SCS Contacts Copy To: Arcadis Conta 9 Project Name: Purchase Order #: Lyan RELINQUISHED BY / AFFILIATION SCS Contacts Arcadis Contacts WG WG WG WG MATRIX CODE (see valid codes to left) Millians 0 0 G SAMPLE TYPE (G=GRAB C=COMP) Plant Yates Pooled Upgradient 0 0 0 0 START CAIG SAMPLER NAME AND SIGNATURE COLLECTED Para SIGNATURE of SAMPLER: PRINT Name of SAMPLER: To /Arcadis The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed DATE CHAIN-OF-CUSTODY / Analytical Request Document 1 ENO 19/1/ 100 TIME 1 ı ı 1 1 DATE 2 12 SAMPLE TEMP AT COLLECTION Attention: Southe Company Name: # OF CONTAINERS Pace Quote: Address: 1056 ch U on U 0800 THE 2 2 N 2 2 Unpreserved 7 H2SO4 Southern Co HNO3 w w w w w ω Preservatives CHAN HCI NaOH なない ACCEPTED BY / AFFILIATION Na2S2O3 Nicole D'Oleo Villian Methanol Other Y/N **Analyses Test** App III / IV Metals DATE Signed: CI, F, SO4 × × × × × Porce × × × × × × TDS (2540C) × × × × RAD 9315/9320 2 App | / || (gpysum only) 3 DATE accurately Supo 0800 TIME Regulatory Agency State / Location Page: TEMP in C Residual Chlorine (Y/N) SAMPLE COMBITIONS 모 무 모: 모 뫈 Received on 모 (Y/N) Custody Cooler (Y/N) đ لو Samples Intact (Y/N)





September 23, 2022

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

RE: Project: Yates Pooled Upgradient Rads

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

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

Sincerely,

Micole D'oles

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



(770)734-4200



CERTIFICATIONS

Project: Yates Pooled Upgradient Rads

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



SAMPLE SUMMARY

Project: Yates Pooled Upgradient Rads

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



SAMPLE ANALYTE COUNT

Project: Yates Pooled Upgradient Rads

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
2623277013	YGWA-47	EPA 9315	RMS	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

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

PASI-PA = Pace Analytical Services - Greensburg



Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Lab Sample ID	Client Sample ID					_
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623277001	YGWA-17S					
EPA 9315	Radium-226	0.114 ± 0.0935 (0.148)	pCi/L		09/21/22 16:06	
EPA 9320	Radium-228	C:97% T:NA 0.964 ± 0.357 (0.496) C:79%	pCi/L		09/21/22 11:51	
Total Radium Calculation	Total Radium	T:96% 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)	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	C:91% T:NA 1.34 ± 0.454 (0.623) C:83% T:89%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	1.69% 1.52 ± 0.578 (0.817)	pCi/L		09/22/22 16:49	

REPORT OF LABORATORY ANALYSIS



Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Lab Sample ID	Client Sample ID					
Method	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	
2623277006	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	
2623277007	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	
2623277008	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



Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623277009	YGWA-2I					
EPA 9315	Radium-226	0.0872 ± 0.111 (0.234)	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	C:93% T:NA 0.612 ± 0.309 (0.528) C:83%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	T:94% 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



Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623277013	YGWA-47					
EPA 9315	Radium-226	0.367 ± 0.173 (0.233)	pCi/L	09/	/22/22 08:08	
EPA 9320	Radium-228	C:98% T:NA 0.347 ± 0.308 (0.623) C:81%	pCi/L	09/	/21/22 15:03	
Total Radium Calculation	Total Radium	T:95% 0.714 ± 0.481 (0.856)	pCi/L	09/	/22/22 16:49	
2623277014	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	
2623277015	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)	pCi/L	09/	/22/22 10:18	
EPA 9320	Radium-228	C:97% T:NÁ 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



Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623277017	YGWA-40					
EPA 9315	Radium-226	0.202 ± 0.139 (0.236) C:98% T:NA	pCi/L		09/22/22 10:18	
EPA 9320	Radium-228	0.311 ± 0.325 (0.675) C:77% T:95%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	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) C:80% T:89%	pCi/L		09/21/22 15:04	
Total Radium Calculation	Total Radium	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) C:92% T:NA	pCi/L		09/22/22 12:51	
EPA 9320	Radium-228	0.927 ± 0.394 (0.629) C:81% T:92%	pCi/L		09/21/22 15:04	
Total Radium Calculation	Total Radium	2.12 ± 0.700 (0.816)	pCi/L		09/22/22 16:49	



Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-17S PWS:	Lab ID: 9262 Site ID:	3277001 Collected: 08/30/22 15:40 Sample Type:	Received:	08/31/22 11:03	Matrix: Water	
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	6 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	1 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	9 7440-14-4	



Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-18S PWS:	Lab ID: 9262 Site ID:	3277002 Collected: 08/30/22 10:10 Sample Type:	Received:	08/31/22 11:03	Matrix: Water	
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	9 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	1 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	9 7440-14-4	



Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-18I PWS:	Lab ID: 9262 Site ID:	23277003 Collected: 08/30/22 13:35 Sample Type:	Received:	08/31/22 11:03	Matrix: Water	
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	9 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	2 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	



Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: GWA-2 PWS:	Lab ID: 9262 Site ID:	3277004 Collected: 08/30/22 10:05 Sample Type:	Received:	08/31/22 11:03	Matrix: Water	
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	



Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-5I PWS:	Lab ID: 9262 Site ID:	3277005 Collected: 08/30/22 10:52 Sample Type:	Received:	08/31/22 11:03	Matrix: Water	
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	9 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	2 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	9 7440-14-4	



Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-5D PWS:	Lab ID: 9262 Site ID:	3277006 Collected: 08/30/22 12:05 Sample Type:	Received:	08/31/22 11:03 I	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	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	



Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-21I PWS:	Lab ID: 9262327 Site ID:	77007 Collected: 08/30/22 14:30 Sample Type:	Received:	08/31/22 11:03	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	rvices - 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 Ser	rvices - Greensburg				
Radium-228	EPA 9320	0.959 ± 0.367 (0.535) C:81% T:92%	pCi/L	09/21/22 11:52	2 15262-20-1	
	Pace Analytical Ser	rvices - Greensburg				
Total Radium	Total Radium Calculation	1.27 ± 0.521 (0.737)	pCi/L	09/22/22 16:49	7440-14-4	



Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-1D PWS:	Lab ID: 9262 Site ID:	3277008 Collected: 08/30/22 13:50 Sample Type:	Received:	08/31/22 11:03	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	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	2 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	



Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-2I PWS:	Lab ID: 92623 Site ID:	2277009 Collected: 08/30/22 10:00 Sample Type:	Received:	08/31/22 11:03	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg				-
Radium-226	EPA 9315	0.0872 ± 0.111 (0.234) C:93% T:NA	pCi/L	09/21/22 19:3	9 13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.612 ± 0.309 (0.528) C:83% T:94%	pCi/L	09/21/22 11:52	2 15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.699 ± 0.420 (0.762)	pCi/L	09/22/22 16:49	9 7440-14-4	



Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-30I PWS:	Lab ID: 9262 Site ID:	23277010 Collected: 08/31/22 11:30 Sample Type:	Received:	09/01/22 09:05	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	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	2 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	



Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-14S PWS:	Lab ID: 9262 Site ID:	23277011 Collected: 08/31/22 14:15 Sample Type:	Received:	09/01/22 09:05	Matrix: Water	
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	2 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	3 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	



Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-1I PWS:	Lab ID: 9262 Site ID:	23277012 Collected: 08/31/22 09:10 Sample Type:	Received:	09/01/22 09:05	Matrix: Water	
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	2 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	3 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	



Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-47 PWS:	Lab ID: 9262 Site ID:	3277013 Collected: 08/31/22 09:15 Sample Type:	Received:	09/01/22 09:05	Matrix: Water	
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	3 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	3 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	9 7440-14-4	



Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-4I PWS:	Lab ID: 9262 Site ID:	3277014 Collected: 08/31/22 15:37 Sample Type:	Received:	09/01/22 09:05	Matrix: Water	
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	3 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	3 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	9 7440-14-4	



Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-20S PWS:	Lab ID: 9262327 Site ID:	77015 Collected: 08/31/22 12:57 Sample Type:	Received:	09/01/22 09:05 I	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	rvices - 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 Se	rvices - 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 Se	rvices - Greensburg				
Total Radium	Total Radium Calculation	0.184 ± 0.401 (0.864)	pCi/L	09/22/22 16:49	7440-14-4	



Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-39 PWS:	Lab ID: 9262 Site ID:	23277016 Collected: 08/31/22 13:50 Sample Type:	Received:	09/01/22 09:05	Matrix: Water	
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	3 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	3 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	



Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-40 PWS:	Lab ID: 9262 Site ID:	3277017 Collected: 08/31/22 16:40 Sample Type:	Received:	09/01/22 09:05	Matrix: Water	
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	3 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	3 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	9 7440-14-4	



Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-3I PWS:	Lab ID: 9262 Site ID:	3277018 Collected: 08/31/22 10:54 Sample Type:	Received:	09/01/22 09:05	Matrix: Water	
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	1 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	



Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-3D PWS:	Lab ID: 9262 Site ID:	3277019 Collected: 08/31/22 09:30 Sample Type:	Received:	09/01/22 09:05	Matrix: Water	
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 12:5	1 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	4 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	9 7440-14-4	



QUALITY CONTROL - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

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.



QUALITY CONTROL - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

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.



QUALIFIERS

Project: Yates Pooled Upgradient Rads

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

Date: 09/23/2022 07:28 AM

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Date: 09/23/2022 07:28 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica 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		
2623277006	YGWA-5D	EPA 9315	530872		
2623277007	YGWA-21I	EPA 9315	530872		
2623277008	YGWA-1D	EPA 9315	530872		
2623277009	YGWA-2I	EPA 9315	530872		
2623277010	YGWA-30I	EPA 9315	530872		
2623277011	YGWA-14S	EPA 9315	530872		
2623277012	YGWA-1I	EPA 9315	530872		
2623277013	YGWA-47	EPA 9315	530872		
2623277014	YGWA-4I	EPA 9315	530872		
2623277015	YGWA-20S	EPA 9315	530872		
2623277016	YGWA-39	EPA 9315	530872		
2623277017	YGWA-40	EPA 9315	530872		
2623277018	YGWA-3I	EPA 9315	530872		
2623277019	YGWA-3D	EPA 9315	530872		
2623277001	YGWA-17S	EPA 9320	530871		
2623277002	YGWA-18S	EPA 9320	530871		
2623277003	YGWA-18I	EPA 9320	530871		
2623277004	GWA-2	EPA 9320	530871		
2623277005	YGWA-5I	EPA 9320	530871		
2623277006	YGWA-5D	EPA 9320	530871		
2623277007	YGWA-21I	EPA 9320	530871		
2623277008	YGWA-1D	EPA 9320	530871		
2623277009	YGWA-2I	EPA 9320	530871		
2623277010	YGWA-30I	EPA 9320	530871		
2623277011	YGWA-14S	EPA 9320	530871		
2623277012	YGWA-1I	EPA 9320	530871		
92623277013	YGWA-47	EPA 9320	530871		
92623277014	YGWA-4I	EPA 9320	530871		
92623277015	YGWA-20S	EPA 9320	530871		
2623277016	YGWA-39	EPA 9320	530871		
2623277017	YGWA-40	EPA 9320	530871		
92623277018	YGWA-3I	EPA 9320	530871		
2623277019	YGWA-3D	EPA 9320	530871		
2623277001	YGWA-17S	Total Radium Calculation	534811		
2623277002	YGWA-18S	Total Radium Calculation	534811		
2623277003	YGWA-18I	Total Radium Calculation	534811		
2623277004	GWA-2	Total Radium Calculation	534811		
2623277005	YGWA-5I	Total Radium Calculation	534811		
2623277006	YGWA-5D	Total Radium Calculation	534811		
92623277007	YGWA-21I	Total Radium Calculation	534811		
2623277008	YGWA-1D	Total Radium Calculation	534811		
2623277009	YGWA-2I	Total Radium Calculation	534811		
92623277010	YGWA-30I	Total Radium Calculation	534811		



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Date: 09/23/2022 07:28 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623277011	YGWA-14S	Total Radium Calculation	534811		
92623277012	YGWA-1I	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		

1	Pace	DC#_Title: ENV-F	RM-HUN1-0083 v	01_Sa	mple (ond	ition Upon Receipt
	ARTHUR STORY	Effective Date: 05/12/2	2022				
Could Cool	ratory received in the control of the commercial ody Seal President ody Seal President in the commeter:	Eden Greenwo Client Name: Feet tx Pace Bubble Wrap Correct Add/S	Od Huntersvill OUPS USPS Other: Seals Intact? Bubble Bags Type of Ice ubtract (*C)	Yes None		Projec ent	Mechanicsville Atlanta Kernersville WO#: 92623277 Date/Initials Person Examining Contents: 8/31/22 J Biological Tissue Frozen? Yes No No None Temp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling process has begun
USD	A Regulated : Did samples or	Soil (□ N/A, water sample iginate in a quarantine zone □ Yes □ No) within the United States	: CA, NY,	or SC		Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No
	Chain of Cust	ody Present?	Zves	□No	□n/a	1.	Comments/Discrepancy:
Ì		ved within Hold Time?	Yes	□No	□N/A	2.	
[Short Hold T	ime Analysis (<72 hr.)?	□Yes	No.	□N/A	3.	
[Rush Turn Ar	ound Time Requested?	□Yes	ZNo	□N/A	4,	
	Sufficient Vo	lume?	6Yes	□No	□N/A	5	
	Correct Cont	ainers Used?	-Elyps	□No	□N/A	6.	
ŀ		tainers Used?	Zig/	□No	□N/A		
	Containers Ir		Yes	□No	□N/A	7.	
		alysis: Samples Field Filtered ls Match COC?	? □Yes Yes	□No	N/A	8.	
	-Includes I	Date/Time/ID/Analysis Ma	1.1/2		□N/A	9	
	Headspace in Trip Blank Pr	VOA Vials (>5-6mm)?	Yes	□No	ZNA	-10	
			□Yes	□No	ØN/A	11	
COM		istody Seals Present? E DISCREPANCY	Yes	∐no			Field Data Required? ☐Yes ☐No
CLIENT	NOTIFICATION	n/resolution				Lot IC	of split containers: pH Strip Lot# 1004611
P		er SCURF Review:			Date/Tin	ne:	Date:
							8

Qualtrax ID: 69614

Page 1 of 2



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

Hem#	BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	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) (CI-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (CI-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG15-1 liter Amber H2504 (pH < 2)	AG35-250 mL Amber H2504 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HC! (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mt. VOA H3PO4 (N/A)	DG9S-40 mt. VOA H25O4 (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)	RPSN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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		pH Ac	ljustment Log for Pres	erved Samples	41	
Sample 1D	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

*Check mark top half of box if pH and/or dechlorination is verified and Project # 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

WO#:92623277

PM: NMG

Due Date: 09/22/22

CLIENT: GA-GA Power

	(CI-)						(6<)	-)	Prved	(CI-)		(-i)			VIII-04			-enemon							2	(ci-)		N/A)
	BP4U-125 mL Plastic Unpreserved (N/A)	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 H2504 (pH < 2) (CI)H < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (G-)	WGFU-Wide-mouthed Glass jar Unpres	AG1U-1 liter Amber Unpreserved (N/A)	: 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	H < 2}	(pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)		(A/b)	(N/A)	A)	a	V/GK (3 vials per kit)-VPH/Gas kit (N/A	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Serile Plastic (N/A - lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9	AG0U-100 mL Amber Unpreserved (N/A) (CI-)	(N/A)	DG9U-40 mL Amber Unpreserved vials
	Unprese	Unprese	Unprese	Inpreser	H2SO4 (BP3N-250 mL plastic HNO3 (pH < 2)	ZN Aceta	изон (р	ed Glass j	Unpreser	AG1H-1 liter Amber HCl (pH < 2)	r Unpres	AG1S-1 liter Amber H2SO4 (pH	AG3S-250 mL Amber H2504 (pH < 2)	NH4CI ((N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG95-40 mL VOA H2504 (N/A)	-VPH/G	Plastic (N	Plastic (N		(NH2)2S	r Unpres	VSGU-20 mL Scintillation vials (N/A)	Unprese
	L Plastic	L Plastic	L Plastic	Plastic L	L Plastic	iL plastic	L Plastic	L Plastic	-mouth	Amber	Amber	of Ambe	Amber P	L Amber	L Amber	DG9H-40 mL VOA HCI (N/A)	VOA Na	VOA Ur	VOA H3	VOA H2	s per kit	. Sterile	Serile		L Plastic	L Ambe	Scintilla	. Amber
#2	U-125 m	U-250 m	U-500 m	U-1 liter	S-125 m	N-250 rr	Z-125 m	B-1 25 m	FU-Wide	.U-1 liter	H-1 liter	U-250 m	.S-1 liter	15-250 m	14-250 m	H-40 ml	T-40 mL	U-40 ml	V-40 ml	S-40 mL	K (3 vial	T-125 m	T-250 m	10	R-250 m	JU-100 m	U-20 ml	U-40 ml
Item#	8P4	. BP3	842	891	864	BP3	BP4	864	WG	AG1	AG1	AG3	AG1	AG3	DG3	690	VG9	VG9	950	990	۸/۶	SP5	SPZ	DC.	ВРЗ	AGO	NSG	690
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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 Charvol-Costody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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

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

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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.

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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.

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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 Hu	ntersville	Raleigh	Mech	Atlanta Kernersville
Sample Condition Client Name: Upon Receipt	50 10 4 0	Р	roject#:	MO#: 92623277
- GHIOW	c/			M: NMG Due Date: 09/22/22
Courier: ☐ Fed Ex ☐ UPS ☐ Commercial ☐ Dace	USPS Other:	Clie	nt C	LIENT: GA-GA Power
Custody Seal Present? Yes 100 Seals Inta	ect? Ye	s		Date/Initials Person Examining Contents: 4///22
Packing Material: Bubble Wrap Bubble Thermometer:	Bags Mo	one 🗌 Ot	ner	Biological Tissue Frozen? ☐Yes ☐No ☐N/A
IR Gun ID: 230	Type of Ice:	□Wet □BI	ie 🔲 Nor	, ne
Correction Factor:	(a 0			
Cooler Temp: Add/Subtract (*C)	6.0			should be above freezing to 6°C tamples on ice, cooling process
Cooler Temp Corrected (°C):	3			nas begun
USDA Regulated Soil (N/A, water sample) Did samples originate in a quarantine zone within the Unit	ed States: CA N	NY OF SC	Oid sam	nples originate from a foreign source (internationally,
(check maps)? Yes No	ica states. CA, I	ii, di ac		iples originate from a foreign source (internationally, ig Hawaii and Puerto Rico)? Yes No
				Comments/Discrepancy:
Chain of Custody Present?	■Yes □N		1.	· · · · · · · · · · · · · · · · · · ·
Samples Arrived within Hold Time?	□res □N		2.	
Short Hold Time Analysis (<72 hr.)?	□Yes □X	,	3.	
Rush Turn Around Time Requested?	Z9Y	lo N/A	4.	
Sufficient Volume?	ØYes □N	lo 🔲 N/A	5.	
Correct Containers Used?	Yes DN	lo N/A	6.	
-Pace Containers Used?	Pres ON	io N/A		
Containers Intact?	□res □N		7.	
Dissolved analysis: Samples Field Filtered?	□Yes □N	IO DATA	8.	
Sample Labels Match COC?	ØYes □N	lo □N/A	9.	
-Includes Date/Time/ID/Analysis Matrix:	V			
Headspace in VOA Vials (>5-6mm)?	□Yes □N	lo EN/A	10.	
Trip Blank Present?	□Yes □N		11.	
Trip Blank Custody Seals Present?	□Yes □N	lo N/A		
COMMENTS/SAMPLE DISCREPANCY		Control of the latest and the latest	W. 1919	Field Data Required? Yes No
	·····		ot 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:

Acions Suite 300 (Ci. F. Sulfate) App III 6020B. Za. Ag. Nr. V A	Mall Carse incodes 9/1/22 0800 MM VIII'm Pace 9/1/22 0915 Man VIII'm Pace 9/1/22 1055 SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: NA 1/1 (GAS) SIGNATURE OF SAMPLER: NA 1/1 (GAS)
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Lypn William / Pace 9/1/20 1053 (SAMPLER NAME AND SIGNATURE SAMPLER NAME AND SIGNATURE SIGNATURE of SAMPLER: SIGNATURE OF SAMPLER: SIGNATURE OF
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Required Client Information: Company: GA Power Address: Atlanta, GA App N: Metals 60208: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Bo), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Libium (Li), Molyddenum (Mo), Selenium (Se) 7040A: Mercury (Hg) App III Metals: Boron 6020B, Ca 6010D: App VII 6020B; Zn, Ag, Ni, V unions Suite 300.0 (Cl. F. Sulfate) a ITEM # equested Due Date: 12 YGWA-1D YGWA-3I YGWA-2I YGWA-11 YGWA-40 YGWA-39 YGWA-3D 470.620.6176 Fax One Character per box. (A-Z, 0-91, -) Sample ids must be unique SAMPLE ADDITIONAL COMMENTS 6 MATRIX Dending Water Wass Water Product Sol/Solid OI Wipe Ar Other Required Project Information: Report To: SCS Contacts Copy To: Arcadis Contact Project Name: Lyan RELINQUISHED BY / AFFILIATION SCS Contacts Arcadis Contacts WG WG WG MATRIX CODE (see valid codes to left) ର ଜ ଜ ଜ Millians ର ର SAMPLE TYPE (G=GRAB C=COMP) Plant Yates Pooled Upgradient 0 START 0916 SAMPLER NAME AND SIGNATURE COLLECTED To ch PRINT Name of SAMPLER: / /Arcadis SIGNATURE of SAMPLER: S The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed CHAIN-OF-CUSTODY / Analytical Request Document DATE 1 1 1 1 1 1 ENO 9,1/2 0 10 TIME 1 1 ı 1 1 1 DATE 12 0 SAMPLE TEMP AT COLLECTION Pace Project Manager. Pace Profile #: 1084 Attention: Sol 1056 ()I Ç Ç Ç # OF CONTAINERS Pace Quote: Address: Invoice information: Section C 0300 2 N 2 2 N 2 Unpreserved 2 H2SO4 HNO3 w ω w w w Southern Co Preservatives CHOS HCI NaOH るろう ACCEPTED BY I AFFILIATION Na2S2O3 Nicole D'Oleo Nillian Methanol Other **Analyses Test** Y/N App III / IV Metals × DATE Signed: CI, F, SO4 × × × Porce × × TDS (2540C) × × × × × × × × RAD 9315/9320 0 2/1/2 App i / II (gpysum only) 0 DATE accurately 2000 0800 TIME Regulatory Agency State / Location Page: TEMP in C Residual Chlorine (Y/N) 20 SAMPLE CONDITIONS 모모 Received on 모 웃 모 말 웃 모 모 (Y/N) Custody Sealed đ (Y/N) 60 Samples Intact (Y/N)

	App IV: I Beryllium Lithium (7040A: N	App III M	Anions S		12	⇉	10	9	8	7		4	w	2	1-	ITEM#			Reques	Phone	Email To:	Address:	Company:	Section A	
	App Nr. Metals 60208: Antimony (Sb.), Arsenic (As.), Barium (Ba), Bayfilum (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molyodenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	App III Metals: Boron 6020B, Ca 6010D; App III 6020B; Zn, Ag, Ni, V	Anions Suite 300.0 (CI, F., Sulfate)	ADDITIONAL COMMENTS	YGWA-14S	YGWA-301	YGWA-21I	YGWA-20S	YGWA-18I	YGWA-18S	YOUR ATO	YGWA-5I	YGWA-4I	GWA-2	YGWA-47	AMPLE ID Character per box. (A-Z. 0-91, -) Ne ids must be unique	LATRO			470 620 6176 Fax	anakar@aa.shaaa	L	ny: GA Power	Section A Required Client Information:	
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Samples (V/V) ζ, SAMPLE CONDITIONS (N/A 50 200 cheroc V Received on (Y/N) H 품 품 Ä 품 품 Residual Chlorina (YM) Page: TEMP IN C 098 300 TIME CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT, All relevant fields must be completed accurately. Z DATE Signed: 9/1/2 DATE 1/8 (Aluo wnsAdb) II / I ddy × × 0266/2166 QAS × × × × × × × × × × × × FACE (2540C) ACCEPTED BY / AFFILIATION × × × × × × × × × × FOS '4 '10 App III/IV Metals × × × × × × William. Analyses Test N/A Nicole D'Oleo Methanol Nazszoa 20 HOPN Pace Cuote: Pace Project Manager: Pace Profile #: 1084 ЮН invoice information EONH 3 n 3 3 m Company Name: PRINT Name of SAMPLER: CR. C. SIGNATURE of SAMPLER: DOLLARS H3204 TIME Address 0300 Unpreserved ~ ~ 7 ~ 8 N ~ S s S n 'n 2 s, # OF CONTAINERS 2 2 2 1122 SAMPLER NAME AND SIGNATURE 12/1 SAMPLE TEMP AT COLLECTION 7 DATE TIME I ı 1 1 Purchase Order #: Project Name: Plant Yates Pooled Upgradient Project Number: ONE M. Or weads END DATE A55 COLLECTED Pale 1 ţ RELINQUISHED BY / AFFILIATION 1537 TIME WG G 8/31 125 SCS Contacts Arcadis Contacts START (1)(1) we e 8/31 | DATE 9 9 9 M SAMPLE TYPE (G=GRAB C=COMP) 0 0 G O O O 0 - Mag ₩G WG WG MON NG MATRIX CODE (see valid codes to left) 29 ¥ ¥ ° 9 9 4 9 2 5 Section B App IV: Matais 6020B: Antimony (Sb), Assenic (As), Barium (Ba), Baylium (Ba), Baylium (Bd), Cadmium (Cd), Chromium (Cr). Cobalt (Co), Lead (Pb), Uthium (U), MotyGenum (Mo), Selenium (Se) 7040e. Mercury (Hg) MATRIX Detring Water Wash Water Wash Water Product SolfSolid OF Wipe Au Core ADDITIONAL COMMENTS SAMPLE ID One Character per box. (A-2, 0-9 / , .) Sample lds must be unique ě App III Metals: Boron 6020B, Ca 6010D; App III 6020B: Zn, Ag, Ni, V mions Suite 300.0 (Cl. F, Sulfate) 470.620.6176 Atlanta, GA YGWA-17S YGWA-18S YGWA-20S YGWA-14S YGWA-211 YGWA-5D YGWA-18I YGWA-301 YGWA-47 YGWA-5 YGWA-41 GWA-2 e 10 7 9 12 6 1 9 80 # MHL 2

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Appendix C

Statistical Analysis (February and August/September 2022

Appendix III Statistically Significant Increase Summary (February 2022)

Appendix III Parameter	Monitoring Wells
Boron	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I
Chloride	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S

Appendix III Statistically Significant Increase Summary (August/September 2022)

Appendix III Parameter	Monitoring Wells
Boron	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I
Chloride	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-28S
Total Dissolved Solids (TDS)	YGWC-26I, YGWC-28S

February 2022

GROUNDWATER STATS CONSULTING

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August 31, 2022

Southern Company Services Attn: Ms. Lauren Coker 241 Ralph McGill Blvd NE, Bin 10160 Atlanta, Georgia 30308-3374

Re: Plant Yates Ash Pond 2 (AP-2) February 2022 Statistical Analysis

Dear Ms. Coker,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2022 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates AP-2. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) 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: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, and YGWC-29I

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed Kristina Rayner, Founder and Senior Statistician to Groundwater Stats Consulting.

The CCR program consists of the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- Appendix III (Detection Monitoring) boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV (Assessment Monitoring) antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

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

Combined upgradient well data from all units at Plant Yates are utilized to construct statistical limits for Appendix III and IV parameters. The absence of samples from upgradient wells will affect the sample size of the combined background data set that is used for interwell limits among all units at Plant Yates; however, the calculated limits should not be affected greatly.

For all constituents, a substitution of the most recent reporting limit is used for non-detect data and this generally gives the most conservative limit in each case. 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. Regarding the case of cobalt, due to varying detection limits in individual wells, the most

recent reporting limit of 0.005 mg/L was substituted across all wells for all calculations and reports.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. 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).

Summary of Statistical Methods – Appendix III and IV Parameters:

Based on the background screening performed in 2017 and state and federal regulatory requirements described below, the following methods were selected for Appendix III and IV constituents:

- Appendix III: Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV: Confidence intervals on downgradient well data compared against Groundwater Protections Standards (GWPS) for Appendix IV constituents

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 the parametric prediction 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 prediction 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% nondetects (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 careful screening for any new outliers. 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 Background Update – Appendix III and IV Constituents - Conducted in March 2020

Outlier Analysis

The original background screening was conducted in 2017 by MacStat Consulting. Values identified as outliers were flagged in the database and excluded prior to construction of statistical limits. Interwell prediction limits, combined with a 1-of-2 resample plan, were recommended. During the March 2020 1st semi-annual analysis, data were screened for the purpose of updating the statistical limits as described below.

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 upgradient wells for Appendix III and all wells for Appendix IV parameters are formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, a couple outliers were identified. While this is not the case in the present data set, 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.

Only one of the outliers identified by Tukey's method (combined radium 226 + 228 in downgradient well YGWC-26I) was flagged in the database as all other values were either similar to remaining measurements within the same well and neighboring wells, or the values were reported non-detects. 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 will 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. When the reporting limit was higher than the CCR-rule specified levels discussed below, non-detects were substituted with one half the reporting limit. A summary of outlier results follows this letter (Figure C).

<u>Seasonality</u>

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

<u>Trend Test Evaluation</u>

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall test was used to evaluate all data at upgradient wells for Appendix III parameters and all wells for Appendix IV parameters to identify statistically significant increasing or decreasing. 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 than current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses for the Appendix III and IV parameters showed statistically significant decreasing trends for a handful of constituents and statistically significant increasing trends for calcium, cobalt, combined radium 226 + 228, and sulfate. Most of the trends noted were relatively low in magnitude when compared to average concentrations, and the background time period is short with only three years of record, making it difficult to separate trends from normal year-to-year variation; therefore, no adjustments were made to the data sets. If the observed decreasing or increasing trends persist over a longer time frame, some records may need to be truncated.

Statistical Analysis of Appendix III Parameters – February 2022

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. No new outliers were flagged for Appendix III parameters.

The reported measurement of 451 mg/L for sulfate in well YGWC-27S during the March 2021 sample event was considerably higher than remaining measurements at this well. This value was not flagged as outlier, but if further review demonstrates this value to be anomalous, it will be flagged as an outlier in the database. 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

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical pooled upgradient well data through February 2022 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The February 2022 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

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 a resample confirms the initial exceedance, a statistically significant increase (SSI) is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Prediction limit exceedances were noted for the following Appendix III well/constituent pairs:

Boron: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I,

YGWC-28S, and YGWC-29I

• Chloride: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, and

YGWC-28S

<u>Trend Test Evaluation – Appendix III</u>

When prediction limit exceedances are identified in 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 (Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of natural variability in groundwater unrelated to practices at the site. Both a summary and complete graphical results of the trend tests follow this report. Statistically significant trends were identified for the following downgradient and associated upgradient well/constituent pairs:

Increasing:

• Chloride: YGWA-17S and YGWA-20S (both upgradient)

Decreasing:

Boron: YGWA-40 (upgradient), YGWC-26I, and YGWC-29I
 Chloride: YGWA-3D (upgradient), YGWA-3I (upgradient),

YGWA-47 (upgradient), YGWA-5D (upgradient), YGWC-26S,

YGWC-27S, and YGWC-28I

A complete list of trend test results and all statistically significant increasing and decreasing trends may be found following this letter in the Trend Test Summary Table.

Statistical Analysis of Appendix IV Parameters – February 2022

For analysis of Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs that have 100% non-detects or trace values below the reporting limits do not require analysis. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis.

A high value of 0.072 mg/L for cobalt at upgradient well GWA-2 from the February 2022 sample event was flagged in order to maintain statistical limits that are conservative (i.e.

lower) from a regulatory perspective. The reported measurements since August 2020 were previously flagged as they 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 prediction 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 through February 2022 for Appendix IV constituents (Figure F). 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 (or false positive rate) 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 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). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, 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, Federal and State CCR Rules specify levels 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

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals using data through February 2022 were constructed for each of the Appendix IV constituents in each downgradient well with 4 or more samples (Figure H).

The Sanitas software was used to calculate the tolerance limits and the confidence intervals, either parametric or nonparametric, as appropriate. Confidence intervals were compared to the GWPS prepared as described above. 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. Summaries of the confidence interval results, along with graphical comparison against GWPS follow this letter. No exceedances were identified.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Yates AP-2. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Andrew T. Collins

Project Manager

Kristina L. Rayner

Groundwater Statistician

Kristina Rayner

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

100% Non-Detects: Appendix IV Downgradient

Analysis Run 4/27/2022 1:37 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Antimony (mg/L) YGWC-28I, YGWC-28S

Beryllium (mg/L) YGWC-26I, YGWC-28I, YGWC-28S, YGWC-29I

Cadmium (mg/L) YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S

Cobalt (mg/L) YGWC-26I

Lead (mg/L) YGWC-27I, YGWC-28I

Lithium (mg/L) YGWC-26S

Molybdenum (mg/L) YGWC-26I, YGWC-26S, YGWC-27S

Selenium (mg/L) YGWC-27I, YGWC-27S, YGWC-29I

Thallium (mg/L) YGWC-26I, YGWC-27I, YGWC-28I, YGWC-28S, YGWC-29I

Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 3/21/2022, 12:48 PM

Constituent	Well	Upper Lim	Lower Lin	n.Date	Observ.	Sig. Bg N Bg	g Mean	Std. Dev.	%NDs	ND Adj.	Transforn	n Alpha	Method
Boron (mg/L)	YGWC-26I	0.16	n/a	2/10/2022	0.79	Yes 331 n/	/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	2/10/2022	0.79	Yes 331 n/	/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	2/10/2022	2.5	Yes 331 n/	/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	2/8/2022	1.1	Yes 331 n/	/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	2/8/2022	2.4	Yes 331 n/	/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	2/8/2022	2.4	Yes 331 n/	/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29I	0.16	n/a	2/8/2022	0.71	Yes 331 n/	/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	10.9	n/a	2/10/2022	15.4	Yes 331 n/	/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	10.9	n/a	2/10/2022	14	Yes 331 n/	/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	10.9	n/a	2/10/2022	13.1	Yes 331 n/	/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	10.9	n/a	2/8/2022	13	Yes 331 n/	/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	10.9	n/a	2/8/2022	15.2	Yes 331 n/	/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	10.9	n/a	2/8/2022	18.3	Yes 331 n/	/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 3/21/2022, 12:48 PM

Constituent	Well	Upper Lin	n. Lower Li	m.Date	Observ.	Sig. Bg N Bg Mean	Std. Dev.	%NDs ND Adj.	Transforr	n Alpha	Method
Boron (mg/L)	YGWC-26I	0.16	n/a	2/10/2022	0.79	Yes 331 n/a	n/a	48.04 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	2/10/2022	0.79	Yes 331 n/a	n/a	48.04 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	2/10/2022	2.5	Yes 331 n/a	n/a	48.04 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	2/8/2022	1.1	Yes 331 n/a	n/a	48.04 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	2/8/2022	2.4	Yes 331 n/a	n/a	48.04 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	2/8/2022	2.4	Yes 331 n/a	n/a	48.04 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29I	0.16	n/a	2/8/2022	0.71	Yes 331 n/a	n/a	48.04 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26I	37	n/a	2/10/2022	16.4	No 331 n/a	n/a	0.9063 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	37	n/a	2/10/2022	11.6	No 331 n/a	n/a	0.9063 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	37	n/a	2/10/2022	27.4	No 331 n/a	n/a	0.9063 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	2/8/2022	27.2	No 331 n/a	n/a	0.9063 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	37	n/a	2/8/2022	31.8	No 331 n/a	n/a	0.9063 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	37	n/a	2/8/2022	26.7	No 331 n/a	n/a	0.9063 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29I	37	n/a	2/8/2022	9.3	No 331 n/a	n/a	0.9063 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	10.9	n/a	2/10/2022	15.4	Yes 331 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	10.9	n/a	2/10/2022	14	Yes 331 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	10.9	n/a	2/10/2022	13.1	Yes 331 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	10.9	n/a	2/8/2022	13	Yes 331 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	10.9	n/a	2/8/2022	15.2	Yes 331 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	10.9	n/a	2/8/2022	18.3	Yes 331 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-29I	10.9	n/a	2/8/2022	5.5	No 331 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-26I	0.68	n/a	2/10/2022	0.1ND	No 400 n/a	n/a	67.5 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	0.68	n/a	2/10/2022	0.1ND	No 400 n/a	n/a	67.5 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	0.68	n/a	2/10/2022	0.059J	No 400 n/a	n/a	67.5 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	0.68	n/a	2/8/2022	0.087J	No 400 n/a	n/a	67.5 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	0.68	n/a	2/8/2022	0.063J	No 400 n/a	n/a	67.5 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	0.68	n/a	2/8/2022	0.14	No 400 n/a	n/a	67.5 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29I	0.68	n/a	2/8/2022	0.053J	No 400 n/a	n/a	67.5 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-26I	8.39	4.4	2/10/2022	5.84	No 410 n/a	n/a	0 n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-26S	8.39	4.4	2/10/2022	5.31	No 410 n/a	n/a	0 n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27I	8.39	4.4	2/10/2022	6.23	No 410 n/a	n/a	0 n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27S	8.39	4.4	2/8/2022	6.22	No 410 n/a	n/a	0 n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28I	8.39	4.4	2/8/2022	6.34	No 410 n/a	n/a	0 n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28S	8.39	4.4	2/8/2022	6.3	No 410 n/a	n/a	0 n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-29I	8.39	4.4	2/8/2022	5.88	No 410 n/a	n/a	0 n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26I	160	n/a	2/10/2022	81.8	No 331 n/a	n/a	6.042 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26S	160	n/a	2/10/2022	86.5	No 331 n/a	n/a	6.042 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27I	160	n/a	2/10/2022	2.4	No 331 n/a	n/a	6.042 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27S	160	n/a	2/8/2022	16.3	No 331 n/a	n/a	6.042 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28I	160	n/a	2/8/2022	8.1	No 331 n/a	n/a	6.042 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28S	160	n/a	2/8/2022	10.5	No 331 n/a	n/a	6.042 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-29I	160	n/a	2/8/2022	22.9	No 331 n/a	n/a	6.042 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26I	221.1	n/a	2/10/2022	207	No 331 10.06	2.585	0.6042 None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26S	221.1	n/a	2/10/2022		No 331 10.06	2.585	0.6042 None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27I	221.1	n/a	2/10/2022		No 331 10.06	2.585	0.6042 None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27S	221.1	n/a	2/8/2022	159	No 331 10.06	2.585	0.6042 None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28I	221.1	n/a	2/8/2022	206	No 331 10.06	2.585	0.6042 None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	221.1	n/a	2/8/2022	216	No 331 10.06	2.585	0.6042 None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-29I	221.1	n/a	2/8/2022	120	No 331 10.06	2.585	0.6042 None	sqrt(x)	0.001075	Param Inter 1 of 2

Appendix III Trend Test Summary - Significant Results

	Plant Yates	Client: Southern Company	Data: Yates /	Ash Pond	2 Printed	3/21/2	2022, 12	2:53 PM				
Constituent	Well		Slope	Calc.	Critical	Sig.	<u>N</u>	%NDs	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Boron (mg/L)	YGWC-26I		-0.04006	-69	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-29I		-0.02921	-79	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)		-0.01631	-64	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)		-0.05275	-85	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)		-0.03927	-78	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26S		-0.6877	-93	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-27S		-1.358	-121	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-28I		-0.5198	-92	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)		-0.4996	-72	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg	1)	0.5046	109	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg	1)	0.1624	93	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	ı	-0.8339	-113	-68	Yes	18	0	n/a	n/a	0.01	NP

Appendix III Trend Test Summary - All Results

Client: Southern Company Data: Yates Ash Pond 2 Printed 3/21/2022, 12:53 PM Constituent Calc. Critical Sig. N %NDs Normality <u>Xform</u> <u>Alpha</u> Method Boron (mg/L) YGWA-14S (bg) -0.0004307 -27 -68 No 18 11.11 n/a n/a 0.01 NP Boron (mg/L) YGWA-1D (bg) 0.0003452 18 33.33 0.01 NP 22 68 No n/a n/a 0 NP Boron (mg/L) YGWA-1I (bg) -13 -68 No 18 72.22 0.01 n/a n/a Boron (mg/L) YGWA-2I (bg) 0 -10 -68 No 18 77.78 n/a n/a 0.01 NΡ Boron (mg/L) YGWA-30I (bg) -22 -68 18 83.33 0.01 NP No n/a YGWA-3D (bg) 0 -8 18 55.56 0.01 ΝP Boron (mg/L) -68 No Boron (mg/L) YGWA-3I (bg) 0 -19 -68 No 18 88.89 n/a n/a 0.01 NP Boron (mg/L) YGWC-26I -0.04006 -69 -68 Yes 18 0 n/a n/a 0.01 NP Boron (mg/L) YGWC-26S 0.01343 45 68 No 18 0 n/a n/a 0.01 NP YGWC-27I 0.06976 49 0 0.01 NP Boron (mg/L) 68 No 18 n/a n/a NP Boron (mg/L) YGWC-27S -0.03227 -34 -68 18 0 0.01 No n/a n/a YGWC-28I 0 0.01 NP Boron (mg/L) -68 18 -1 No n/a n/a Boron (mg/L) YGWC-28S 0.002972 11 No 18 0 n/a n/a 0.01 NP YGWC-29I -0.02921 Boron (mg/L) -79 Yes 18 0 n/a n/a 0.01 ΝP Boron (mg/L) YGWA-47 (bg) -0.0007235 -42 -53 No 15 0 n/a 0.01 NΡ n/a Boron (mg/L) YGWA-17S (bg) 0.00005921 8 68 No 18 11.11 n/a n/a 0.01 NP NP Boron (mg/L) YGWA-18I (bg) 0 -26 -68 No 18 77.78 n/a n/a 0.01 Boron (mg/L) YGWA-18S (bg) 0.0001172 18 NP 14 68 No 22.22 n/a n/a 0.01 YGWA-20S (ba) 0 -11 0.01 NP Boron (ma/L) -68 No 18 88.89 n/a n/a Boron (mg/L) YGWA-21I (bg) -46 -68 No 18 61.11 0.01 NP n/a n/a Boron (mg/L) YGWA-39 (bg) 0.007949 41 53 15 0.01 NΡ No 6.667 n/a n/a YGWA-40 (bg) -0.01631 -64 -53 15 0.01 ΝP Boron (mg/L) Yes 0 n/a Boron (mg/L) YGWA-4I (bg) 0 -5 -68 No 18 66.67 n/a n/a 0.01 NΡ Boron (mg/L) YGWA-5D (bg) 0.0003037 26 68 No 18 11.11 n/a 0.01 NP Boron (mg/L) YGWA-5I (ba) n -32 -68 Nο 18 61 11 n/a n/a 0.01 NP GWA-2 (bg) 0 NP Boron (mg/L) 17 16 62.5 0.01 58 No n/a n/a YGWA-14S (bg) 0.1623 47 0 0.01 NP Chloride (mg/L) 68 No 18 n/a n/a YGWA-1D (bg) -0.01968 -51 0 NP Chloride (mg/L) -68 No 18 n/a 0.01 n/a -0.02497 NP Chloride (mg/L) YGWA-1I (bg) -49 No 18 0 n/a n/a 0.01 YGWA-2I (bg) -0.03702 0 NP Chloride (mg/L) No 18 0.01 Chloride (mg/L) YGWA-30I (bg) 0 -15 -68 No 18 0 n/a n/a 0.01 NP Chloride (mg/L) YGWA-3D (bg) -0.05275 -85 -68 Yes 18 0 n/a n/a 0.01 NP Chloride (mg/L) YGWA-3I (bg) -0.03927 -78 -68 Yes 18 0 n/a n/a 0.01 NP NP Chloride (mg/L) YGWC-26I -0.4093 -64 -68 No 18 0 n/a n/a 0.01 YGWC-26S -0.6877 NP Chloride (mg/L) 18 0 -93 -68 0.01 Yes n/a n/a Chloride (mg/L) YGWC-27I 0 -17 -68 No 18 0 n/a 0.01 NΡ n/a Chloride (mg/L) YGWC-27S -121 -68 18 0 n/a 0.01 NP Yes n/a Chloride (mg/L) YGWC-28I -0.5198 -92 -68 18 0 0.01 NP n/a Chloride (mg/L) YGWC-28S -0.1931 -31 -68 No 18 0 n/a n/a 0.01 NP Chloride (mg/L) YGWA-47 (bg) -0.4996 -72 -53 Yes 15 0 n/a n/a 0.01 NP Chloride (mg/L) YGWA-17S (bg) 0.5046 109 68 Yes 18 0 n/a n/a 0.01 NP 0 NP Chloride (mg/L) YGWA-18I (bg) 0.0841 61 68 No 18 n/a n/a 0.01 0.1771 NP Chloride (ma/L) YGWA-18S (ba) 67 0 0.01 68 No 18 n/a n/a Chloride (mg/L) YGWA-20S (bg) 0.1624 93 68 0 NP 18 0.01 Yes n/a n/a YGWA-21I (bg) -0.1442 -57 0 NP Chloride (mg/L) -68 n/a n/a 0.01 Chloride (mg/L) YGWA-39 (bg) 0.6239 40 53 No 15 0 n/a n/a 0.01 ΝP Chloride (mg/L) YGWA-40 (bg) 0.2865 51 53 No 15 0 n/a 0.01 NΡ n/a Chloride (mg/L) YGWA-4I (bg) 0.08324 35 68 No 18 0 n/a n/a 0.01 NP YGWA-5D (bg) Chloride (mg/L) -0.8339 -113 -68 Yes 18 0 n/a n/a 0.01 NP YGWA-5I (bg) 0 Chloride (mg/L) NP 1 68 No 18 0 n/a n/a 0.01 Chloride (mg/L) GWA-2 (bg) 0.2307 58 16 0 0.01 NP 58 No n/a n/a

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/27/2022, 1:31 PM

Constituent	Well	Upper Lim	. Lower Lim	. Date	Observ	/. <u>Sig. Bg N</u>	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	n/a 353	n/a	n/a	87.25	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 401	n/a	n/a	75.06	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.071	n/a	n/a	n/a	n/a 401	n/a	n/a	2.743	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a 385	n/a	n/a	80.26	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.00063	n/a	n/a	n/a	n/a 385	n/a	n/a	95.58	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	n/a 353	n/a	n/a	79.6	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a 396	n/a	n/a	69.19	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 380	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 400	n/a	n/a	67.5	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	n/a 355	n/a	n/a	84.51	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a 380	n/a	n/a	26.32	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a 309	n/a	n/a	93.2	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	n/a 344	n/a	n/a	60.17	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 383	n/a	n/a	91.91	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a 319	n/a	n/a	96.87	n/a	n/a	NaN	NP Inter(NDs)

YATES	ASH POND 2	2 GWPS		
		CCR-Rule	Background	
Constituent Name	MCL	Specified	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)		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)		0.015	0.0013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)		0.1	0.014	0.1
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 or CCR Rule Specified Level

^{*}MCL = Maximum Contaminant Level

^{*}CCR = Coal Combustion Residual

^{*}GWPS = Groundwater Protection Standard

Confidence Intervals - All Results (No Significant)

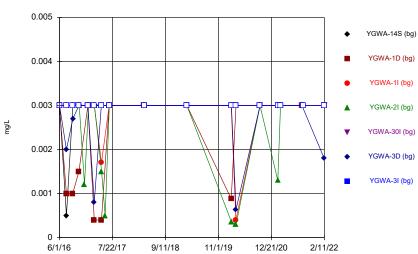
Client: Southern Company Data: Yates Ash Pond 2 Printed 4/27/2022, 1:39 PM Constituent Well Compliance Std. Dev. %NDs ND Adj. Transform Alpha Upper Lim. Lower Lim. N Mean Method Antimony (mg/L) 0.003 0.006 No 17 0.002712 0.0008121 88.24 None No 0.01 NP (NDs) 0.003 YGWC-26S 0.0017 0.002841 0.0004487 0.01 NP (NDs) Antimony (mg/L) 0.006 No 17 88.24 None No Antimony (mg/L) YGWC-27I 0.003 0.00033 0.006 No 17 0.002843 0.0006476 94.12 None No 0.01 NP (NDs) Antimony (mg/L) YGWC-27S 0.003 0.0003 0.006 No 17 0.002841 0.0006548 94.12 None No 0.01 NP (NDs) YGWC-29I 0.003 0.0013 0.006 17 0.0029 NP (NDs) Antimony (mg/L) Nο 0.0004123 94 12 None Nο 0.01 Arsenic (mg/L) YGWC-26I 0.005 0.0028 0.01 No 21 0.004895 0.0004801 95.24 0.01 NP (NDs) YGWC-26S 0.005 0.0032 0.01 21 0.004914 Arsenic (mg/L) No 0.0003928 95.24 0.01 NP (NDs) None No Arsenic (mg/L) YGWC-27I 0.005 0.0006 0.01 No 21 0.003307 0.002126 57.14 None Nο 0.01 NP (NDs) Arsenic (mg/L) YGWC-27S 0.005 0.0019 0.01 No 21 0.004852 0.0006765 95.24 None No 0.01 NP (NDs) YGWC-28I 0.005 0.0021 0.01 No 21 0.004862 0.0006328 95.24 0.01 NP (NDs) Arsenic (ma/L) None No YGWC-28S 0.005 0.0007 0.01 No 21 0.00332 0.002123 57.14 NP (NDs) 0.01 0.005 0.01 No 21 0.000371 95.24 No 0.01 NP (NDs) Arsenic (mg/L) None Barium (mg/L) YGWC-26I 0.06607 0.0627 2 No 21 0.06439 0.003054 0 None No 0.01 Param. Barium (mg/L) YGWC-26S 0.02872 0.02632 2 No 21 0.02752 0.002175 0 None No 0.01 Param. Barium (mg/L) YGWC-27I 0.08 0.063 2 No 21 0.07016 0.007752 0 None No 0.01 NP (normality) 0.1033 2 Barium (mg/L) YGWC-27S 0.09001 Nο 21 0.09663 0.01201 n None Nο 0.01 Param 0.08942 Barium (mg/L) YGWC-28I 0.08354 2 No 21 0.005329 0 0.01 2 YGWC-28S 0.2217 0.1958 21 0.03757 0 Barium (mg/L) No 0.2043 x^3 0.01 Param. None 0.01 Barium (mg/L) YGWC-29I 0.0741 0.057 2 No 21 0.07251 0.03261 0 NP (normality) None No Beryllium (mg/L) YGWC-26S 0.0002 0.0001 0.004 No 19 0.0001821 0.0001199 10.53 None No 0.01 NP (normality) 0.00023 NP (normality) Beryllium (mg/L) YGWC-27I 0.00013 0.004 No 19 0.0002235 0.0001312 15.79 None No 0.01 0.0004566 0.0001301 Beryllium (mg/L) YGWC-27S 0.0005 0.00011 0.004 No 19 89.47 0.01 NP (NDs) NP (normality) Cadmium (mg/L) YGWC-28I 0.00043 0.0001 0.005 No 19 0.0002479 0.0001701 10.53 No 0.01 Cadmium (mg/L) YGWC-28S 0.0005 0.00048 0.005 No 19 0.0004989 0.000004588 94.74 None No 0.01 NP (NDs) Cadmium (mg/L) YGWC-29I 0.0002257 0.0001389 0.005 No 19 0.0002526 0.0001256 15.79 Kaplan-Meier 0.01 Param. Chromium (ma/L) YGWC-26I 0.005 0.00065 0.1 No 19 0.003392 0.002155 57.89 NP (NDs) None No 0.01 Chromium (mg/L) YGWC-26S 0.002127 0.001045 0.1 No 19 0.002578 0.001725 21.05 Kaplan-Meier In(x) 0.01 Param Chromium (mg/L) YGWC-27I 0.1 No 94.74 Kaplan-Meier No 0.01 NP (NDs) Chromium (mg/L) YGWC-27S 0.015 19 0.004655 0.003012 NP (NDs) 0.0027 0.1 No 68.42 Kaplan-Meier No 0.01 Chromium (mg/L) YGWC-28I 0.005 0.0005 0.1 No 19 0.004285 0.001697 84.21 Kaplan-Meier No 0.01 NP (NDs) Chromium (mg/L) YGWC-28S 0.005 0.0006 0.1 19 0.004294 0.001675 84.21 Kaplan-Meier No 0.01 NP (NDs) No 0.004763 Chromium (ma/L) YGWC-29I 0.005 0.0005 0.1 19 0.001032 94.74 0.01 NP (NDs) No Kaplan-Meier No 0.002343 YGWC-26S 0.002719 0.001886 0.035 21 Cobalt (mg/L) No 0.0008244 4.762 0.01 Param YGWC-27I 0.0147 0.003357 0.035 21 Cobalt (mg/L) No 0.02581 0 None In(x) 0.01 Param. Cobalt (mg/L) YGWC-27S 0.0026 0.0022 0.035 No 21 0.002448 0.0006416 4.762 None No 0.01 NP (normality) Cobalt (mg/L) YGWC-28I 0.005 0.00042 0.035 No 0.004782 0.0009994 95.24 No 0.01 NP (NDs) 0.0012 0.00091 Cobalt (mg/L) YGWC-28S 0.035 No 21 0.001378 0.001211 9.524 None No 0.01 NP (normality) Cobalt (mg/L) YGWC-29I 0.005 0.00094 0.035 No 21 0.003955 0.001918 76.19 0.01 NP (NDs) No Combined Radium 226 + 228 (pCi/L) 1.066 6.92 No 5 0.01 Param. No Combined Radium 226 + 228 (pCi/L) YGWC-26S 0.8492 0.5341 21 6.92 No 0.6917 0.2857 0.01 Param. 4.762 None No Combined Radium 226 + 228 (pCi/L) YGWC-27I 3.883 2.537 6.92 No 21 3.21 1.221 0.01 0 None No Param. Combined Radium 226 + 228 (pCi/L) YGWC-27S 1.041 0.6603 6.92 No 21 0.8504 0.3446 0 0.01 None No Param. Combined Radium 226 + 228 (pCi/L) YGWC-28I 0.948 0.261 6.92 No 21 0.6556 0.3485 4.762 None No 0.01 NP (normality) Combined Radium 226 + 228 (pCi/L) YGWC-28S 0.9441 0.5386 6.92 No 21 0.7413 0.3675 4.762 0.01 Combined Radium 226 + 228 (pCi/L) YGWC-29I 6.92 21 1.094 0.6509 No 0.8723 0.4013 4.762 No 0.01 Param. Fluoride (mg/L) YGWC-26I 0.1 0.064 4 No 22 0.08409 0.02065 45.45 None No 0.01 NP (normality) Fluoride (mg/L) YGWC-26S 0.16 0.044 4 No 0.1302 0.09494 72.73 No 0.01 NP (NDs) NP (NDs) Fluoride (ma/L) YGWC-27I 0.1 0.07 4 No 22 0.09055 0.02574 54.55 None No 0.01 Fluoride (mg/L) YGWC-27S 0.1919 0.09792 4 No 22 0.1575 0.1014 18.18 Kaplan-Meier sqrt(x) 0.01 Param. Fluoride (mg/L) YGWC-28I No 0.07937 22.73 No 0.01 NP (normality) 22 Fluoride (mg/L) YGWC-28S 0.2565 0.1516 No 0.204 0.09764 9.091 None No 0.01 Param. YGWC-29I 0.08932 Fluoride (mg/L) 0.05868 4 No 22 0.08573 0.03079 31.82 Kaplan-Meier 0.01 YGWC-26I 0.001 0.000059 0.015 17 0.0008888 0.0003138 NP (NDs) Lead (mg/L) No 88.24 None 0.01 No Lead (mg/L) YGWC-26S 0.001 0.00008 0.015 No 17 0.0007265 0.0004369 70.59 None No 0.01 NP (NDs) Lead (mg/L) YGWC-27S 0.001 0.015 No 0.0007881 0.0003597 64.71 0.01 NP (NDs) YGWC-28S 0.001 0.00007 0.015 No 17 0.0007244 0.0004402 70.59 0.01 NP (NDs) Lead (mg/L) None Nο Lead (mg/L) YGWC-29I 0.001 0.00016 0.015 No 0.0008424 0.0003513 82.35 None Nο 0.01 NP (NDs)

Confidence Intervals - All Results (No Significant)

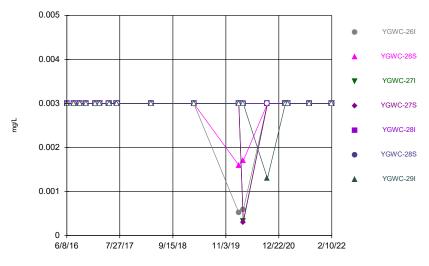
	PI	ant Yates C	lient: Southern	Company [Data: Ya	ates	Ash Pond 2	Printed 4/27/2022	!, 1:39 P	M			
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	<u>N</u>	Mean	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Lithium (mg/L)	YGWC-26I	0.007307	0.006607	0.04	No	21	0.006957	0.0006345	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.0101	0.007874	0.04	No	21	0.008986	0.002015	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.0013	0.04	No	21	0.02724	0.008707	90.48	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.0071	0.00668	0.04	No	21	0.00689	0.0003807	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.04	No	21	0.02882	0.00539	95.24	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29I	0.0066	0.0053	0.04	No	21	0.00711	0.005308	4.762	None	No	0.01	NP (normality)
Mercury (mg/L)	YGWC-26I	0.0002	0.000051	0.002	No	15	0.0001801	0.00005243	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-26S	0.0002	0.000066	0.002	No	15	0.000181	0.00005024	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27I	0.0002	0.000054	0.002	No	15	0.0001799	0.00005298	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27S	0.0002	0.000049	0.002	No	15	0.0001793	0.00005456	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28I	0.0002	0.000048	0.002	No	15	0.0001899	0.00003925	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28S	0.0002	0.000052	0.002	No	15	0.0001901	0.00003821	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-29I	0.0002	0.000047	0.002	No	15	0.0001791	0.00005526	86.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-27I	0.01	0.0014	0.1	No	21	0.005662	0.004282	47.62	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.1	No	21	0.004995	0.004443	42.86	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00083	0.1	No	21	0.007795	0.004042	76.19	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29I	0.01	0.00083	0.1	No	21	0.009563	0.002001	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0034	0.0018	0.05	No	19	0.002574	0.001081	10.53	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	No	19	0.004174	0.001658	78.95	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	19	0.0048	0.0008718	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	19	0.004789	0.0009177	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-26S	0.001	0.000057	0.002	No	15	0.0008741	0.0003322	86.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-27S	0.001	0.0001	0.002	No	15	0.000642	0.0004539	60	None	No	0.01	NP (NDs)

FIGURE A.



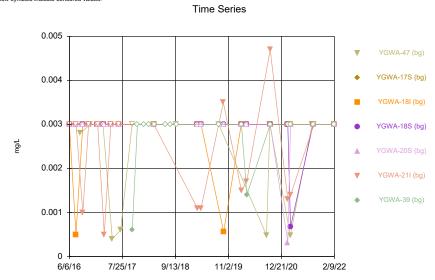


Constituent: Antimony Analysis Run 4/27/2022 1:21 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



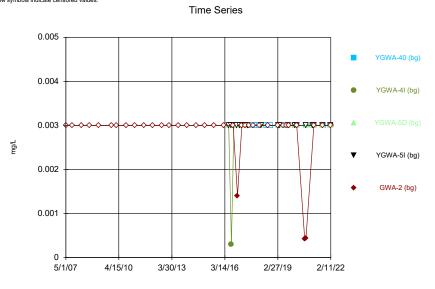
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Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Antimony Analysis Run 4/27/2022 1:21 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

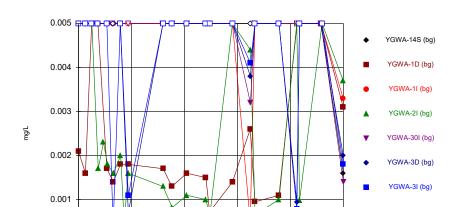
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Antimony Analysis Run 4/27/2022 1:21 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

6/1/16

7/22/17



Time Series

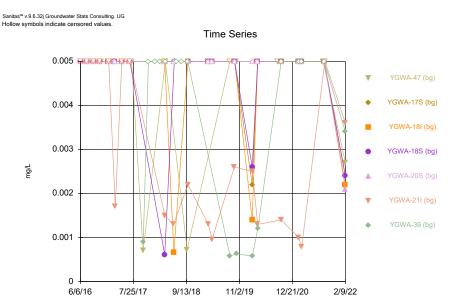
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

11/1/19

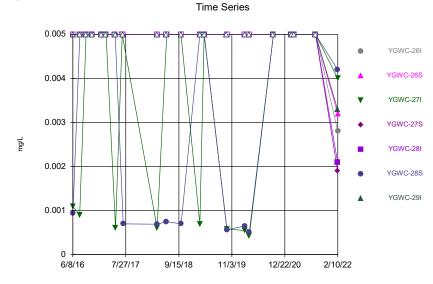
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9/11/18

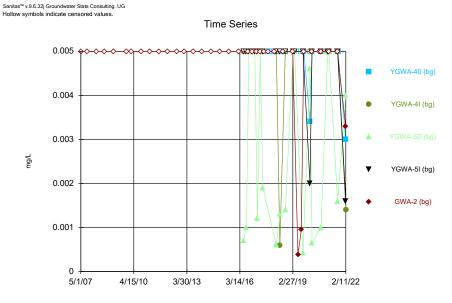
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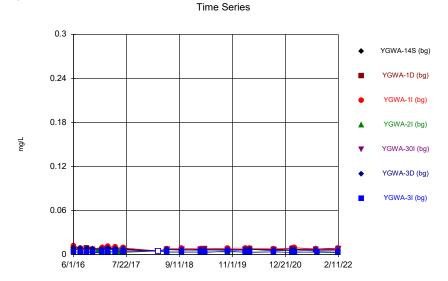
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



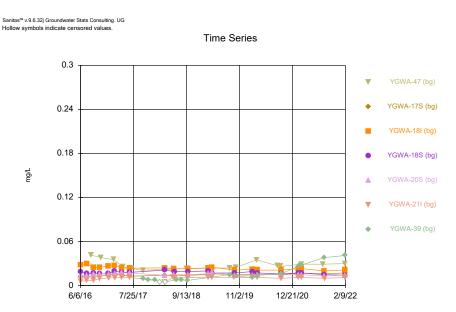
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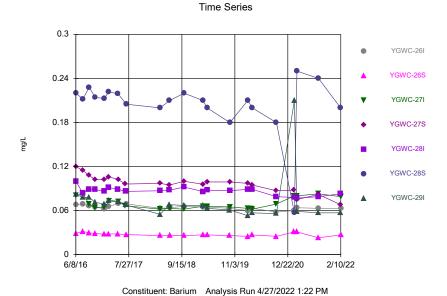
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



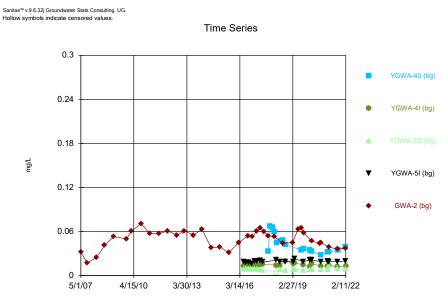
Constituent: Barium Analysis Run 4/27/2022 1:21 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Barium Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

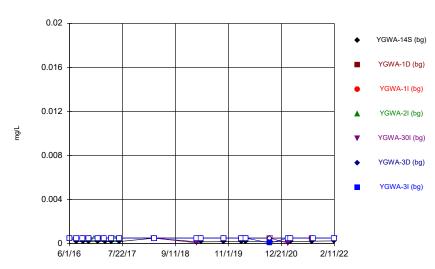


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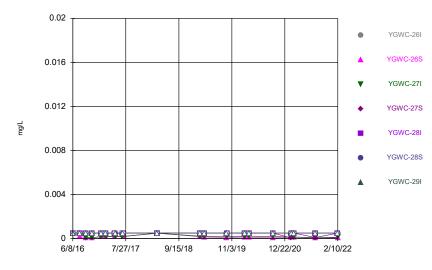
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2





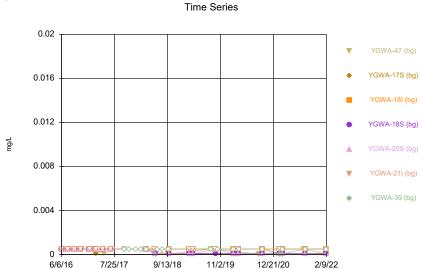
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



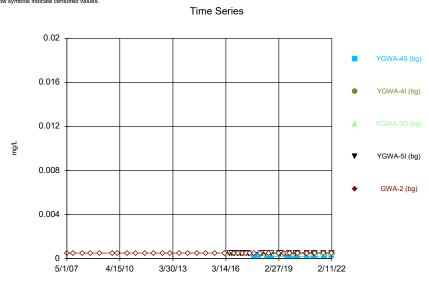
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

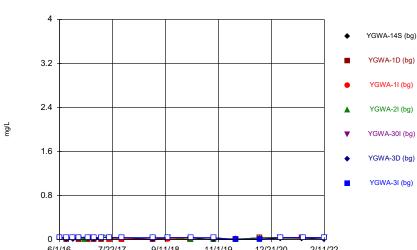
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

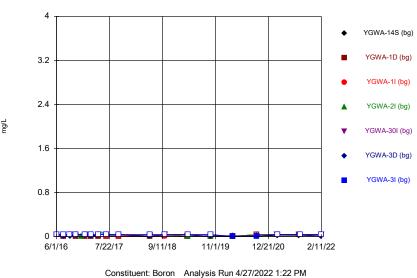


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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

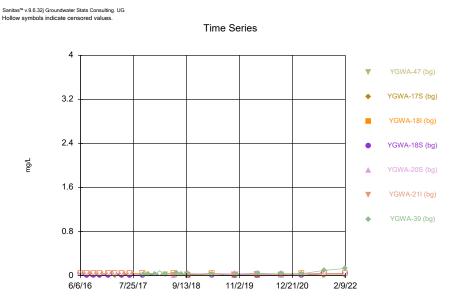
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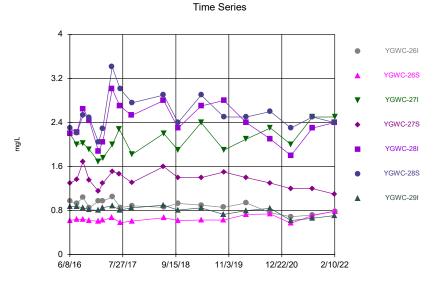


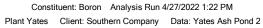


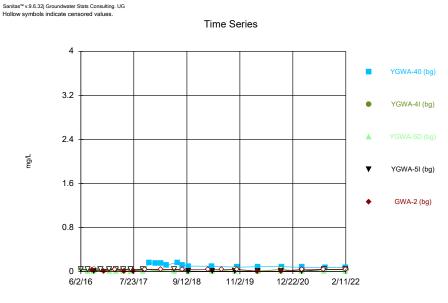




Constituent: Boron Analysis Run 4/27/2022 1:22 PM Plant Yates Client: Southern Company Data: Yates Ash Pond 2

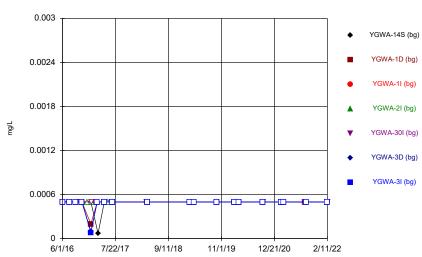




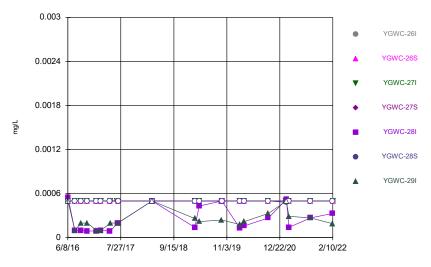


Constituent: Boron Analysis Run 4/27/2022 1:22 PM Plant Yates Client: Southern Company Data: Yates Ash Pond 2



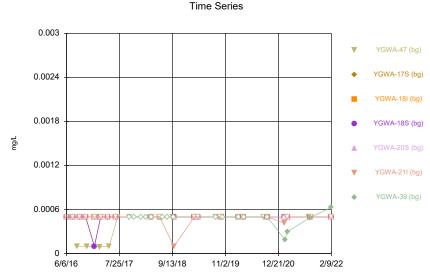


Constituent: Cadmium Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



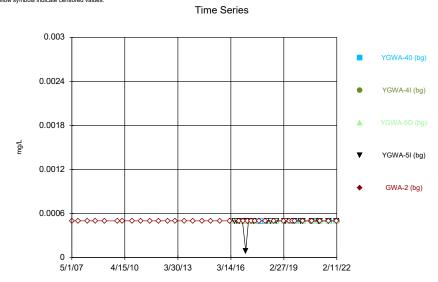
Constituent: Cadmium Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

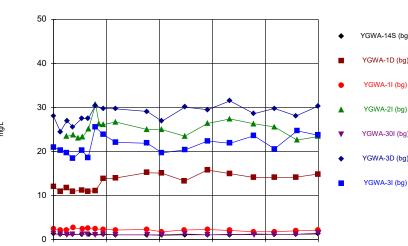


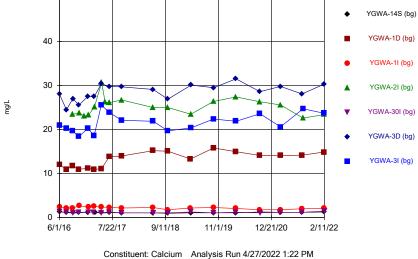
Constituent: Cadmium Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Cadmium Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2





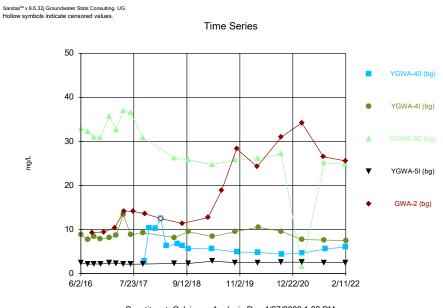
50 YGWC-26I YGWC-26S YGWC-27I YGWC-27S mg/L YGWC-28I 20 YGWC-28S YGWC-29I 6/8/16 7/27/17 9/15/18 11/3/19 12/22/20 2/10/22 Constituent: Calcium Analysis Run 4/27/2022 1:22 PM Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Time Series 50 YGWA-47 (bg) YGWA-17S (bg) 40 YGWA-18I (bg) YGWA-18S (bg) mg/L 20 YGWA-21I (bg) YGWA-39 (bg) 10 6/6/16 7/25/17 9/13/18 11/2/19 12/21/20 2/9/22

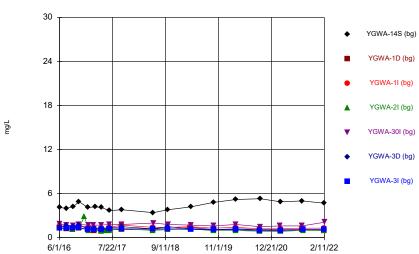
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

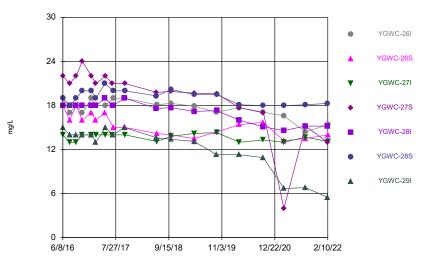


Constituent: Calcium Analysis Run 4/27/2022 1:22 PM Plant Yates Client: Southern Company Data: Yates Ash Pond 2



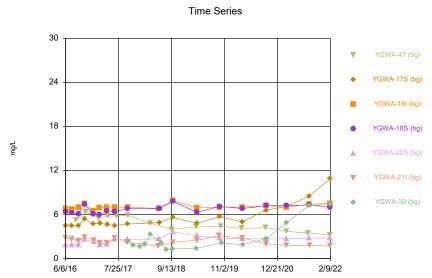


Constituent: Chloride Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



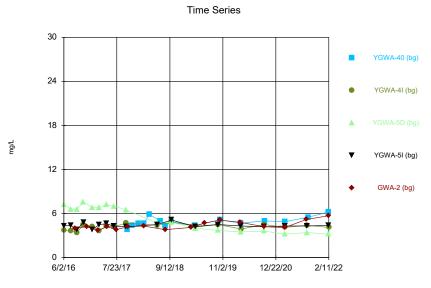
Constituent: Chloride Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG



Constituent: Chloride Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

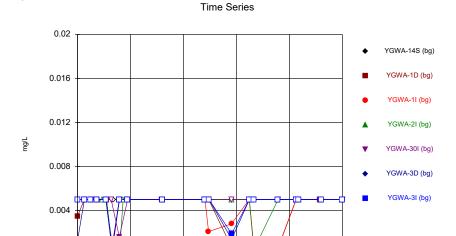
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG



Constituent: Chloride Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

6/1/16

7/22/17



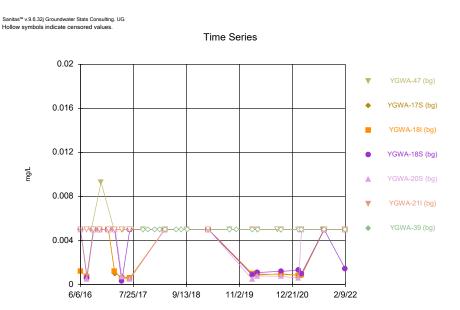
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

11/1/19

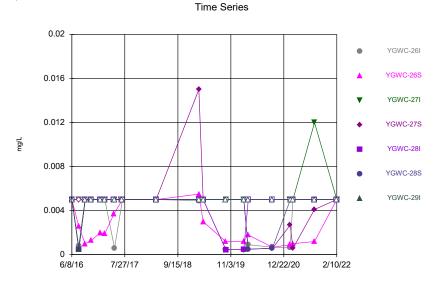
12/21/20

9/11/18

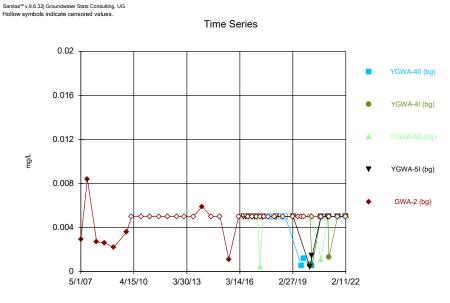
2/11/22



Constituent: Chromium Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

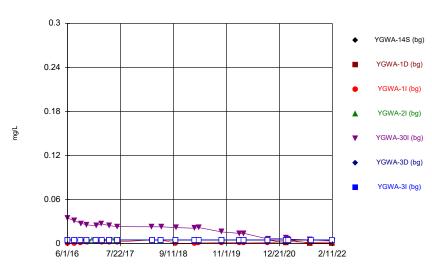


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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



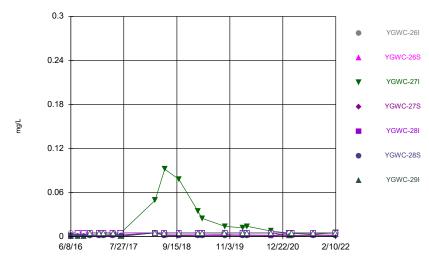
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2





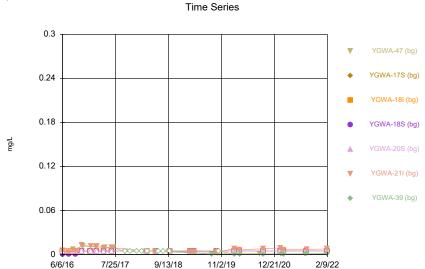
Constituent: Cobalt Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



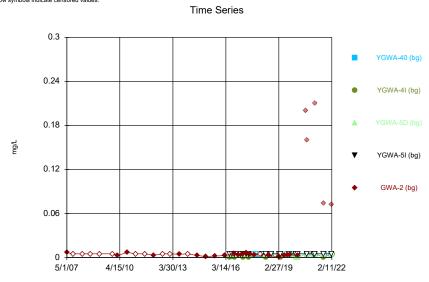
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

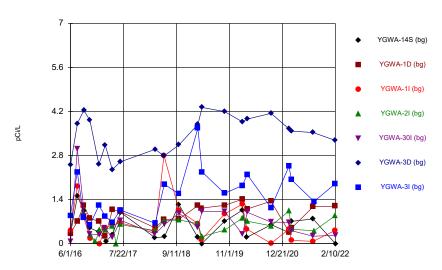
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Cobalt Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

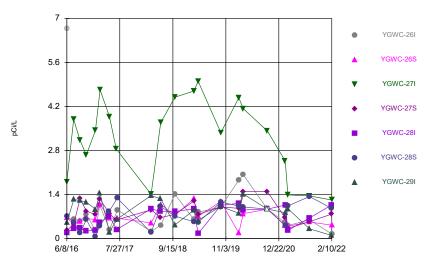
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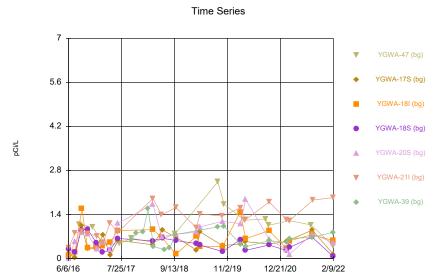
Constituent: Combined Radium 226 + 228 Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



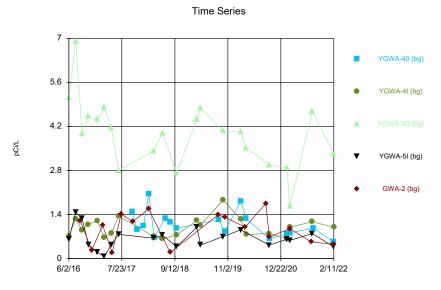
Constituent: Combined Radium 226 + 228 Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG



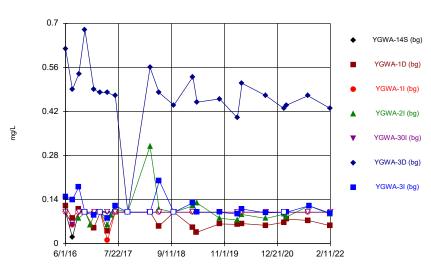
Constituent: Combined Radium 226 + 228 Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

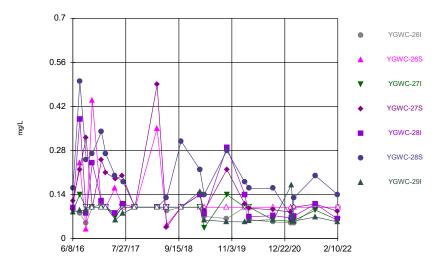


Constituent: Combined Radium 226 + 228 Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



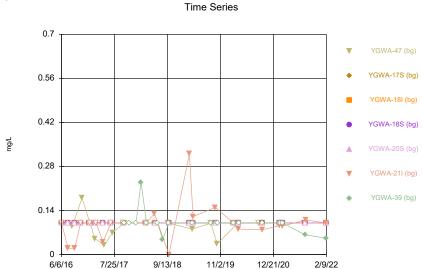


Constituent: Fluoride Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



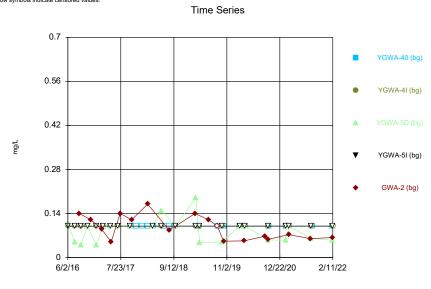
Constituent: Fluoride Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Fluoride Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

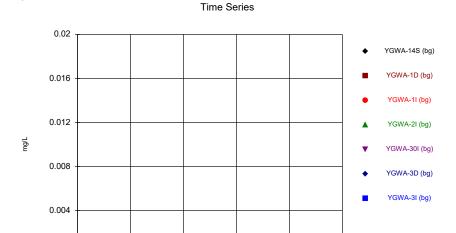
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Fluoride Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

6/1/16

7/22/17



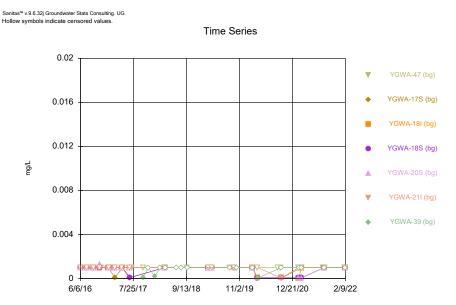
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

11/1/19

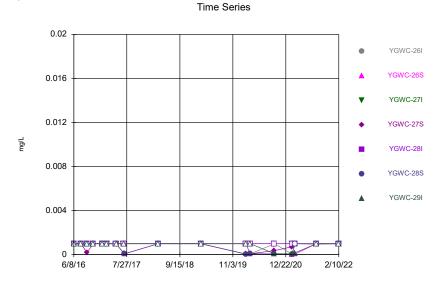
12/21/20

2/11/22

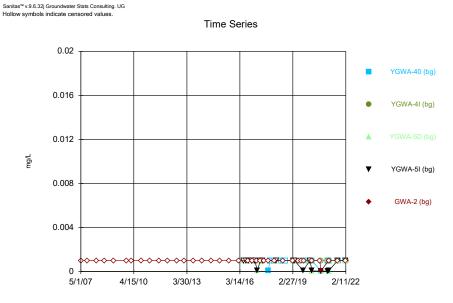
9/11/18



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

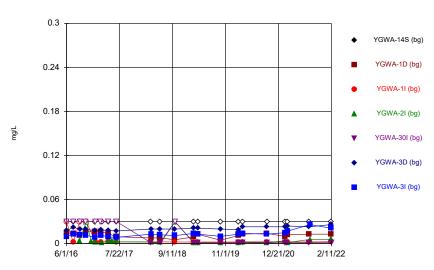


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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



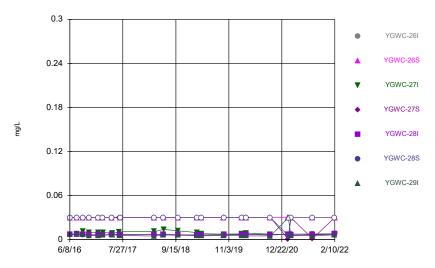
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2





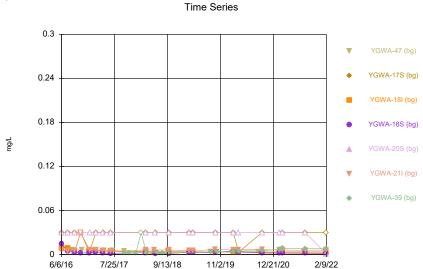
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



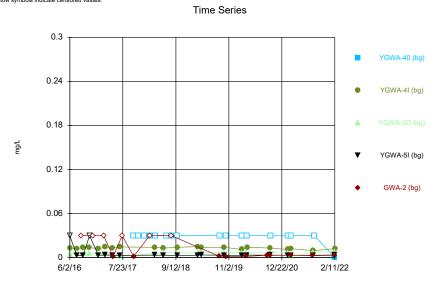
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

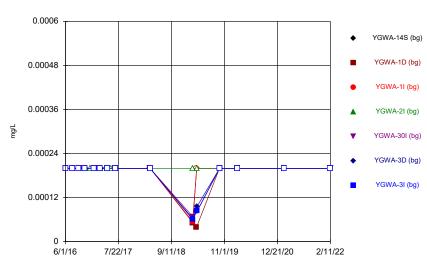


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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

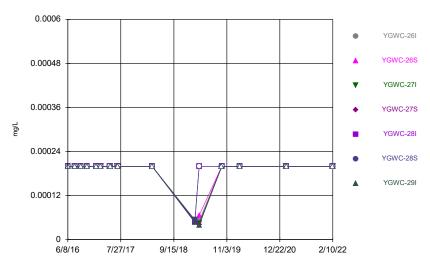
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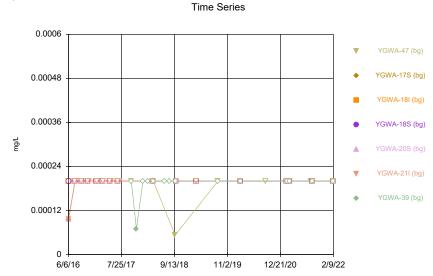


Constituent: Mercury Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



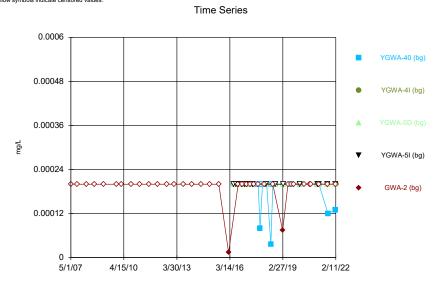
Constituent: Mercury Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



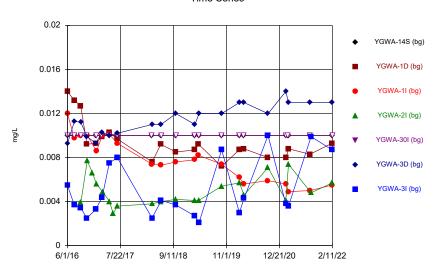
Constituent: Mercury Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



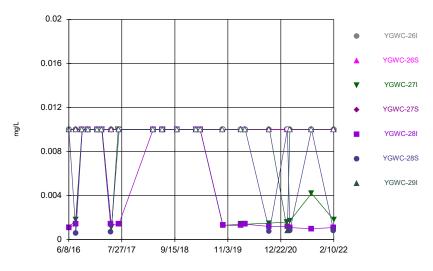
Constituent: Mercury Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2





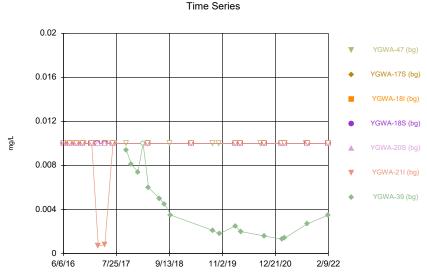
Constituent: Molybdenum Analysis Run 4/27/2022 1:22 PM Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



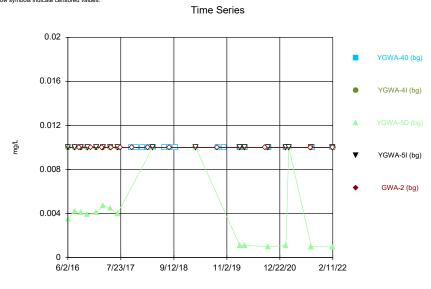
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

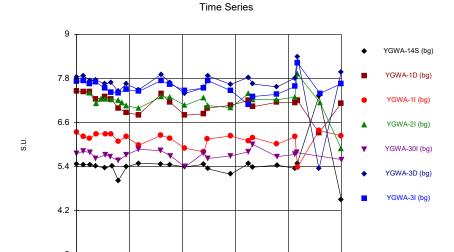


Constituent: Molybdenum Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Molybdenum Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: pH Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

9/11/18

11/1/19

12/21/20

2/11/22

7.8 7.8 YGWC-26I YGWC-27I YGWC-27S YGWC-28I YGWC-28I YGWC-28I YGWC-28I YGWC-29I

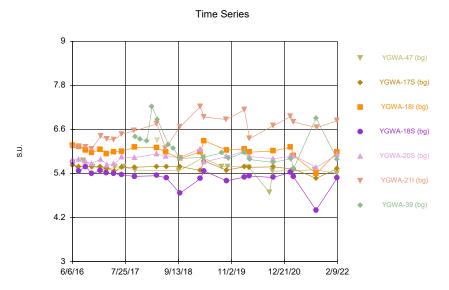
Time Series

Constituent: pH Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

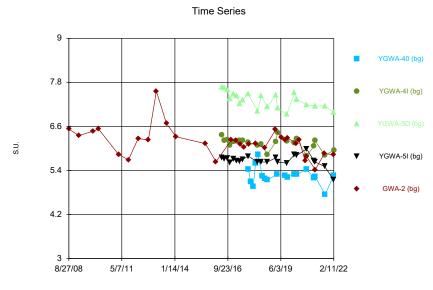
6/1/16

7/22/17



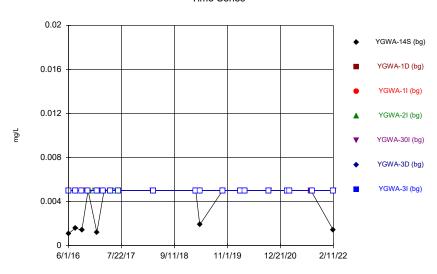
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG



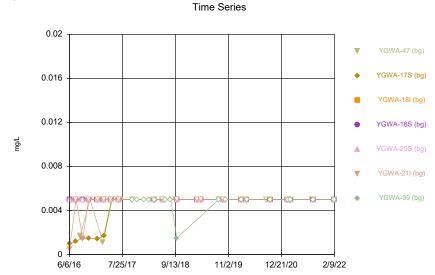
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2





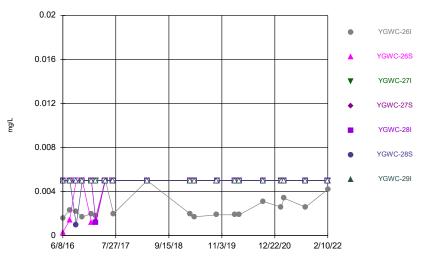
Constituent: Selenium Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



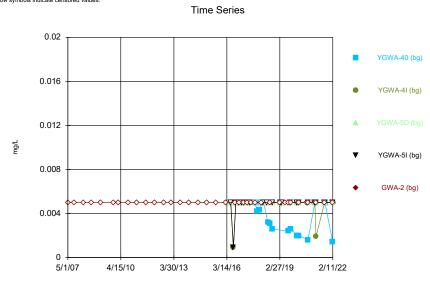
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



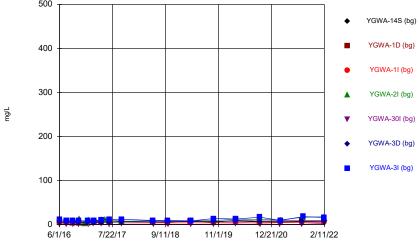
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



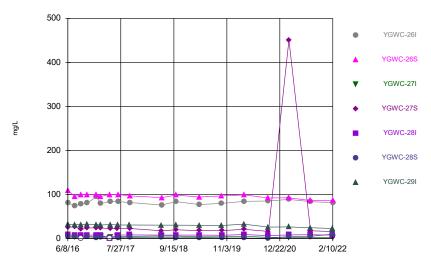
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2





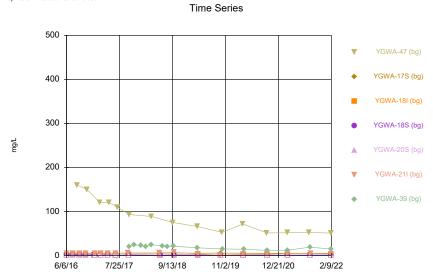
Constituent: Sulfate Analysis Run 4/27/2022 1:22 PM

Time Series



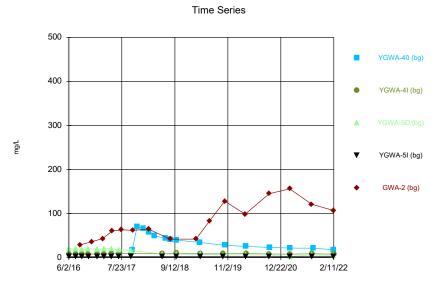
Constituent: Sulfate Analysis Run 4/27/2022 1:23 PM Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values



Constituent: Sulfate Analysis Run 4/27/2022 1:23 PM Plant Yates Client: Southern Company Data: Yates Ash Pond 2

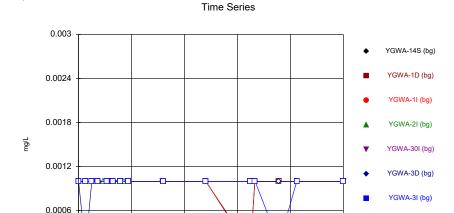
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG



Constituent: Sulfate Analysis Run 4/27/2022 1:23 PM Plant Yates Client: Southern Company Data: Yates Ash Pond 2

6/1/16

7/22/17



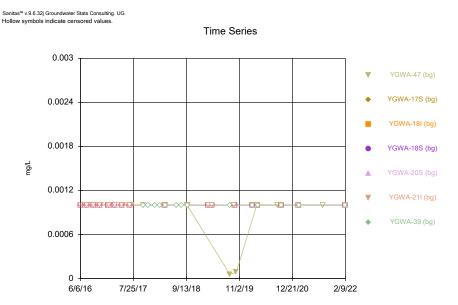
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

11/1/19

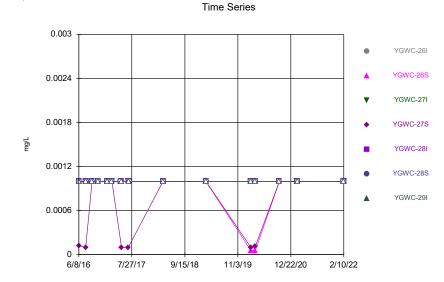
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9/11/18

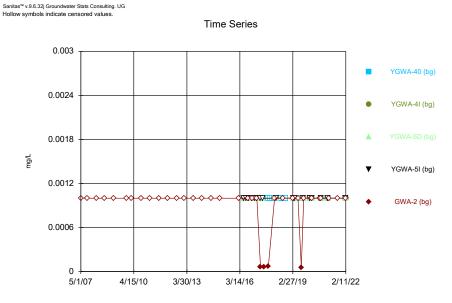
2/11/22



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

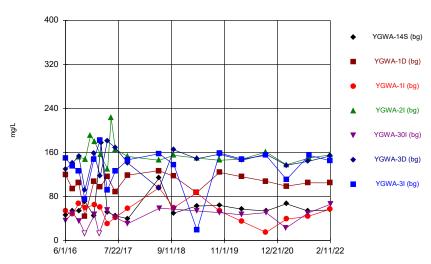


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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

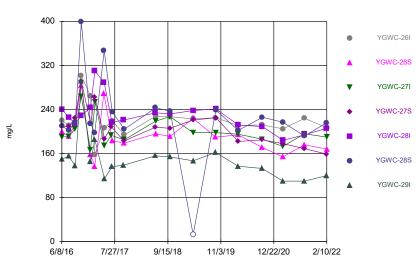


Constituent: Thallium Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



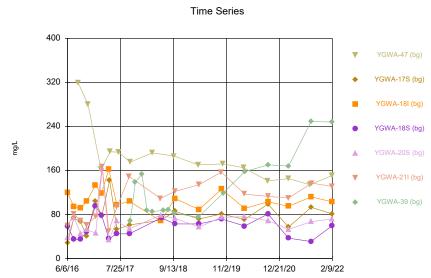


Constituent: Total Dissolved Solids Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



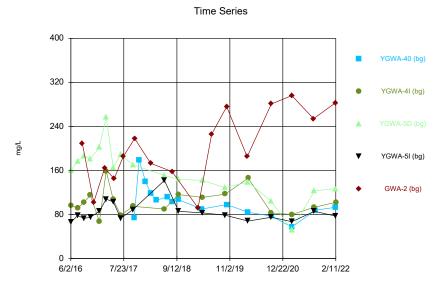
Constituent: Total Dissolved Solids Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG



Constituent: Total Dissolved Solids Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG



Constituent: Total Dissolved Solids Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.003	<0.003				<0.003
6/2/2016	<0.003				<0.003	<0.003	
7/25/2016			<0.003		<0.003		<0.003
7/26/2016	0.0005 (J)	0.001 (J)				0.002 (J)	
9/13/2016		0.001 (J)	<0.003				
9/14/2016				< 0.003			<0.003
9/15/2016	<0.003					0.0027 (J)	
9/19/2016					<0.003		
11/1/2016		0.0015 (J)			<0.003	<0.003	<0.003
11/2/2016	<0.003						
11/4/2016			<0.003	<0.003			
12/15/2016				0.0012 (J)			
1/10/2017	<0.003						
1/11/2017		<0.003				<0.003	<0.003
1/16/2017			<0.003	<0.003	<0.003		
2/21/2017					<0.003		
3/1/2017							<0.003
3/2/2017		0.0004 (J)	<0.003			0.0008 (J)	
3/3/2017		»· (o)		<0.003		, (o)	
3/8/2017	<0.003			-0.000			
4/26/2017	<0.003				<0.003	<0.003	<0.003
4/27/2017	10.003	0.0004 (J)	0.0017 (J)		10.000	10.003	10.000
4/28/2017		0.0004 (3)	0.0017 (3)	0.0015 (1)			
5/26/2017				0.0015 (J) 0.0005 (J)			
		<0.002	-0.002	0.0005 (3)			
6/27/2017		<0.003	<0.003	<0.002		<0.002	z0 003
6/28/2017	10.000			<0.003	-0.000	<0.003	<0.003
6/30/2017	<0.003		-0.000		<0.003		
3/27/2018	<0.003		<0.003		<0.003		0.000
3/28/2018		.0.000		<0.003		<0.003	<0.003
3/29/2018	.0.000	<0.003			0.000		
2/26/2019	<0.003	.0.000		0.000	<0.003		0.000
2/27/2019		<0.003	<0.003	<0.003		<0.003	<0.003
2/10/2020		0.00088 (J)	<0.003				
2/11/2020				0.00036 (J)			<0.003
2/12/2020	<0.003		0.0004 ();		<0.003	<0.003	
3/18/2020	<0.003		0.0004 (J)				
3/19/2020		<0.003		0.0003 (J)	<0.003	0.00064 (J)	<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						
2/10/2021	<0.003			0.0013 (J)		<0.003	<0.003
2/11/2021					<0.003		
2/12/2021		<0.003	<0.003				
3/1/2021					<0.003		
3/2/2021	<0.003						
3/3/2021		<0.003	<0.003	<0.003		<0.003	<0.003
8/19/2021	<0.003	<0.003	<0.003		<0.003	<0.003	
8/27/2021				<0.003			<0.003
2/9/2022		<0.003	<0.003	<0.003		0.0018 (J)	<0.003
2/10/2022	<0.003						
2/11/2022					<0.003		

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.003	<0.003	<0.003	<0.003			
6/9/2016					<0.003	<0.003	<0.003
8/1/2016	<0.003	<0.003	<0.003	<0.003			
8/2/2016					<0.003	<0.003	<0.003
9/20/2016	<0.003	<0.003	<0.003	<0.003			
9/21/2016					<0.003	<0.003	<0.003
11/7/2016	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003
11/8/2016					<0.003		
1/18/2017	<0.003	<0.003	<0.003		<0.003	<0.003	
1/19/2017				<0.003			<0.003
2/21/2017	<0.003	<0.003				<0.003	
2/22/2017				<0.003	<0.003		<0.003
2/23/2017			<0.003				
5/3/2017		<0.003					
5/5/2017					<0.003	<0.003	
5/8/2017	<0.003		<0.003	<0.003			<0.003
6/30/2017			<0.003	<0.003			
7/5/2017					<0.003		<0.003
7/7/2017						<0.003	
7/10/2017	<0.003	<0.003					
3/29/2018			<0.003	<0.003			<0.003
3/30/2018	<0.003	<0.003			<0.003	<0.003	
2/27/2019	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/13/2020	0.00052 (J)	0.0016 (J)	<0.003	<0.003	<0.003	<0.003	<0.003
3/19/2020		0.0017 (J)			<0.003	<0.003	
3/20/2020	0.00059 (J)		0.00033 (J)	0.0003 (J)			<0.003
9/24/2020	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0013 (J)
2/10/2021	<0.003	<0.003	<0.003	<0.003			
2/11/2021					<0.003		
2/12/2021						<0.003	<0.003
3/2/2021		<0.003					
3/3/2021	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003
8/19/2021		<0.003					
8/20/2021	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003
2/8/2022				<0.003	<0.003	<0.003	<0.003
2/10/2022	<0.003	<0.003	<0.003				

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.003	<0.003			
6/7/2016		<0.003			<0.003	<0.003	
7/27/2016		<0.003	0.0005 (J)	<0.003	<0.003		
7/28/2016						<0.003	
8/30/2016	0.0028 (J)						
9/16/2016		<0.003		<0.003			
9/19/2016			<0.003		<0.003	0.001 (J)	
11/2/2016					<0.003		
11/3/2016		<0.003	<0.003	<0.003		<0.003	
11/14/2016	<0.003						
1/11/2017		<0.003	<0.003	<0.003			
1/13/2017		0.000	0.000	0.000	<0.003	<0.003	
2/24/2017	<0.003				-0.000	-0.000	
3/1/2017	10.003		<0.003	<0.003			
		<0.003	~ 0.003	~ 0.003			
3/2/2017		<0.003			-0.000	0.0005 (1)	
3/6/2017					<0.003	0.0005 (J)	
4/26/2017			<0.003	<0.003	<0.003	<0.003	
5/2/2017		<0.003					
5/8/2017	0.0004 (J)						
6/28/2017			<0.003	<0.003			
6/29/2017		<0.003			<0.003	<0.003	
7/11/2017	0.0006 (J)						
10/10/2017	<0.003						
10/11/2017							0.0006 (J)
11/20/2017							<0.003
1/11/2018							<0.003
2/20/2018							<0.003
3/28/2018		<0.003	<0.003	<0.003			
3/29/2018					<0.003	<0.003	
4/2/2018	<0.003						
4/3/2018							<0.003
6/28/2018							<0.003
8/7/2018							<0.003
9/19/2018	<0.003						
9/24/2018							<0.003
3/5/2019		<0.003		<0.003	<0.003	0.0011 (J)	
3/6/2019			<0.003			(3)	
4/2/2019		<0.003				0.0011 (J)	
4/3/2019		0.000	<0.003	<0.003	<0.003	0.0011 (0)	
8/20/2019	<0.003		-0.003	-0.003	10.003		
8/21/2019	10.003						<0.003
9/24/2019						0.0035	10.003
		<0.003			<0.003	0.0000	
9/25/2019		~ 0.003	0.00056 (1)	-0.002	<0.003		
9/26/2019			0.00056 (J)	<0.003			
2/11/2020		<0.003	<0.003	<0.003	-0.000	0.0045 ())	10.000
2/12/2020					<0.003	0.0015 (J)	<0.003
3/24/2020		<0.003	<0.003	<0.003	<0.003	0.0017 (J)	
3/25/2020							0.0014 (J)
8/27/2020	0.00048 (J)						
9/22/2020	<0.003						
9/23/2020		<0.003	<0.003	<0.003			
9/24/2020					<0.003	0.0047	<0.003

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/9/2021			<0.003	<0.003	0.00032 (J)	0.0013 (J)	
2/10/2021							<0.003
3/1/2021	0.00048 (J)						
3/3/2021		<0.003	<0.003	0.00067 (J)	<0.003		
3/4/2021						0.0014 (J)	<0.003
8/19/2021	<0.003						
8/26/2021				<0.003			<0.003
8/27/2021		<0.003	<0.003		<0.003		
9/1/2021						<0.003	
2/8/2022	<0.003						<0.003
2/9/2022		<0.003	<0.003	<0.003	<0.003	<0.003	

			Fianti	ates Client. South	iterii Company Data: Tates Ash Fond 2
	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
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
6/2/2016		<0.003	<0.003	<0.003	
7/26/2016		0.0003 (J)	<0.003	<0.003	
8/31/2016					<0.003
9/14/2016		<0.003	<0.003	<0.003	
11/2/2016		<0.003	<0.003		
11/4/2016				<0.003	
11/28/2016					0.0014 (J)
1/12/2017			<0.003	<0.003	
1/13/2017		<0.003			
2/22/2017					<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					<0.003
6/27/2017			<0.003	<0.003	
6/29/2017		<0.003			
7/17/2017		-0.000			<0.003
10/12/2017	<0.003				10.000
10/12/2017	10.003				<0.003
11/20/2017	<0.002				NO.003
	<0.003				
1/10/2018	<0.003				0.000
2/19/2018	<0.003				<0.003
3/29/2018		<0.003	<0.003	<0.003	
4/3/2018	<0.003				
6/28/2018	<0.003				
8/6/2018					<0.003
8/7/2018	<0.003				
9/24/2018	<0.003				
2/25/2019					<0.003
3/4/2019		<0.003	<0.003	<0.003	
4/3/2019		<0.003	<0.003	<0.003	
6/12/2019					<0.003

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/19/2019					<0.003
8/21/2019	<0.003				
9/24/2019			<0.003	<0.003	
9/25/2019		<0.003			
10/8/2019					<0.003
2/12/2020	<0.003	<0.003	<0.003	<0.003	
3/17/2020					<0.003
3/24/2020	<0.003		<0.003	<0.003	
3/25/2020		<0.003			
8/26/2020					0.00042 (J)
9/22/2020		<0.003	<0.003	<0.003	0.00044 (J)
9/24/2020	<0.003				
2/8/2021			<0.003	<0.003	
2/9/2021		<0.003			
2/10/2021	<0.003				
3/2/2021			<0.003	<0.003	<0.003
3/3/2021		<0.003			
3/4/2021	<0.003				
8/20/2021					<0.003
8/26/2021		<0.003	<0.003	<0.003	
9/3/2021	<0.003				
2/8/2022	<0.003				<0.003
2/10/2022			<0.003	<0.003	
2/11/2022		<0.003			

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.0021	<0.005				<0.005
6/2/2016	<0.005				<0.005	<0.005	
7/25/2016			<0.005		<0.005		<0.005
7/26/2016	<0.005	0.0016 (J)				<0.005	
9/13/2016		<0.005	<0.005				
9/14/2016				<0.005			<0.005
9/15/2016	<0.005					<0.005	
9/19/2016					<0.005		
11/1/2016		<0.005			<0.005	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			<0.005	0.0017 (J)			
12/15/2016				0.0023 (J)			
1/10/2017	<0.005						
1/11/2017		0.0017 (J)				<0.005	<0.005
1/16/2017			<0.005	0.0018 (J)	<0.005		
2/21/2017					<0.005		
3/1/2017							0.0004 (J)
3/2/2017		0.0014 (J)	<0.005			<0.005	
3/3/2017				0.0016 (J)			
3/8/2017	<0.005						
4/26/2017	<0.005				<0.005	<0.005	<0.005
4/27/2017		0.0018 (J)	<0.005				
4/28/2017				0.002 (J)			
5/26/2017				0.0005 (J)			
6/27/2017		0.0018 (J)	<0.005				
6/28/2017				0.0016 (J)		0.0007 (J)	0.0011 (J)
6/30/2017	<0.005				<0.005		
3/27/2018	<0.005		<0.005		<0.005		
3/28/2018				0.0013 (J)		<0.005	<0.005
3/29/2018		0.0017 (J)					
6/5/2018		0.0013 (J)					
6/6/2018			<0.005				
6/7/2018				0.00082 (J)		<0.005	
6/8/2018	<0.005						<0.005
6/11/2018					<0.005		
10/1/2018	<0.005	0.0016 (J)	<0.005	0.0011 (J)		<0.005	<0.005
10/2/2018					<0.005		
2/26/2019	<0.005				<0.005		
2/27/2019		0.0015 (J)	<0.005	0.001 (J)		<0.005	<0.005
3/28/2019		0.00072 (J)	<0.005				
3/29/2019	<0.005			0.00063 (J)			
4/1/2019					<0.005	<0.005	<0.005
9/24/2019		0.0014 (J)	<0.005	<0.005			
9/25/2019	<0.005				<0.005	<0.005	<0.005
2/10/2020		0.0026 (J)	0.0005 (J)				
2/11/2020				0.0044 (J)			0.0041 (J)
2/12/2020	<0.005				0.0032 (J)	0.0038 (J)	
3/18/2020	<0.005		<0.005				
3/19/2020		0.00095 (J)		0.00066 (J)	<0.005	<0.005	<0.005
9/23/2020		0.0011 (J)	<0.005	0.001 (J)		<0.005	<0.005
9/24/2020					<0.005		
9/25/2020	<0.005						

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.005			<0.005		0.00094 (J)	0.00078 (J)
2/11/2021					<0.005		
2/12/2021		<0.005	<0.005				
3/1/2021					<0.005		
3/2/2021	<0.005						
3/3/2021		<0.005	<0.005	0.00098 (J)		<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005		<0.005	<0.005	
8/27/2021				<0.005			<0.005
2/9/2022		0.0031 (J)	0.0033 (J)	0.0037 (J)		0.002 (J)	0.0018 (J)
2/10/2022	0.0016 (J)						
2/11/2022					0.0014 (J)		

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	<0.005	0.0011 (J)	<0.005			
6/9/2016					<0.005	0.00094 (J)	<0.005
8/1/2016	<0.005	<0.005	0.0009 (J)	<0.005			
8/2/2016					<0.005	<0.005	<0.005
9/20/2016	<0.005	<0.005	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	<0.005	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	<0.005				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		<0.005					
5/5/2017					<0.005	<0.005	
5/8/2017	<0.005		0.0006 (J)	<0.005			<0.005
6/30/2017			<0.005 (*)	<0.005 (*)			
7/5/2017					<0.005		<0.005
7/7/2017						0.0007 (J)	
7/10/2017	<0.005	<0.005					
3/29/2018			0.0006 (J)	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	0.00069 (J)	
6/11/2018							<0.005
6/12/2018				<0.005	<0.005	0.00075 (J)	
6/13/2018	<0.005	<0.005	<0.005				
10/2/2018	<0.005	<0.005	<0.005	<0.005			<0.005
10/3/2018					<0.005	0.0007 (J)	
2/27/2019	<0.005	<0.005	0.00069 (J)	<0.005	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	<0.005				<0.005	
9/25/2019	<0.005	<0.005					<0.005
9/26/2019			0.00058 (J)	<0.005	<0.005	0.00057 (J)	
2/13/2020	<0.005	<0.005	0.00055 (J)	<0.005	<0.005	0.00065 (J)	<0.005
3/19/2020		<0.005			<0.005	0.00051 (J)	
3/20/2020	<0.005		0.00042 (J)	<0.005			<0.005
9/24/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2021	<0.005	<0.005	<0.005	<0.005			
2/11/2021					<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
8/19/2021		<0.005					
8/20/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2022				0.0019 (J)	0.0021 (J)	0.0042 (J)	0.0033 (J)
2/10/2022	0.0028 (J)	0.0032 (J)	0.004 (J)				

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.005	<0.005			
6/7/2016		<0.005			<0.005	<0.005	
7/27/2016		<0.005	<0.005	<0.005	<0.005		
7/28/2016						<0.005	
8/30/2016	<0.005						
9/16/2016		<0.005		<0.005			
9/19/2016			<0.005		<0.005	<0.005	
11/2/2016					<0.005		
11/3/2016		<0.005	<0.005	<0.005		<0.005	
11/14/2016	<0.005						
1/11/2017		<0.005	<0.005	<0.005			
1/13/2017					<0.005	<0.005	
2/24/2017	<0.005						
3/1/2017			<0.005	<0.005			
3/2/2017		<0.005	0.000	0.000			
3/6/2017		0.000			<0.005	0.0017 (J)	
4/26/2017			<0.005	<0.005	<0.005	<0.005	
5/2/2017		<0.005	10.000	10.000	-0.000	-0.000	
5/8/2017	<0.005	-0.003					
6/28/2017	~0.003		<0.005	<0.005			
6/29/2017		<0.005	~ 0.003	~0.003	<0.005	<0.005	
7/11/2017	<0.005	~ 0.003			~0.003	~0.003	
10/10/2017	0.0007 (J)						0.0000 (1)
10/11/2017							0.0009 (J)
11/20/2017							<0.005
1/11/2018							<0.005
2/20/2018		<0.00E	<0.00E	0.00061 (J)			<0.005
3/28/2018		<0.005	<0.005	0.00061 (3)	10.005	0.0015 (1)	
3/29/2018	-0.005				<0.005	0.0015 (J)	
4/2/2018	<0.005						40.005
4/3/2018						0.0012 (1)	<0.005
6/5/2018					.0.005	0.0013 (J)	
6/6/2018			0.00000 (1)		<0.005		
6/7/2018		-0.005	0.00066 (J)	-0.005			
6/11/2018		<0.005		<0.005			0.005
6/28/2018							<0.005
8/7/2018	0.00072 (1)						<0.005
9/19/2018	0.00072 (J)						40.005
9/24/2018		-0.005	-0.005	-0.005	-0.005	0.0000 ("	<0.005
9/25/2018		<0.005	<0.005	<0.005	<0.005	0.0022 (J)	
3/5/2019		<0.005	-0.005	<0.005	<0.005	0.0013 (J)	
3/6/2019			<0.005				
4/2/2019		<0.005	0.005	.0.005	.0.00=	0.00096 (J)	
4/3/2019			<0.005	<0.005	<0.005		
8/20/2019	<0.005						0.00050 (1)
8/21/2019							0.00058 (J)
9/24/2019						0.0026 (J)	
9/25/2019		<0.005			<0.005		
9/26/2019			<0.005	<0.005			
10/8/2019	<0.005						
10/9/2019							0.00063 (J)
2/11/2020		0.0022 (J)	0.0014 (J)	0.0026 (J)			

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					<0.005	0.0025 (J)	0.00058 (J)
3/17/2020	<0.005						
3/24/2020		<0.005	<0.005	<0.005	<0.005	0.0013 (J)	
3/25/2020							0.0012 (J)
8/27/2020	<0.005						
9/22/2020	<0.005						
9/23/2020		<0.005	<0.005	<0.005			
9/24/2020					<0.005	0.0014 (J)	<0.005
2/9/2021			<0.005	<0.005	<0.005	0.001 (J)	
2/10/2021							<0.005
3/1/2021	<0.005						
3/3/2021		<0.005	<0.005	<0.005	<0.005		
3/4/2021						0.00078 (J)	<0.005
8/19/2021	<0.005						
8/26/2021				<0.005			<0.005
8/27/2021		<0.005	<0.005		<0.005		
9/1/2021						<0.005	
2/8/2022	0.0027 (J)						0.0034 (J)
2/9/2022		0.0024 (J)	0.0022 (J)	0.0024 (J)	0.0021 (J)	0.0036 (J)	

			Fidit	ates Chent. South	erri Company	Data. Tates Asii Foliu 2
	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	
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	
6/2/2016		<0.005	0.00071 (J)	<0.005		
7/26/2016		<0.005	0.001 (J)	<0.005		
8/31/2016			(-)		<0.005	
9/14/2016		<0.005	<0.005	<0.005		
11/2/2016		<0.005	<0.005			
11/4/2016				<0.005		
11/28/2016					<0.005	
1/12/2017			<0.005	<0.005		
1/13/2017		<0.005				
2/22/2017					<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	. ,			
7/17/2017					<0.005	
10/12/2017	<0.005					
10/16/2017					<0.005	
11/20/2017	<0.005					
1/10/2018	<0.005					
2/19/2018	<0.005				<0.005	
3/29/2018		<0.005	0.0006 (J)	<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	.,				
8/6/2018					<0.005	
8/7/2018	<0.005					
9/24/2018	<0.005					
9/26/2018		<0.005	0.0014 (J)	<0.005		
2/25/2019			ν-/		<0.005	

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.005	<0.005	<0.005	
4/3/2019		<0.005	<0.005	<0.005	
6/12/2019					0.00038 (J)
8/19/2019					0.00095 (J)
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			
8/26/2020					<0.005
9/22/2020		<0.005	0.001 (J)	<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				
3/2/2021			<0.005	<0.005	<0.005
3/3/2021		<0.005			
3/4/2021	<0.005				
8/20/2021					<0.005
8/26/2021		<0.005	0.0016 (J)	<0.005	
9/3/2021	<0.005				
2/8/2022	0.003 (J)				0.0033 (J)
2/10/2022			0.004 (J)	0.0016 (J)	
2/11/2022		0.0014 (J)			

6/1/0	116	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/20		0.0081	800.0	0.012		0.0064	0.01	0.0038
6/2/20		0.0081		0.0001 (1)		0.0064	0.01	0.0004 (1)
7/25/2		0.0000 (1)	0.000 (1)	0.0091 (J)		0.0071 (J)	0.0000 (1)	0.0031 (J)
7/26/2		0.0082 (J)	0.006 (J)	0.000 (1)			0.0088 (J)	
9/13/2			0.0084 (J)	0.008 (J)	0.0007 (1)			0.0007 (1)
9/14/2					0.0037 (J)			0.0027 (J)
9/15/2		0.0087 (J)					0.009 (J)	
9/19/2						0.0069 (J)		
11/1/2			0.0062 (J)			0.007 (J)	0.0079 (J)	0.0027 (J)
11/2/2		0.0082 (J)						
11/4/2				0.0067 (J)	0.0059 (J)			
12/15					0.0056 (J)			
1/10/2		0.0086 (J)						
1/11/2			0.0069 (J)				0.0075 (J)	0.0036 (J)
1/16/2				0.0096 (J)	0.0049 (J)	0.0071 (J)		
2/21/2						0.0077 (J)		
3/1/20								0.0036 (J)
3/2/20			0.0071 (J)	0.0112			0.009 (J)	
3/3/20					0.0046 (J)			
3/8/20	017	0.0088 (J)						
4/26/2	2017	0.0085 (J)				0.0074 (J)	0.0078 (J)	0.0038 (J)
4/27/2	2017		0.0064 (J)	0.0106				
4/28/2	2017				0.0039 (J)			
5/26/2	2017				0.0034 (J)			
6/27/2	2017		0.0054 (J)	0.0092 (J)				
6/28/2	2017				0.003 (J)		0.0071 (J)	0.004 (J)
6/30/2	2017	0.0081 (J)				0.0076 (J)		
3/27/2	2018	<0.01		<0.01		<0.01		
3/28/2	2018				<0.01		<0.01	<0.01
3/29/2	2018		<0.01					
6/5/20)18		0.0069 (J)					
6/6/20)18			0.0082 (J)				
6/7/20)18				0.0037 (J)		0.0068 (J)	
6/8/20)18	0.007 (J)						0.0034 (J)
6/11/2	2018					0.007 (J)		
10/1/2	2018	0.007 (J)	0.0062 (J)	0.0084 (J)	0.0038 (J)		0.0065 (J)	0.0034 (J)
10/2/2	2018					0.0069 (J)		
2/26/2	2019	0.0067 (J)				0.007 (J)		
2/27/2	2019		0.0074 (J)	0.008 (J)	0.0035 (J)		0.0059 (J)	0.0034 (J)
3/28/2	2019		0.0082 (J)	0.0082 (J)				
3/29/2	2019	0.0066 (J)			0.0039 (J)			
4/1/20)19					0.0072 (J)	0.0064 (J)	0.003 (J)
9/24/2	2019		0.0072 (J)	0.0086 (J)	0.0038 (J)			
9/25/2	2019	0.0071 (J)				0.0066 (J)	0.0059 (J)	0.005 (J)
2/10/2	2020		0.0066 (J)	0.0091 (J)				
2/11/2	2020				0.0036 (J)			0.0031 (J)
2/12/2	2020	0.007 (J)				0.0073 (J)	0.0062 (J)	
3/18/2	2020	0.0076 (J)		0.0084 (J)				
3/19/2	2020		0.0076 (J)		0.0036 (J)	0.0074 (J)	0.0072 (J)	0.0029 (J)
9/23/2	2020		0.0068 (J)	0.0079 (J)	0.0039 (J)		0.0051 (J)	0.0039 (J)
9/24/2	2020					0.0062 (J)		
9/25/2	2020	0.0073 (J)						

2/10/2021	YGWA-14S (bg) 0.0078 (J)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg) 0.0032 (J)	YGWA-30I (bg)	YGWA-3D (bg) 0.0059 (J)	YGWA-3I (bg) 0.0029 (J)
2/11/2021					0.0077 (J)		
2/12/2021		0.0057 (J)	0.009 (J)				
3/1/2021					0.007		
3/2/2021	0.0076						
3/3/2021		0.0068	0.0094	0.0041 (J)		0.0064	0.0031 (J)
8/19/2021	0.0077	0.0065	0.0079		0.0071	0.0052	
8/27/2021				0.003 (J)			0.0039 (J)
2/9/2022		0.0067	0.0088	0.0029 (J)		0.0051	0.0031 (J)
2/10/2022	0.0088						
2/11/2022					0.0077		

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.068	0.029	0.081	0.12			
6/9/2016					0.1	0.22	0.082
8/1/2016	0.0688	0.0316	0.0838	0.115			
8/2/2016					0.0836	0.212	0.0781
9/20/2016	0.0663	0.0298	0.0687	0.108			
9/21/2016					0.0889	0.228	0.0782
11/7/2016	0.065	0.0289	0.0639	0.102		0.214	0.0712
11/8/2016					0.0886		
1/18/2017	0.0625	0.0278	0.0645		0.0862	0.213	
1/19/2017				0.102			0.0689
2/21/2017	0.0655	0.0282				0.222	
2/22/2017				0.106	0.0915		0.0741
2/23/2017			0.0728				
5/3/2017		0.0282					
5/5/2017					0.0891	0.219	
5/8/2017	0.0699		0.0721	0.102			0.0725
6/30/2017			0.0666	0.0963			
7/5/2017					0.0862		0.0677
7/7/2017						0.205	
7/10/2017	0.0691	0.0274					
3/29/2018			0.062	0.097			0.055
3/30/2018	0.063	0.026			0.087	0.2	
6/11/2018							0.068
6/12/2018				0.095	0.088	0.21	
6/13/2018	0.064	0.026	0.063				
10/2/2018	0.066	0.026	0.062	0.1			0.067
10/3/2018					0.092	0.22	
2/27/2019	0.065	0.027	0.066	0.096	0.086	0.21	0.067
4/1/2019			0.066	0.099	0.088		0.063
4/2/2019	0.065	0.027				0.2	
9/25/2019	0.063	0.026					0.061
9/26/2019			0.065	0.099	0.087	0.18	
2/13/2020	0.06	0.025	0.063	0.097	0.089	0.21	0.053
3/19/2020		0.027			0.089	0.2	
3/20/2020	0.063		0.062	0.095			0.057
9/24/2020	0.058	0.025	0.069	0.087	0.079	0.18	0.056
2/10/2021	0.06	0.031	0.08	0.088			
2/11/2021					0.078		
2/12/2021						0.057	0.21
3/2/2021		0.031					
3/3/2021	0.064	0.000	0.08	0.075	0.077	0.25	0.059
8/19/2021	0.000	0.023	0.000	0.000	0.070	0.04	0.057
8/20/2021	0.063		0.083	0.082	0.079	0.24	0.057
2/8/2022	0.063	0.027	0.070	0.068	0.083	0.2	0.057
2/10/2022	0.063	0.027	0.079				

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			0.028	0.019			
6/7/2016		0.012			0.014	0.0058	
7/27/2016		0.0126	0.0294	0.0167	0.0141		
7/28/2016						0.0068 (J)	
8/30/2016	0.0413						
9/16/2016		0.0127		0.0168			
9/19/2016			0.0247		0.0155	0.0071 (J)	
11/2/2016					0.0157		
11/3/2016		0.0128	0.0248	0.0159		0.0092 (J)	
11/14/2016	0.0383						
1/11/2017		0.0142	0.0266	0.0162			
1/13/2017					0.0158	0.0105	
2/24/2017	0.0351						
3/1/2017			0.0275	0.0195			
3/2/2017		0.0155					
3/6/2017					0.0163	0.0105	
4/26/2017			0.024	0.0182	0.0177	0.011	
5/2/2017		0.0138					
5/8/2017	0.0251						
6/28/2017			0.0237	0.018			
6/29/2017		0.0128			0.017	0.0109	
7/11/2017	0.0233						
10/10/2017	0.0207						
10/11/2017							0.0092 (J)
11/20/2017							0.0081 (J)
1/11/2018							0.0077 (J)
2/20/2018							<0.01
3/28/2018		0.014	0.024	0.021			
3/29/2018		0.0	0.02	0.02	0.014	<0.01	
4/2/2018	0.022				0.011	0.01	
4/3/2018	0.022						<0.01
6/5/2018						0.011	
6/6/2018					0.015	0.011	
6/7/2018			0.023		0.0.0		
6/11/2018		0.013	0.020	0.019			
6/28/2018		0.0.0		0.0.0			0.0078 (J)
8/7/2018							0.0078 (J)
9/19/2018	0.023						5.5575 (5)
9/24/2018	0.020						0.0071 (J)
9/25/2018		0.014	0.023	0.019	0.015	0.011	0.0071 (0)
3/5/2019		0.015	0.020	0.02	0.016	0.011	
3/6/2019		0.013	0.024	0.02	0.010	0.011	
4/2/2019		0.016	0.024			0.011	
4/3/2019		0.010	0.025	0.017	0.018	0.011	
8/20/2019	0.024		0.023	0.017	0.010		
8/21/2019	0.024						0.015
9/24/2019						0.011	5.5.0
9/25/2019		0.015			0.014	0.011	
9/26/2019		0.013	0.021	0.017	0.014		
10/8/2019	0.025		0.021	0.017			
10/8/2019	0.020						0.013
2/11/2020		0.015	0.022	0.019			0.010
2/11/2020		5.015	U.UZZ	0.010			

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					0.014	0.011	0.011
3/17/2020	0.035						
3/24/2020		0.015	0.021	0.017	0.015	0.011	
3/25/2020							0.014
8/27/2020	0.027						
9/22/2020	0.026						
9/23/2020		0.015	0.021	0.016			
9/24/2020					0.015	0.01	0.016
2/9/2021			0.023	0.017	0.015	0.011	
2/10/2021							0.027
3/1/2021	0.029						
3/3/2021		0.017	0.023	0.017	0.015		
3/4/2021						0.011	0.028
8/19/2021	0.029						
8/26/2021				0.015			0.038
8/27/2021		0.016	0.02		0.013		
9/1/2021						0.0099	
2/8/2022	0.03						0.041
2/9/2022		0.017	0.021	0.014	0.014	0.011	

			Fidill	ates Chefft. 30uti	lerii Company	Data. Tates Astrollu 2
	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	
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	
6/2/2016		0.013	0.0084	0.019		
7/26/2016		0.0158	0.01	0.0179		
8/31/2016					0.0542	
9/14/2016		0.0143	0.0085 (J)	0.0181		
11/2/2016		0.0148	0.0091 (J)			
11/4/2016				0.0165		
11/28/2016					0.0529	
1/12/2017			0.0089 (J)	0.0199		
1/13/2017		0.0146				
2/22/2017					0.0607	
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					0.065	
6/27/2017			0.0074 (J)	0.0184		
6/29/2017		0.0154				
7/17/2017					0.06	
10/12/2017	0.0328					
10/16/2017					0.0542	
11/20/2017	0.0671					
1/10/2018	0.0656					
2/19/2018	0.0598				0.0533	
3/29/2018		0.014	<0.01	0.021		
4/3/2018	0.045					
6/6/2018			0.008 (J)			
6/7/2018		0.014		0.019		
6/28/2018	0.047					
8/6/2018					0.044	
8/7/2018	0.048					
9/24/2018	0.042					
9/26/2018		0.02	0.0075 (J)	0.019	0.045	
2/25/2019					0.045	

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		0.016	0.0077 (J)	0.019	
4/3/2019		0.017	0.0087 (J)	0.023	
6/12/2019					0.063
8/19/2019					0.065
8/21/2019	0.035				
9/24/2019			0.0075 (J)	0.019	
9/25/2019		0.015			
10/8/2019					0.058
10/9/2019	0.036				
2/12/2020	0.035	0.012	0.0079 (J)	0.021	
3/17/2020					0.047
3/24/2020	0.033		0.0076 (J)	0.021	
3/25/2020		0.016			
8/26/2020					0.044
9/22/2020		0.013	0.0076 (J)	0.019	0.045
9/24/2020	0.028				
2/8/2021			0.0079 (J)	0.02	
2/9/2021		0.013			
2/10/2021	0.032				
3/2/2021			0.014	0.019	0.039
3/3/2021		0.014			
3/4/2021	0.032				
8/20/2021					0.036
8/26/2021		0.012	0.0092	0.019	
9/3/2021	0.035				
2/8/2022	0.039				0.037
2/10/2022			0.0084	0.02	
2/11/2022		0.013			

6/1/20	016	YGWA-14S (bg)	YGWA-1D (bg) <0.0005	YGWA-1I (bg) <0.0005	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg) <0.0005
6/2/20		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005
7/25/2		10.0003		<0.0005		<0.0005	10.0000	<0.0005
7/26/2		0.0002 (J)	<0.0005	10.0003		10.0000	<0.0005	-0.0003
9/13/2		0.0002 (3)	<0.0005	<0.0005			~0.0003	
9/14/2			10.0000	10.0000	<0.0005			<0.0005
9/15/2		0.0002 (J)			~0.0003		<0.0005	~0.0003
9/19/2		0.0002 (3)				<0.0005	<0.0005	
			<0.0005			<0.0005	<0.0005	<0.0005
11/1/2 11/2/2		0.000271	<0.0005			<0.0005	<0.0005	<0.0005
11/4/2		0.0002 (J)		<0.0005	<0.0005			
	5/2016			<0.0005	<0.0005			
1/10/2		0.0002 (J)			<0.0005			
1/11/2		0.0002 (3)	<0.0005				<0.0005	<0.0005
			<0.0005	<0.000E	<0.000E	<0.000E	<0.0003	<0.0005
1/16/2				<0.0005	<0.0005	<0.0005 <0.0005		
2/21/2						<0.0005		<0.000E
3/1/20			-0.0005	-0.0005			-0.0005	<0.0005
3/2/20			<0.0005	<0.0005	.0.005		<0.0005	
3/3/20		0.0000 (1)			<0.0005			
3/8/20		0.0002 (J)				-0.0005	-0.0005	-0.0005
4/26/2		0.0002 (J)	-0.0005	-0.0005		<0.0005	<0.0005	<0.0005
4/27/2			<0.0005	<0.0005	0.0005			
4/28/2					<0.0005			
5/26/2			0.0005	0.0005	<0.0005			
6/27/2			<0.0005	<0.0005				
6/28/2		0.0000 (1)			<0.0005	.0.005	<0.0005	<0.0005
6/30/2		0.0002 (J)				<0.0005		
3/27/2		<0.0005		<0.0005		<0.0005		
3/28/2					<0.0005		<0.0005	<0.0005
3/29/2		0.00040 (1)	<0.0005			7.05.05.41)		
2/26/2		0.00016 (J)				7.2E-05 (J)		
2/27/2			<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
3/28/2			<0.0005	<0.0005				
3/29/2		0.00017 (J)			<0.0005	.0.005	0.0005	.0.0005
4/1/20						<0.0005	<0.0005	<0.0005
9/24/2			<0.0005	<0.0005	<0.0005			
9/25/2		0.00018 (J)				<0.0005	<0.0005	<0.0005
2/10/2			<0.0005	<0.0005				
2/11/2					<0.0005			<0.0005
2/12/2		0.00019 (J)				<0.0005	<0.0005	
3/18/2		0.00021 (J)		<0.0005				
3/19/2			<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
9/23/2			<0.0005	<0.0005	<0.0005		<0.0005	5.9E-05 (J)
9/24/2						<0.0005		
9/25/2		0.00018 (J)						
2/10/2		0.00019 (J)			<0.0005		<0.0005	<0.0005
2/11/2						4.7E-05 (J)		
2/12/2			<0.0005	<0.0005				
3/1/20						<0.0005		
3/2/20		0.00018 (J)						
3/3/20			<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
8/19/2	2021	0.00022 (J)	<0.0005	<0.0005		<0.0005	<0.0005	

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	
8/27/2021				<0.0005			<0.0005	
2/9/2022		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	
2/10/2022	0.00025 (J)							
2/11/2022					<0.0005			

					-		
	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.0005	<0.0005	<0.0005	<0.0005			
6/9/2016					<0.0005	<0.0005	<0.0005
8/1/2016	<0.0005	0.0002 (J)	<0.0005	<0.0005			
8/2/2016					<0.0005	<0.0005	<0.0005
9/20/2016	<0.0005	0.0001 (J)	9E-05 (J)	<0.0005			
9/21/2016					<0.0005	<0.0005	<0.0005
11/7/2016	<0.0005	0.0001 (J)	0.0001 (J)	<0.0005		<0.0005	<0.0005
11/8/2016					<0.0005		
1/18/2017	<0.0005	0.0002 (J)	0.0002 (J)		<0.0005	<0.0005	
1/19/2017				<0.0005			<0.0005
2/21/2017	<0.0005	0.0002 (J)				<0.0005	
2/22/2017				<0.0005	<0.0005		<0.0005
2/23/2017			0.0002 (J)				
5/3/2017		0.0002 (J)					
5/5/2017					<0.0005	<0.0005	
5/8/2017	<0.0005		0.0002 (J)	<0.0005			<0.0005
6/30/2017			0.0002 (J)	<0.0005			
7/5/2017					<0.0005		<0.0005
7/7/2017						<0.0005	
7/10/2017	<0.0005	0.0002 (J)					
3/29/2018			<0.0005	<0.0005			<0.0005
3/30/2018	<0.0005	<0.0005			<0.0005	<0.0005	
2/27/2019	<0.0005	0.00018 (J)	0.00022 (J)	<0.0005	<0.0005	<0.0005	<0.0005
4/1/2019			0.00022 (J)	<0.0005	<0.0005		<0.0005
4/2/2019	<0.0005	0.00015 (J)				<0.0005	
9/25/2019	<0.0005	0.00011 (J)					<0.0005
9/26/2019			0.0002 (J)	<0.0005	<0.0005	<0.0005	
2/13/2020	<0.0005	0.00015 (J)	0.00021 (J)	<0.0005	<0.0005	<0.0005	<0.0005
3/19/2020		0.00012 (J)			<0.0005	<0.0005	
3/20/2020	<0.0005		0.00023 (J)	<0.0005			<0.0005
9/24/2020	<0.0005	8.5E-05 (J)	0.00019 (J)	<0.0005	<0.0005	<0.0005	<0.0005
2/10/2021	<0.0005	0.00013 (J)	0.00014 (J)	6.6E-05 (J)			
2/11/2021					<0.0005		
2/12/2021						<0.0005	<0.0005
3/2/2021		0.00016 (J)					
3/3/2021	<0.0005		0.00013 (J)	<0.0005	<0.0005	<0.0005	<0.0005
8/19/2021		8.2E-05 (J)					
8/20/2021	<0.0005		8.6E-05 (J)	0.00011 (J)	<0.0005	<0.0005	<0.0005
2/8/2022				<0.0005	<0.0005	<0.0005	<0.0005
2/10/2022	<0.0005	9.3E-05 (J)	0.00013 (J)				

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.0005	<0.0005			
6/7/2016		<0.0005			<0.0005	<0.0005	
7/27/2016		<0.0005	<0.0005	<0.0005	<0.0005		
7/28/2016						<0.0005	
8/30/2016	<0.0005						
9/16/2016		<0.0005		<0.0005			
9/19/2016			<0.0005		<0.0005	<0.0005	
11/2/2016					<0.0005		
11/3/2016		<0.0005	<0.0005	<0.0005		<0.0005	
11/14/2016	<0.0005						
1/11/2017		<0.0005	<0.0005	<0.0005			
1/13/2017					<0.0005	<0.0005	
2/24/2017	<0.0005						
3/1/2017			<0.0005	<0.0005			
3/2/2017		8E-05 (J)					
3/6/2017					<0.0005	<0.0005	
4/26/2017			<0.0005	<0.0005	<0.0005	<0.0005	
5/2/2017		<0.0005					
5/8/2017	7E-05 (J)						
6/28/2017			<0.0005	<0.0005			
6/29/2017		<0.0005			<0.0005	<0.0005	
7/11/2017	<0.0005						
10/10/2017	<0.0005						
10/11/2017							<0.0005
11/20/2017							<0.0005
1/11/2018							<0.0005
2/20/2018							<0.0005
3/28/2018		<0.0005	<0.0005	<0.0005			
3/29/2018					<0.0005	<0.0005	
4/2/2018	<0.0005						
4/3/2018							<0.0005
6/5/2018						<0.0005	
6/6/2018					8E-05 (J)		
6/7/2018			<0.0005				
6/11/2018		9E-05 (J)		5.7E-05 (J)			
6/28/2018							<0.0005
8/7/2018							<0.0005
9/19/2018	5.7E-05 (J)						
9/24/2018							<0.0005
9/25/2018		8.9E-05 (J)	<0.0005	8.2E-05 (J)	6.1E-05 (J)	<0.0005	
3/5/2019		9.1E-05 (J)		7.9E-05 (J)	0.00011 (J)	<0.0005	
3/6/2019			<0.0005				
4/2/2019		9E-05 (J)				<0.0005	
4/3/2019			<0.0005	7.5E-05 (J)	6.4E-05 (J)		
8/20/2019	<0.0005						
8/21/2019							<0.0005
9/24/2019						<0.0005	
9/25/2019		8.1E-05 (J)	-0.0005	0.45.05.43	<0.0005		
9/26/2019			<0.0005	8.4E-05 (J)			-0.0005
10/9/2019		7.05.05.45	-0.0005	7.05.05.43			<0.0005
2/11/2020		7.8E-05 (J)	<0.0005	7.6E-05 (J)	7.85.05.(1)	<0.000E	<0.0005
2/12/2020					7.8E-05 (J)	<0.0005	<0.0005

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/24/2020		8E-05 (J)	<0.0005	8.9E-05 (J)	7.6E-05 (J)	<0.0005	
3/25/2020							<0.0005
8/27/2020	4.7E-05 (J)						
9/22/2020	<0.0005						
9/23/2020		8.1E-05 (J)	<0.0005	8.8E-05 (J)			
9/24/2020					8.3E-05 (J)	<0.0005	<0.0005
2/9/2021			<0.0005	9.8E-05 (J)	6.8E-05 (J)	<0.0005	
2/10/2021							5.1E-05 (J)
3/1/2021	5.5E-05 (J)						
3/3/2021		9.9E-05 (J)	<0.0005	0.00011 (J)	6.8E-05 (J)		
3/4/2021						<0.0005	<0.0005
8/19/2021	<0.0005						
8/26/2021				9.3E-05 (J)			<0.0005
8/27/2021		0.0001 (J)	<0.0005		5.9E-05 (J)		
9/1/2021						<0.0005	
2/8/2022	5.6E-05 (J)						<0.0005
2/9/2022		0.00011 (J)	<0.0005	8.9E-05 (J)	7.7E-05 (J)	<0.0005	

					,
	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
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
3/10/2011					<0.0005
9/8/2011					<0.0005
3/5/2012					<0.0005
9/10/2012					<0.0005
2/6/2013					<0.0005
8/12/2013					<0.0005
2/5/2014					<0.0005
8/5/2014					<0.0005
2/4/2015					<0.0005
8/3/2015					<0.0005
2/16/2016					<0.0005
6/2/2016		<0.0005	<0.0005	<0.0005	
7/26/2016 8/31/2016		<0.0005	<0.0005	<0.0005	<0.0005
9/14/2016		<0.0005	<0.0005	<0.0005	<0.0005
11/2/2016		<0.0005	<0.0005	10.0003	
11/4/2016		-0.0000	-0.0000	<0.0005	
11/28/2016				0.000	<0.0005
1/12/2017			<0.0005	<0.0005	
1/13/2017		<0.0005			
2/22/2017					<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					<0.0005
6/27/2017			<0.0005	<0.0005	
6/29/2017		<0.0005			
7/17/2017					<0.0005
10/12/2017	0.0002 (J)				
10/16/2017					<0.0005
11/20/2017	0.0003 (J)				
1/10/2018	0.0003 (J)				
2/19/2018	<0.0005				<0.0005
3/29/2018		<0.0005	<0.0005	<0.0005	
4/3/2018	<0.0005				
6/6/2018		.0.00-	<0.0005	.0.00-	
6/7/2018	0.00000 / "	<0.0005		<0.0005	
6/28/2018	0.00029 (J)				<0.0005
8/6/2018 8/7/2018	0.0003471				<0.0005
8/7/2018	0.00024 (J)				
9/24/2018 9/26/2018	0.00019 (J)	<0.0005	<0.0005	<0.0005	
2/25/2019		-0.0003	-0.0003	-0.0003	<0.0005
2.25.2010					2.3000

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.0005	<0.0005	<0.0005	
4/3/2019		<0.0005	<0.0005	<0.0005	
6/12/2019					<0.0005
8/19/2019					<0.0005
8/21/2019	0.0002 (J)				
9/24/2019			<0.0005	<0.0005	
9/25/2019		<0.0005			
10/8/2019					<0.0005
10/9/2019	0.0002 (J)				
2/12/2020	0.00018 (J)	<0.0005	<0.0005	<0.0005	
3/17/2020					<0.0005
3/24/2020	0.00022 (J)		<0.0005	<0.0005	
3/25/2020		<0.0005			
8/26/2020					<0.0005
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)				
3/2/2021			<0.0005	<0.0005	<0.0005
3/3/2021		<0.0005			
3/4/2021	0.00021 (J)				
8/20/2021					<0.0005
8/26/2021		<0.0005	<0.0005	<0.0005	
9/3/2021	0.00024 (J)				
2/8/2022	0.00028 (J)				<0.0005
2/10/2022			<0.0005	<0.0005	
2/11/2022		<0.0005			

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016	(0,	<0.04	<0.04	(0)	(0)	(0,	<0.04
6/2/2016	<0.04				<0.04	<0.04	
7/25/2016			<0.04		<0.04		<0.04
7/26/2016	0.0177 (J)	0.0055 (J)				0.0097 (J)	
9/13/2016		<0.04	<0.04				
9/14/2016				<0.04			<0.04
9/15/2016	0.0214 (J)					0.0102 (J)	
9/19/2016	(-)				<0.04	(3)	
11/1/2016		0.0086 (J)			<0.04	<0.04	<0.04
11/2/2016	<0.04						
11/4/2016			<0.04	<0.04			
12/15/2016				0.0107 (J)			
1/10/2017	0.0198 (J)			(0)			
1/11/2017	(0)	0.0074 (J)				<0.04	<0.04
1/16/2017		0.007 1 (0)	<0.04	<0.04	<0.04		5.5
2/21/2017			-0.04	-0.0-	<0.04		
3/1/2017					-0.07		<0.04
3/2/2017		0.008 (J)	<0.04			0.0084 (J)	5.5
3/3/2017		3.000 (0)	-0.04	<0.04		3.555-1 (0)	
3/8/2017	0.0189 (J)			~0.04			
4/26/2017	0.0169 (J) 0.0161 (J)				<0.04	<0.04	<0.04
4/27/2017	0.0101 (3)	0.0066 (1)	<0.04		~0.04	~0.04	V0.04
		0.0066 (J)	<0.04	-0.04			
4/28/2017				<0.04			
5/26/2017 6/27/2017		0.0007 (1)	0.006 (1)	<0.04			
		0.0087 (J)	0.006 (J)	-0.04		-0.04	20.04
6/28/2017 6/30/2017	0.0172 (1)			<0.04	<0.04	<0.04	<0.04
10/3/2017	0.0173 (J)	0.0072 (1)	0.0071 (1)	<0.04	\0.04		
10/3/2017		0.0072 (J)	0.0071 (J)	<0.04	<0.04	<0.04	<0.04
	0.0173 (1)				<0.04	<0.04	V0.04
10/5/2017 6/5/2018	0.0173 (J)	0.0052 (1)					
6/6/2018		0.0052 (J)	<0.04				
6/7/2018			\0.04	<0.04		0.004 (1)	
	0.012 (1)			<0.04		0.004 (J)	20.04
6/8/2018 6/11/2018	0.013 (J)				0.014 (J)		<0.04
	0.015 (1)	0.021 (1)	0.0040 (1)	<0.04	0.014 (3)	<0.04	<0.04
10/1/2018 10/2/2018	0.015 (J)	0.021 (J)	0.0049 (J)	<0.04	<0.04	<0.04	<0.04
3/28/2019		0.005 (J)	<0.04		~U.U4		
3/29/2019	0.014 (J)	0.000 (0)	\U.U4	0.0065 (J)			
4/1/2019	0.014 (3)			0.0003 (3)	<0.04	<0.04	<0.04
9/24/2019		0.006471	0.0055 (1)	0.0076 (1)	~U.U4	~ U.U4	\U.U 4
	0.019 / 1	0.0064 (J)	0.0055 (J)	0.0076 (J)	<0.04	0.005471	<0.04
9/25/2019	0.018 (J)		0.0087 / 1		<0.04	0.0054 (J)	<0.04
3/18/2020	0.02 (J)	0.0095 / 1)	0.0087 (J)	0.0072 / 1	0.005271	0.0072 / 1\	0.0052 (1)
3/19/2020		0.0085 (J)	<0.04	0.0073 (J)	0.0052 (J)	0.0073 (J)	0.0053 (J)
9/23/2020		<0.04	<0.04	<0.04	0.0075 / 1	0.012 (J)	0.0073 (J)
9/24/2020	0.02 (1)				0.0075 (J)		
9/25/2020	0.02 (J)				-0.04		
3/1/2021	0.017 / 15				<0.04		
3/2/2021	0.017 (J)	-0.04	-0.04	-0.04		-0.04	-0.04
3/3/2021	0.010 / 15	<0.04	<0.04	<0.04	-0.04	<0.04	<0.04
8/19/2021	0.018 (J)	<0.04	<0.04	-0.04	<0.04	<0.04	-0.04
8/27/2021				<0.04			<0.04

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Time Series

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		<0.04	<0.04	<0.04		0.01 (J)	<0.04
2/10/2022	0.02 (J)						
2/11/2022					<0.04		

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.97	0.62	2.2	1.3			
6/9/2016					2.2	2.3	0.88
8/1/2016	0.932	0.643	2	1.36			
8/2/2016					2.22	2.21	0.872
9/20/2016	1.04	0.644	2.02	1.69			
9/21/2016					2.65	2.54	0.853
11/7/2016	0.852	0.621	1.91	1.35		2.49	0.815
11/8/2016					2.44		
1/18/2017	0.972	0.607	1.69		1.88	2.04	
1/19/2017				1.15			0.803
2/21/2017	0.972	0.624				2.29	
2/22/2017				1.3	2.05		0.855
2/23/2017			1.76				
5/3/2017		0.676					
5/5/2017					3.01	3.41	
5/8/2017	1.05		2	1.51			0.884
6/30/2017			2.28	1.47			
7/5/2017					2.7		0.811
7/7/2017						3.01	
7/10/2017	0.855	0.58					
10/5/2017					2.53		0.851
10/6/2017				1.31			
10/9/2017			1.82			2.76	
10/10/2017	0.887	0.612					
6/11/2018							0.9
6/12/2018				1.6	2.8	2.9	
6/13/2018	0.86	0.67	2.2				
10/2/2018	0.93	0.62	1.9	1.4			0.81
10/3/2018					2.3	2.4	
4/1/2019			2.4	1.4	2.7		0.85
4/2/2019	0.9	0.63				2.9	
9/25/2019	0.86	0.63					0.73
9/26/2019			1.9	1.5	2.8	2.5	
3/19/2020		0.73			2.4	2.5	
3/20/2020	0.94		2.1	1.4			0.8
9/24/2020	0.76	0.74	2.3	1.3	2.1	2.6	0.84
3/2/2021		0.57					
3/3/2021	0.69		2	1.2	1.8	2.3	0.62
8/19/2021		0.71					
8/20/2021	0.72		2.5	1.2	2.3	2.5	0.66
2/8/2022				1.1	2.4	2.4	0.71
2/10/2022	0.79	0.79	2.5				

		YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016	6			<0.04	<0.04			
6/7/2016	6		<0.04			<0.04	<0.04	
7/27/201	16		0.008 (J)	<0.04	0.0059 (J)	<0.04		
7/28/201	16						<0.04	
8/30/201	16	0.0166 (J)						
9/16/201	16		0.0086 (J)		0.0079 (J)			
9/19/201	16			<0.04		<0.04	<0.04	
11/2/201	16					<0.04		
11/3/201	16		0.0077 (J)	<0.04	0.0082 (J)		<0.04	
11/14/20		0.0166 (J)	. ,		, ,			
1/11/201	17		0.0092 (J)	<0.04	0.0096 (J)			
1/13/201	17		. ,		, ,	<0.04	<0.04	
2/24/201		0.0145 (J)						
3/1/2017		(1)		<0.04	<0.04			
3/2/2017			0.0095 (J)					
3/6/2017						<0.04	<0.04	
4/26/201				<0.04	0.0091 (J)	<0.04	<0.04	
5/2/2017			<0.04				=== *	
5/8/2017		0.0141 (J)	10.04					
6/28/201		0.0141 (3)		<0.04	0.0079 (J)			
6/29/20			0.0074 (J)	10.04	0.0073 (3)	<0.04	<0.04	
7/11/201		0.0121 / 1\	0.0074 (3)			~0.04	~0.04	
		0.0131 (J)					<0.04	
10/3/201 10/4/201			0.0077 (J)		0.009 (J)	<0.04	<0.04	
			0.0077 (3)	~ 0.04	0.009 (3)	<0.04		
10/5/201		0.0124 (1)		<0.04				
10/10/20		0.0124 (J)						0.0125 / 1)
10/11/20								0.0135 (J)
11/20/20								0.0251 (J)
1/11/201								0.0255 (J)
2/20/201		0.040 (1)						<0.04
4/2/2018		0.013 (J)						
4/3/2018								0.033 (J)
6/5/2018							0.0092 (J)	
6/6/2018						0.0049 (J)		
6/7/2018				<0.04				
6/11/201			0.01 (J)		0.0093 (J)			
6/28/201								0.053
8/7/2018								0.024 (J)
9/19/201		0.012 (J)						
9/24/201								0.028 (J)
9/25/201			0.0096 (J)	0.0046 (J)	0.007 (J)	<0.04	0.0054 (J)	
3/27/201		0.013 (J)						0.017 (J)
4/2/2019			0.0066 (J)				0.011 (J)	
4/3/2019				<0.04	0.0053 (J)	<0.04		
9/24/201							0.018 (J)	
9/25/201			0.0081 (J)			<0.04		
9/26/201				0.0062 (J)	0.0072 (J)			
10/8/201		0.012 (J)						
10/9/201								0.017 (J)
3/17/202	20	0.023 (J)						
3/24/202			0.0092 (J)	0.0054 (J)	0.01 (J)	<0.04	0.016 (J)	
3/25/202	20							0.043 (J)

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	0.0076 (J)						
9/23/2020		0.0066 (J)	0.021 (J)	0.006 (J)			
9/24/2020					0.0094 (J)	0.013 (J)	0.037 (J)
3/1/2021	0.013 (J)						
3/3/2021		0.01 (J)	<0.04	0.0094 (J)	<0.04		
3/4/2021						0.0079 (J)	0.033 (J)
8/19/2021	0.011 (J)						
8/26/2021				<0.04			0.095
8/27/2021		0.011 (J)	<0.04		<0.04		
9/1/2021						<0.04	
2/8/2022	0.015 (J)						0.13
2/9/2022		0.0098 (J)	<0.04	<0.04	<0.04	<0.04	

0.0401 0.156	<0.04 0.0047 (J) <0.04 <0.04 <0.04 <0.04 <0.04	<0.04 0.0052 (J) 0.0071 (J) <0.04 0.0076 (J) 0.0089 (J) 0.0061 (J) 0.0079 (J)	<0.04 <0.04 0.01 (J) <0.04 <0.04 <0.04	0.0315 (J) 0.0095 (J) <0.04
	<0.04 <0.04 <0.04 <0.04 <0.04	0.0071 (J) <0.04 0.0076 (J) 0.0089 (J) 0.0061 (J)	0.01 (J) <0.04 <0.04 <0.04 <0.04 <0.04	0.0095 (J) <0.04 0.0084 (J)
	<0.04 <0.04 <0.04 <0.04	<0.04 0.0076 (J) 0.0089 (J) 0.0061 (J) 0.0079 (J)	<0.04 <0.04 <0.04 <0.04 <0.04	0.0095 (J) <0.04 0.0084 (J)
	<0.04 <0.04 <0.04 <0.04	<0.04 0.0076 (J) 0.0089 (J) 0.0061 (J) 0.0079 (J)	<0.04 <0.04 <0.04 <0.04 <0.04	<0.04 0.0084 (J)
	<0.04 <0.04 <0.04	0.0076 (J) 0.0089 (J) 0.0061 (J) 0.0079 (J)	<0.04 <0.04 <0.04 <0.04	<0.04 0.0084 (J)
	<0.04 <0.04 <0.04	0.0089 (J) 0.0061 (J) 0.0079 (J)	<0.04 <0.04 <0.04 <0.04	<0.04 0.0084 (J)
	<0.04 <0.04 <0.04	0.0089 (J) 0.0061 (J) 0.0079 (J)	<0.04 <0.04 <0.04	<0.04 0.0084 (J)
	<0.04 <0.04 <0.04	0.0089 (J) 0.0061 (J) 0.0079 (J)	<0.04 <0.04 <0.04	0.0084 (J)
	<0.04 <0.04 <0.04	0.0061 (J) 0.0079 (J)	<0.04	0.0084 (J)
	<0.04	0.0061 (J) 0.0079 (J)	<0.04	0.0084 (J)
	<0.04	0.0061 (J) 0.0079 (J)	<0.04	0.0084 (J)
	<0.04	0.0061 (J) 0.0079 (J)	<0.04	
	<0.04	0.0061 (J) 0.0079 (J)	<0.04	
	<0.04	0.0079 (J)	<0.04	
			<0.04	
				0.0002 / 15
		0.0094 (J)	-0.04	0.000277
	<0.04	0.0094 (J)	z0.04	0.0000 ()
	<0.04	0.0094 (J)	-O O 4	0.0092 (J)
	<0.04		<0.04	
0.156				
0.156				<0.04
0.15				
0.146				<0.04
0.12				
		0.0098 (J)		
	0.0045 (J)		<0.04	
0.16				
				<0.04
0.12				
	0.005 (J)	0.01 (J)	0.0057 (J)	
	(-/	\-/	(-)	<0.04
0.096				0.0 .
5.550	0.0055 (1)	0.0076 (4)	0.0044 (1)	
	3.5555 (0)	0.0070(0)	3.5044 (0)	<0.04
		0.0171	0.0049 (1)	50.U 4
	<0.04	0.01 (3)	0.0049 (J)	
	~ 0.04			<0.04
0.070				<0.04
0.079				0.0054.45
				0.0051 (J)
0.088 (J)		0.011 (J)	0.0068 (J)	
	0.011 (J)			
	<0.04	0.0079 (J)	0.0053 (J)	0.0079 (J)
0.087 (J)				
		0.0068 (J)	0.011 (J)	<0.04
	0.0056 (J)			
0.078				
				<0.04
	<0.04	0.009 (J)	<0.04	
0.077				
	0.12 0.099 0.096 0.079 0.088 (J) 0.087 (J)	0.16 0.12 0.099 0.005 (J) 0.096 0.0055 (J) <0.04 0.079 0.088 (J) 0.011 (J) <0.04 0.087 (J) 0.0056 (J) 0.078 <0.04	0.0045 (J) 0.16 0.12 0.099 0.005 (J) 0.001 (J) 0.0076 (J) -0.079 0.088 (J) 0.011 (J) -0.04 0.0079 (J) 0.011 (J) -0.04 0.0079 (J) 0.0079 (J) 0.0078 -0.004 0.009 (J)	0.16 0.12 0.099 0.005 (J) 0.0079 0.0088 (J) 0.0087 (J) 0.0087 (J) 0.0078 <

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Time Series

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2022	0.074				<0.04
2/10/2022			0.011 (J)	<0.04	
2/11/2022		<0.04			

6/1/2016	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016 6/2/2016	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005
7/25/2016	~0.0003		<0.0005		<0.0005	~0.0003	<0.0005
7/26/2016	<0.0005	<0.0005	~0.0003		~0.0003	<0.0005	<0.0003
9/13/2016	~0.0003	<0.0005	<0.0005			~0.0003	
9/14/2016		<0.0005	<0.0005	<0.0005			<0.0005
9/15/2016	<0.0005			<0.0003		<0.0005	<0.0003
9/19/2016	<0.0005				<0.0005	<0.0005	
		<0.0005			<0.0005	<0.0005	<0.0005
11/1/2016 11/2/2016	<0.0005	<0.0005			<0.0005	<0.0005	<0.0005
11/4/2016	~0.0003		<0.0005	<0.0005			
12/15/2016			<0.0003	<0.0005			
1/10/2017	<0.0005			<0.0003			
1/11/2017	<0.0005	0.0002 (J)				0.0001 (J)	8E-05 (J)
1/11/2017		0.0002 (3)	<0.000E	<0.0005	<0.0005	0.0001 (3)	8E-03 (J)
			<0.0005	<0.0005	<0.0005		
2/21/2017 3/1/2017					<0.0005		<0.0005
		<0.000E	<0.000E			<0.000E	<0.0005
3/2/2017		<0.0005	<0.0005	-0.0005		<0.0005	
3/3/2017	7E 0E (I)			<0.0005			
3/8/2017	7E-05 (J)				-0.0005	-0.0005	-0.0005
4/26/2017	<0.0005	10.0005	-0.0005		<0.0005	<0.0005	<0.0005
4/27/2017		<0.0005	<0.0005	.0.0005			
4/28/2017				<0.0005			
5/26/2017		0.0005	.0.0005	<0.0005			
6/27/2017		<0.0005	<0.0005	.0.005		.0.005	.0.005
6/28/2017	-0.0005			<0.0005	-0.0005	<0.0005	<0.0005
6/30/2017	<0.0005		0.0005		<0.0005		
3/27/2018	<0.0005		<0.0005	-0.0005	<0.0005	-0.0005	-0.0005
3/28/2018		0.0005		<0.0005		<0.0005	<0.0005
3/29/2018	-0.0005	<0.0005			-0.0005		
2/26/2019	<0.0005	10.0005	-0.0005	-0.0005	<0.0005	-0.0005	-0.0005
2/27/2019		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
3/28/2019	0.0005	<0.0005	<0.0005	.0.0005			
3/29/2019	<0.0005			<0.0005	-0.0005	-0.0005	-0.0005
4/1/2019		10.0005	-0.0005	-0.0005	<0.0005	<0.0005	<0.0005
9/24/2019	-0.0005	<0.0005	<0.0005	<0.0005	-0.0005	-0.0005	-0.0005
9/25/2019	<0.0005	<0.000E	<0.0005		<0.0005	<0.0005	<0.0005
2/10/2020		<0.0005	<0.0005	<0.000E			<0.000E
2/11/2020	<0.000E			<0.0005	<0.000E	<0.000E	<0.0005
2/12/2020	<0.0005		<0.000E		<0.0005	<0.0005	
3/18/2020 3/19/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/23/2020		<0.0005	<0.0005	<0.0005	<0.0003	<0.0005	<0.0005
		<0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/24/2020 9/25/2020	<0.0005				<0.0003		
	<0.0005			<0.0005		<0.0005	<0.000E
2/10/2021 2/11/2021	~0.000			\0.0003	<0.0005	~U.UUU3	<0.0005
2/11/2021		<0.0005	<0.0005		~ 0.0000		
3/1/2021		×0.0003	<0.0005		<0.0005		
3/1/2021	<0.0005				~0.000J		
3/3/2021	~0.000J	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
8/19/2021	<0.0005	<0.0005	<0.0005	-0.0003	<0.0005	<0.0005	~0.0000
0,10,2021	-0.0000	-0.0000	-0.0000		-0.0000	-0.0000	

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.0005			<0.0005
2/9/2022		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
2/10/2022	<0.0005						
2/11/2022					<0.0005		

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.0005	<0.0005	<0.0005	<0.0005			
6/9/2016					0.00055 (J)	<0.0005	<0.0005
8/1/2016	<0.0005	<0.0005	<0.0005	<0.0005			
8/2/2016					0.0001 (J)	<0.0005	0.0001 (J)
9/20/2016	<0.0005	<0.0005	<0.0005	<0.0005			
9/21/2016					0.0001 (J)	<0.0005	0.0002 (J)
11/7/2016	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	0.0002 (J)
11/8/2016					9E-05 (J)		
1/18/2017	<0.0005	<0.0005	<0.0005		9E-05 (J)	<0.0005	
1/19/2017				<0.0005			0.0001 (J)
2/21/2017	<0.0005	<0.0005				<0.0005	
2/22/2017				<0.0005	0.0001 (J)		0.0001 (J)
2/23/2017			<0.0005				
5/3/2017		<0.0005					
5/5/2017					9E-05 (J)	<0.0005	
5/8/2017	<0.0005		<0.0005	<0.0005			0.0002 (J)
6/30/2017			<0.0005	<0.0005			
7/5/2017					0.0002 (J)		0.0002 (J)
7/7/2017						<0.0005	
7/10/2017	<0.0005	<0.0005					
3/29/2018			<0.0005	<0.0005			<0.0005
3/30/2018	<0.0005	<0.0005			<0.0005	<0.0005	
2/27/2019	<0.0005	<0.0005	<0.0005	<0.0005	0.00014 (J)	<0.0005	0.00026 (J)
4/1/2019			<0.0005	<0.0005	0.00043 (J)		0.00022 (J)
4/2/2019	<0.0005	<0.0005				<0.0005	
9/25/2019	<0.0005	<0.0005					0.00024 (J)
9/26/2019			<0.0005	<0.0005	<0.0005	<0.0005	
2/13/2020	<0.0005	<0.0005	<0.0005	<0.0005	0.00013 (J)	<0.0005	0.00018 (J)
3/19/2020		<0.0005			0.00016 (J)	<0.0005	
3/20/2020	<0.0005		<0.0005	<0.0005			0.00022 (J)
9/24/2020	<0.0005	<0.0005	<0.0005	<0.0005	0.00027 (J)	<0.0005	0.00033 (J)
2/10/2021	<0.0005	<0.0005	<0.0005	<0.0005			
2/11/2021					0.00052 (J)		
2/12/2021						0.00048 (J)	<0.0005
3/2/2021		<0.0005					
3/3/2021	<0.0005		<0.0005	<0.0005	0.00014 (J)	<0.0005	0.00029 (J)
8/19/2021		<0.0005					
8/20/2021	<0.0005		<0.0005	<0.0005	0.00027 (J)	<0.0005	0.00027 (J)
2/8/2022				<0.0005	0.00033 (J)	<0.0005	0.00019 (J)
2/10/2022	<0.0005	<0.0005	<0.0005				

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.0005	<0.0005			
6/7/2016		<0.0005			<0.0005	<0.0005	
7/27/2016		<0.0005	<0.0005	<0.0005	<0.0005		
7/28/2016						<0.0005	
8/30/2016	0.0001 (J)						
9/16/2016		<0.0005		<0.0005			
9/19/2016			<0.0005		<0.0005	<0.0005	
11/2/2016					<0.0005		
11/3/2016		<0.0005	<0.0005	<0.0005		<0.0005	
11/14/2016	0.0001 (J)						
1/11/2017		0.0001 (J)	<0.0005	0.0001 (J)			
1/13/2017					<0.0005	<0.0005	
2/24/2017	9E-05 (J)						
3/1/2017			<0.0005	<0.0005			
3/2/2017		<0.0005					
3/6/2017					<0.0005	<0.0005	
4/26/2017			<0.0005	<0.0005	<0.0005	<0.0005	
5/2/2017		<0.0005					
5/8/2017	0.0001 (J)						
6/28/2017			<0.0005	<0.0005			
6/29/2017		<0.0005			<0.0005	<0.0005	
7/11/2017	<0.0005						
10/10/2017	<0.0005						
10/11/2017							<0.0005
11/20/2017							<0.0005
1/11/2018							<0.0005
2/20/2018							<0.0005
3/28/2018		<0.0005	<0.0005	<0.0005			
3/29/2018					<0.0005	<0.0005	
4/2/2018	<0.0005						
4/3/2018							<0.0005
6/5/2018						<0.0005	
6/6/2018					<0.0005		
6/7/2018			<0.0005				
6/11/2018		<0.0005		<0.0005			
6/28/2018							<0.0005
8/7/2018	-0.0005						<0.0005
9/19/2018	<0.0005						-0.0005
9/24/2018		<0.000E	<0.0005	<0.0005	<0.0005	0 6E 0E (I)	<0.0005
9/25/2018		<0.0005	<0.0005	<0.0005	<0.0005	9.6E-05 (J)	
3/5/2019		<0.0005	<0.000E	<0.0005	<0.0005	<0.0005	
3/6/2019 4/2/2019		<0.0005	<0.0005			<0.0005	
		<0.0003	<0.000E	<0.0005	<0.000E	<0.0003	
4/3/2019 8/20/2019	<0.0005		<0.0005	<0.0005	<0.0005		
	<0.0005						<0.0005
8/21/2019 9/24/2019						<0.0005	<0.0005
		<0.0005			<0.000E	~0.0003	
9/25/2019 9/26/2019		<0.0003	<0.0005	<0.0005	<0.0005		
10/8/2019	<0.0005		-0.0003	-0.0003			
10/8/2019	~0.000						<0.0005
2/11/2020		<0.0005	<0.0005	<0.0005			-0.0000
2/11/2020		~ 0.0003	~0.0003	-0.0003			

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					<0.0005	<0.0005	<0.0005
3/17/2020	<0.0005						
3/24/2020		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
3/25/2020							<0.0005
8/27/2020	<0.0005						
9/23/2020		<0.0005	<0.0005	<0.0005			
9/24/2020					<0.0005	<0.0005	<0.0005
2/9/2021			<0.0005	<0.0005	<0.0005	0.00041 (J)	
2/10/2021							0.00019 (J)
3/3/2021		<0.0005	<0.0005	<0.0005	<0.0005		
3/4/2021						<0.0005	0.0003 (J)
8/19/2021	<0.0005						
8/26/2021				<0.0005			0.00049 (J)
8/27/2021		<0.0005	<0.0005		<0.0005		
9/1/2021						<0.0005	
2/8/2022	<0.0005						0.00063
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	

					,
	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
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
3/10/2011					<0.0005
9/8/2011					<0.0005
3/5/2012					<0.0005
9/10/2012					<0.0005
2/6/2013					<0.0005
8/12/2013					<0.0005
2/5/2014					<0.0005
8/5/2014					<0.0005
2/4/2015					<0.0005
8/3/2015					<0.0005
2/16/2016					<0.0005
6/2/2016		<0.0005	<0.0005	<0.0005	
7/26/2016		<0.0005	<0.0005	<0.0005	
8/31/2016					<0.0005
9/14/2016		<0.0005	<0.0005	<0.0005	0.0000
11/2/2016		<0.0005	<0.0005	0.000	
11/4/2016		0.000	0.000	<0.0005	
11/28/2016				0.000	<0.0005
1/12/2017			<0.0005	9E-05 (J)	0.0000
1/13/2017		<0.0005	0.000	02 00 (0)	
2/22/2017		0.000			<0.0005
3/6/2017		<0.0005			-0.0000
3/7/2017		-0.0000	<0.0005	<0.0005	
5/1/2017		<0.0005	<0.0005	0.000	
5/2/2017		0.000	0.000	<0.0005	
5/8/2017				0.000	<0.0005
6/27/2017			<0.0005	<0.0005	-0.0000
6/29/2017		<0.0005	0.000	0.000	
7/17/2017		0.000			<0.0005
10/12/2017	<0.0005				0.0000
10/16/2017					<0.0005
11/20/2017	<0.0005				0.0000
1/10/2018	<0.0005				
2/19/2018	<0.0005				<0.0005
3/29/2018	-0.0000	<0.0005	<0.0005	<0.0005	-0.0000
4/3/2018	<0.0005	-0.0000	-0.0000	-0.0000	
6/6/2018	-0.0000		<0.0005		
6/7/2018		<0.0005		<0.0005	
6/28/2018	<0.0005				
8/6/2018	2.0000				<0.0005
8/7/2018	<0.0005				
9/24/2018	<0.0005				
9/26/2018	3.0000	<0.0005	<0.0005	<0.0005	
2/25/2019		5.0000	3.0000	3.0000	<0.0005
2.20/2010					0.0000

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.0005	<0.0005	<0.0005	
4/3/2019		<0.0005	<0.0005	<0.0005	
6/12/2019					<0.0005
8/19/2019					<0.0005
8/21/2019	<0.0005				
9/24/2019			<0.0005	<0.0005	
9/25/2019		<0.0005			
10/8/2019					<0.0005
10/9/2019	<0.0005				
2/12/2020	<0.0005	<0.0005	<0.0005	<0.0005	
3/17/2020					<0.0005
3/24/2020	<0.0005		<0.0005	<0.0005	
3/25/2020		<0.0005			
8/26/2020					<0.0005
9/22/2020		<0.0005	<0.0005	<0.0005	<0.0005
9/24/2020	<0.0005				
2/8/2021			<0.0005	<0.0005	
2/9/2021		<0.0005			
2/10/2021	<0.0005				
3/2/2021			<0.0005	<0.0005	<0.0005
3/3/2021		<0.0005			
3/4/2021	<0.0005				
8/20/2021					<0.0005
8/26/2021		<0.0005	<0.0005	<0.0005	
9/3/2021	<0.0005				
2/8/2022	<0.0005				<0.0005
2/10/2022			<0.0005	<0.0005	
2/11/2022		<0.0005			

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016	(3)	12	2.5	(3)	(0)	(0)	21
6/2/2016	1.3				1.3	28	
7/25/2016			2.16		1.17		20.3
7/26/2016	1.24	11				24.5	
9/13/2016		11.8	2.21				
9/14/2016				23.5			19.7
9/15/2016	1.17			20.0		27	10.7
9/19/2016	1.17				1.05	21	
11/1/2016		11			1.14	25.6	18.4
11/2/2016	1.23				1.14	25.0	10.4
11/4/2016	1.25		2.67	23.7			
			2.07				
12/15/2016	1.24			23.1			
1/10/2017	1.24	44.0				07.5	22.2
1/11/2017		11.2				27.5	20.3
1/16/2017			2.45	23.3	1.23		
2/21/2017					1.25		
3/1/2017							18.6
3/2/2017		11	2.57			27.5	
3/3/2017				25.1			
3/8/2017	1.21						
4/26/2017	1.14				1.03	30.4	25.6
4/27/2017		11.1	2.38				
4/28/2017				30.7			
5/26/2017				26.2			
6/27/2017		13.8	2.36				
6/28/2017				26.1		29.8	23.9
6/30/2017	1.24				1.13		
10/3/2017		14	2.21	26.7			
10/4/2017					1.09	29.7	22.1
10/5/2017	1.11						
6/5/2018		15.2 (J)					
6/6/2018			2.3				
6/7/2018				25		29.1	
6/8/2018	1.1						21.9 (J)
6/11/2018					1.1		
10/1/2018	0.99	15.1	1.8	25		26.9	19.7
10/2/2018					1.1		
3/28/2019		13.3 (J)	2.2				
3/29/2019	1.1			23.5 (J)			
4/1/2019					1.3	30.1	20.4 (J)
9/24/2019		15.8	2.3	26.4			
9/25/2019	1.1				1.1	29.5	22.4
3/18/2020	1.1		2.1				
3/19/2020		15		27.4	1.2	31.5	21.9
9/23/2020		14.1	1.8	26.3	·- -	28.6	23.6
9/24/2020			-		1.1		
9/25/2020	1.3				e e e		
3/1/2021	1.0				1.2		
3/2/2021	1.2				1.2		
	1.4	14.1	1 0	25.6		20.8	20.6
3/3/2021	1.0	14.1	1.8	25.6	1.0	29.8	20.6
8/19/2021 8/27/2021	1.2	14.2	2	22.6	1.2	28.1	24.7
				// h			24.7

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	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		14.9	2.1	23.4		30.3	23.7
2/10/2022	1.3						
2/11/2022					1.5		

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	15	13	25	44			
6/9/2016					36	26	12
8/1/2016	14.5	12.2	21.4	36.3			
8/2/2016					35.5	25.8	11.7
9/20/2016	15.3	12.2	26.3	39.5			
9/21/2016					33.2	24.9	11.1
11/7/2016	13.8	12.1	26.1	34.9		25.1	11.4
11/8/2016					33.8		
1/18/2017	15.1	11.5	25.6		33.4	26.1	
1/19/2017				37			12
2/21/2017	14.6	11.7				29	
2/22/2017				37.6	33.8		11.2
2/23/2017			28.2				
5/3/2017		11.9					
5/5/2017					33.5	28.1	
5/8/2017	15.2		27.2	35.7			11.2
6/30/2017			27.2	36.2			
7/5/2017					33.4		11.9
7/7/2017						28.6	
7/10/2017	17.4	12.7					
10/5/2017					36.4		12
10/6/2017				39.8			
10/9/2017			27.3			27.3	
10/10/2017	15.5	11.4					
6/11/2018							12.1
6/12/2018				36.2	33.4	26.4	
6/13/2018	15.5	12.5	29.4				
10/2/2018	14.7	12.4 (J)	29.2	39.1			11.7 (J)
10/3/2018					32.6	25.8	
4/1/2019			27.4	38	33.8		11.9 (J)
4/2/2019	16.1 (J)	11.9 (J)				25.7	
9/25/2019	15.6	11.6					10.7
9/26/2019			24.2	37.5	32	26.1	
3/19/2020		13			37.3	30.4	
3/20/2020	17.1		30.3	42.1			12.7
9/24/2020	16.9	11.3	27.9	38.6	34.3	30.8	12.4
3/2/2021		12.9					
3/3/2021	16.1		25.7	30.2	30.9	28.4	9.5
8/19/2021		11.5					
8/20/2021	17.2		25.7	29.9	33.1	27.8	10.2
2/8/2022				27.2	31.8	26.7	9.3
2/10/2022	16.4	11.6	27.4				

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			6.2	1.4			
6/7/2016		2.2			2.3	3.7	
7/27/2016		2	4.73	1.19	2.08		
7/28/2016						3.15	
8/30/2016	20.9						
9/16/2016		1.97		1.5			
9/19/2016			4.76		1.97	3.17	
11/2/2016					2.13		
11/3/2016		1.99	5.25	1.31		3.4	
11/14/2016	18.6						
1/11/2017		2.28	4.74	1.25			
1/13/2017					2.45	4.98	
2/24/2017	16.1						
3/1/2017			5.37	1.26			
3/2/2017		2.15					
3/6/2017					2.48	6.28	
4/26/2017			4.28	1.05	2.3	6.65	
5/2/2017		1.95					
5/8/2017	14.6						
6/28/2017			4.95	1.06			
6/29/2017		2.02			2.54	6.04	
7/11/2017	14.3	2.02			2.0 .	0.01	
10/3/2017	14.5					8.28	
10/4/2017		2.03		1.1	2.25	0.20	
10/4/2017		2.03	5.28	1.1	2.23		
10/10/2017	12.1		3.20				
10/10/2017	12.1						2.74
11/20/2017							1.81
1/11/2018							1.54
2/20/2018	-OF						1.71
4/2/2018	<25						4.4
4/3/2018						0.4	1.4
6/5/2018					0.0	9.1	
6/6/2018			4.0		2.3		
6/7/2018			4.8				
6/11/2018		2.1		1.4			
6/28/2018							1.4
8/7/2018							1.2
9/19/2018	11.1 (J)						
9/24/2018							1.1
9/25/2018		2.1	4.6	1	2.3	10.4 (J)	
3/27/2019	10.8 (J)						1.5
4/2/2019		2.5				8.8	
4/3/2019			5.3	1.2	2.9		
9/24/2019						7.7	
9/25/2019		2.6			2.4		
9/26/2019			4.9	1.1			
10/8/2019	9.7						
10/9/2019							2.4
3/17/2020	14.8						
3/24/2020		2.7	5.3	1	2.6	6	
3/25/2020							2.7

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	10.1						
9/23/2020		2.6	5.2	0.91 (J)			
9/24/2020					2.6	7.8	3.7
3/1/2021	10.3						
3/3/2021		2.5	5.2	0.96 (J)	2.4		
3/4/2021						8.7	8.2
8/19/2021	9.6						
8/26/2021				0.98 (J)			14.1
8/27/2021		2.7	5.1		2.4		
9/1/2021						9.5	
2/8/2022	9.4						15.2
2/9/2022		2.8	5.1	0.87 (J)	2.3	9.8	

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		8.8	33	2.4	
7/26/2016		7.69	32.3	2.12	
8/31/2016					9.31
9/14/2016		8.49	31	2.18	
11/2/2016		7.83	30.9		
11/4/2016				2.17 (J)	
11/28/2016				. ,	9.47 (B)
1/12/2017			35.7	2.37	(=/
1/13/2017		8.08	00.7	2.07	
2/22/2017		0.00			10.4
3/6/2017		9.64			10.4
		8.64	22.7	2.24	
3/7/2017		10.4	32.7	2.34	
5/1/2017		13.4	37		
5/2/2017				2.17	
5/8/2017					14.2
6/27/2017			36.5	2.13	
6/29/2017		8.81			
7/17/2017					14.1
10/3/2017			30.9	2.15	
10/5/2017		9.29			
10/12/2017	2.9				
10/16/2017					13.6
11/20/2017	10.4				
1/10/2018	10.2				
2/19/2018	<25				<25
4/3/2018	6.3				
6/6/2018			26.2		
6/7/2018		8.2		2.3	
6/28/2018	6.7				
8/6/2018	= ::				11.4 (J)
8/7/2018	6.3				11.7(0)
9/24/2018	5.7				
	5.7	0.5 (1)	25.0	2.2	
9/26/2018		9.5 (J)	25.8	2.3	10.77.
2/25/2019	F.C.				12.7 (J)
3/26/2019	5.6	0.4	0477	0.0	
4/3/2019		8.4	24.7 (J)	2.8	
6/12/2019					18.9
9/24/2019			25.8	2.5	
9/25/2019		9.5			
10/8/2019					28.3
10/9/2019	4.9				
3/17/2020					24.3
3/24/2020	4.8		26.1	2.5	
3/25/2020		10.5			
9/22/2020		9.6	27.2	2.6	31
9/24/2020	4.4				
3/2/2021			1.6	2.6	34.2
3/3/2021		7.7	-	-	
3/4/2021	4.6	***			
8/20/2021					26.5
		7.6	25.2	2.5	20.5
8/26/2021	F.C.	7.6	25.2	2.5	
9/3/2021	5.6				

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	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2022	6				25.6
2/10/2022			24.8	2.5	
2/11/2022		7.5			

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		1.3	1.6				1.3
6/2/2016	4.1				1.9	1.4	
7/25/2016			1.4		1.7		1.3
7/26/2016	4	1.2				1.6	
9/13/2016		1.1	1.3				
9/14/2016				1.1			1.3
9/15/2016	4.2					1.5	
9/19/2016					1.6		
11/1/2016		1.3				1.7	1.4
11/2/2016	4.9						
11/4/2016			1.6	1.4			
12/15/2016				2.9			
1/10/2017	4.1			2.0			
1/11/2017		1.1				1.2	1.1
1/16/2017			1.4	0.98	1.7	1.2	
2/21/2017			17		1.7		
3/1/2017					1.7		1.1
3/2/2017		1	1.3			1.2	1.1
3/3/2017				1.1		1.2	
3/8/2017	4.2			1.1			
					17	1.0	11
4/26/2017	4.1	_	4.0		1.7	1.2	1.1
4/27/2017		1	1.3	0.04			
4/28/2017				0.91			
5/26/2017				0.93			
6/27/2017		1.1	1.4				
6/28/2017				1		1.3	1.2
6/30/2017	3.7				1.8		
10/3/2017		1.1	1.7	1.2			
10/4/2017					1.8	1.5	1.2
10/5/2017	3.8						
6/5/2018		1.1					
6/6/2018			1.4				
6/7/2018				1		1.2	
6/8/2018	3.4						1.2
6/11/2018					2		
10/1/2018	3.8	1.1	1.4	1.1		1.5	1.2
10/2/2018					1.8		
3/28/2019		1.4	1.5				
3/29/2019	4.2			1.2			
4/1/2019					1.7	1.2	1.1
9/24/2019		1.1	1.3	0.95 (J)			
9/25/2019	4.8				1.6	1.1	1.1
3/18/2020	5.2		1.4				
3/19/2020		1.1		0.97 (J)	1.8	1.2	1.1
9/23/2020		0.99 (J)	1.2	0.88 (J)		1.1	1
9/24/2020					1.5		
9/25/2020	5.3						
3/1/2021					1.6		
3/2/2021	4.9						
3/3/2021		0.96 (J)	1.2	0.86 (J)		1.1	0.99 (J)
8/19/2021	5	1.1	1.3			1.1	
8/27/2021				0.99 (J)			1.1

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	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		1	1.3	1 (J)		1.1	1.1
2/10/2022	4.7						
2/11/2022					2.1		

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	19	18	14	22			
6/9/2016					18	19	15
8/1/2016	17	16	13	21			
8/2/2016					18	18	14
9/20/2016	18	18	13	22			
9/21/2016					18	19	14
11/7/2016	17	16	14	24		20	14
11/8/2016					18		
1/18/2017	19	17	14		18	20	
1/19/2017				22			14
2/21/2017	18	16				19	
2/22/2017				21	18		13
2/23/2017			14				
5/3/2017		17					
5/5/2017					19	21	
5/8/2017	18		14	22			15
6/30/2017			14	21			
7/5/2017					18		14
7/7/2017						20	
7/10/2017	19	15					
10/5/2017					19		15
10/6/2017				21			
10/9/2017			14			20	
10/10/2017	19	15					
6/11/2018							13.6
6/12/2018				19.8	17.6	19.3	
6/13/2018	18.1	14.2	13.1				
10/2/2018	18.3	14	13.8	19.9			13.4
10/3/2018					17.7	20.2	
4/1/2019			14.2	19.7	17.2		13.1
4/2/2019	17.9	13.5				19.5	
9/25/2019	17.1	14.4					11.3
9/26/2019			14.3	19.6	17.3	19.5	
3/19/2020		15.4			16	18.1	
3/20/2020	17.7		13	17.7			11.3
9/24/2020	17.1	15.7	13.3	17	15.1	18	10.9
3/2/2021		13.2					
3/3/2021	16.6		13	4	14.6	18	6.7
8/19/2021		13.5					
8/20/2021	14.4		13.7	15.2	15.2	18.1	6.8
2/8/2022				13	15.2	18.3	5.5
2/10/2022	15.4	14	13.1				

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			6.8	6.4			
6/7/2016		4.5			1.9	2.8	
7/27/2016		4.5	6.7	6.2	1.9		
7/28/2016						2.6	
8/30/2016	5.2						
9/16/2016		4.5		6.1			
9/19/2016			7		1.9	2.4	
11/2/2016					2.6		
11/3/2016		5.4	7.5	7.4		2.9	
11/14/2016	6.4						
1/11/2017		4.7	6.5	6.1			
1/13/2017					2.3	2.5	
2/24/2017	5.5						
3/1/2017			6.9	6			
3/2/2017		4.8					
3/6/2017					1.9	2.1	
4/26/2017			7	6.5	2	2.1	
5/2/2017		4.6					
5/8/2017	5.8						
6/28/2017			7	6.4			
6/29/2017		4.5			2.6	2.8	
7/11/2017	5.8						
10/3/2017						2.2	
10/4/2017		4.7		6.8	2.6		
10/5/2017			7				
10/10/2017	5.9						
10/11/2017							2.4
11/20/2017							1.8
1/11/2018							1.6
2/20/2018							2
4/2/2018	4.8						
4/3/2018							3.3
6/5/2018						1.7	
6/6/2018					2.7		
6/7/2018			6.8				
6/11/2018		4.9		6.8			
6/28/2018							2.1
8/7/2018							1.2
9/19/2018	4						
9/24/2018							1.3
9/25/2018		5.6	7.9	7.8	3.6	2.2	
3/27/2019	4.3						1.4
4/2/2019		4.8				2.5	
4/3/2019			6.9	6.3	3.1		
9/24/2019						3.1	
9/25/2019		5.7			2.8		
9/26/2019			7	7.1			
10/8/2019	4.4						
10/9/2019							2.1
3/17/2020	4.1						
3/24/2020		5	7	6.8	2.7	2.8	
3/25/2020							1.9

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	4.2						
9/23/2020		6.6	7.2	7.2			
9/24/2020					2.7	2	2.7
3/1/2021	3.7						
3/3/2021		7.1	7	7.2	2.7		
3/4/2021						1.8	4.9
8/19/2021	3.5						
8/26/2021				7.3			7.2
8/27/2021		8.5	7.4		2.8		
9/1/2021						1.8	
2/8/2022	3.2						7.4
2/9/2022		10.9	7.5	7	2.8	1.7	

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016	(0,	3.7	7.2	4.3	(0)
7/26/2016		3.6	6.6	4.4	
8/31/2016					4
9/14/2016		3.4	6.6	3.8	
11/2/2016		4.5	7.6		
11/4/2016			7.0	4.8	
11/28/2016					4.2
1/12/2017			6.8	3.8	
1/13/2017		4.2	0.0	0.0	
2/22/2017		7.2			3.7
3/6/2017		3.6			•
3/7/2017		0.0	6.8	4.5	
5/1/2017		4.3	7.2	4.0	
5/2/2017			7.2	4.6	
5/8/2017				4.0	4.2
6/27/2017			7	4.3	7.4
6/29/2017		4.2	,	4.5	
7/17/2017		4.2			3.8
10/3/2017			6.5	4.2	3.0
10/5/2017		4.7	0.5	4.2	
	2 0	4.7			
10/12/2017	3.8				4.2
10/16/2017	4.4				4.2
11/20/2017	4.4				
1/10/2018	4.6				42
2/19/2018	4.6				4.3
4/3/2018	5.9		4.7		
6/6/2018			4.7	4.5	
6/7/2018	_	4.4		4.5	
6/28/2018	5				
8/6/2018					3.8
8/7/2018	4.3				
9/24/2018	4.9				
9/26/2018		4.8	4.8	5.1	
2/25/2019					4.1
3/26/2019	4.4				
4/3/2019		4.3	4	4.2	
6/12/2019					4.7
9/24/2019			3.7	4.5	
9/25/2019		4.5			
10/8/2019					5.1
10/9/2019	5.1				
3/17/2020					4.8
3/24/2020	4.7		3.5	4.3	
3/25/2020		3.9			
9/22/2020		4.5	3.6	4.2	4.2
9/24/2020	5				
3/2/2021			3.2	4.3	4.1
3/3/2021		4.1			
3/4/2021	4.9				
8/20/2021					5.2
8/26/2021		4.4	3.4	4.3	
9/3/2021	5.5				

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Time Series

YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6.2				5.7
		3.2	4.4	
	4.1			
	(0,	6.2	6.2	6.2

0/4	0010	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
	2016	.0.005	0.0035	<0.005		.0.005	0.0010 (1)	<0.005
	2016	<0.005		0.005		<0.005	0.0013 (J)	0.005
	5/2016	.0.005	.0.005	<0.005		<0.005	.0.005	<0.005
	5/2016	<0.005	<0.005				<0.005	
	3/2016		<0.005	<0.005				
	1/2016				<0.005			<0.005
	5/2016	<0.005					<0.005	
	9/2016					<0.005		
	/2016		<0.005			<0.005	<0.005	<0.005
	2/2016	<0.005						
11/4	1/2016			<0.005	<0.005			
12/1	5/2016				<0.005			
1/10)/2017	<0.005						
1/11	/2017		<0.005				<0.005	<0.005
1/16	5/2017			<0.005	<0.005	<0.005		
2/21	/2017					<0.005		
3/1/2	2017							0.0004 (J)
3/2/	2017		0.0009 (J)	0.0004 (J)			0.0006 (J)	
3/3/2	2017				0.0005 (J)			
3/8/	2017	<0.005						
4/26	5/2017	<0.005				0.0016 (J)	<0.005	<0.005
4/27	7/2017		<0.005	<0.005				
4/28	3/2017				0.0004 (J)			
5/26	5/2017				<0.005			
6/27	7/2017		<0.005	<0.005				
6/28	3/2017				<0.005		<0.005	<0.005
6/30)/2017	<0.005				<0.005		
3/27	7/2018	<0.005		<0.005		<0.005		
3/28	3/2018				<0.005		<0.005	<0.005
3/29	9/2018		<0.005					
2/26	5/2019	<0.005				<0.005		
2/27	7/2019		<0.005	<0.005	<0.005		<0.005	<0.005
3/28	3/2019		<0.005	0.0021 (J)				
3/29	9/2019	<0.005			<0.005			
4/1/2	2019					<0.005	<0.005	<0.005
9/24	1/2019		0.00072 (J)	0.0028 (J)	<0.005			
9/25	5/2019	<0.005		. ,		<0.005	0.0014 (J)	0.0019 (J)
)/2020		0.00042 (J)	<0.005			.,	()
	/2020				<0.005			<0.005
2/12	2/2020	<0.005				<0.005	<0.005	
	3/2020	<0.005		0.00044 (J)				
	9/2020		0.00084 (J)	(-,	0.00048 (J)	<0.005	<0.005	<0.005
	3/2020		0.00062 (J)	0.00058 (J)	<0.005		<0.005	<0.005
	1/2020		(-,	(-,		<0.005		
	5/2020	<0.005				0.000		
)/2021	<0.005			<0.005		<0.005	<0.005
	/2021	10.000			-0.000	<0.005	-0.000	-0.000
	2/2021		<0.005	<0.005		5.000		
	2021		-0.000	-0.000		<0.005		
	2021	<0.005				0.000		
	2021	-0.000	<0.005	<0.005	<0.005		<0.005	<0.005
		<0.005			-0.003	<0.005	<0.005	-U.UU
6/19	9/2021	~U.UU3	<0.005	<0.005		~U.UU3	~U.UU3	

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.005			<0.005
2/9/2022		<0.005	<0.005	<0.005		<0.005	<0.005
2/10/2022	<0.005						
2/11/2022					<0.005		

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	<0.005	<0.005	<0.005			
6/9/2016					<0.005	<0.005	<0.005
8/1/2016	0.0008 (J)	0.0026 (J)	<0.005	<0.005			
8/2/2016					0.0005 (J)	0.0005 (J)	0.0005 (J)
9/20/2016	<0.005	0.001 (J)	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	0.0013 (J)	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	0.002 (J)	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	0.0019 (J)				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		0.0037 (J)					
5/5/2017					<0.005	<0.005	
5/8/2017	0.0006 (J)		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		<0.005
7/7/2017						<0.005	
7/10/2017	<0.005 (*)	<0.005 (*)					
3/29/2018			<0.005	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	<0.005	
2/27/2019	0.0049 (J)	0.0055 (J)	<0.005	0.015	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	0.003 (J)				<0.005	
9/25/2019	0.00048 (J)	0.0012 (J)					<0.005
9/26/2019			<0.005	<0.005	0.00044 (J)	<0.005	
2/13/2020	0.00044 (J)	0.0012 (J)	<0.005	<0.005	0.00047 (J)	<0.005	<0.005
3/19/2020		0.0018 (J)			<0.005	0.00049 (J)	
3/20/2020	0.0009 (J)		<0.005	0.0005 (J)			<0.005
9/24/2020	0.00067 (J)	0.00068 (J)	<0.005	0.00057 (J)	<0.005	0.0006 (J)	<0.005
2/10/2021	0.00065 (J)	0.00091 (J)	<0.005	0.0027 (J)			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		0.001 (J)					
3/3/2021	<0.005		<0.005	0.00058 (J)	<0.005	<0.005	<0.005
8/19/2021		0.0012 (J)					
8/20/2021	<0.005		0.012	0.0041 (J)	<0.005	<0.005	<0.005
2/8/2022				<0.005	<0.005	<0.005	<0.005
2/10/2022	<0.005	<0.005	<0.005				

		YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016	6			0.0012 (J)	<0.005			
6/7/2016	6		<0.005			<0.005	<0.005	
7/27/201	16		0.0008 (J)	0.0007 (J)	0.0006 (J)	0.0005 (J)		
7/28/201	16						<0.005	
8/30/201	16	<0.005						
9/16/201	16		<0.005		<0.005			
9/19/201	16			<0.005		<0.005	<0.005	
11/2/201	16					<0.005		
11/3/201	16		<0.005	<0.005	<0.005		<0.005	
11/14/20)16	0.0093 (J)						
1/11/201	17		<0.005	<0.005	<0.005			
1/13/201	17					<0.005	<0.005	
2/24/201	17	<0.005						
3/1/2017	7			0.0012 (J)	<0.005			
3/2/2017	7		0.001 (J)					
3/6/2017	7					<0.005	<0.005	
4/26/201	17			0.0005 (J)	0.0003 (J)	0.0007 (J)	<0.005	
5/2/2017	7		0.0007 (J)					
5/8/2017	7	<0.005						
6/28/201	17			0.0006 (J)	<0.005			
6/29/201	17		0.0006 (J)			0.0005 (J)	<0.005	
7/11/201	17	<0.005						
10/10/20)17	<0.005						
10/11/20)17							<0.005
11/20/20)17							<0.005
1/11/201	18							<0.005
2/20/201	18							<0.005
3/28/201	18		<0.005	<0.005	<0.005			
3/29/201	18					<0.005	<0.005	
4/2/2018	3	<0.005						
4/3/2018	3							<0.005
6/28/201	18							<0.005
8/7/2018	3							<0.005
9/19/201	18	<0.005						
9/24/201	18							<0.005
3/5/2019)		<0.005		<0.005	<0.005	<0.005	
3/6/2019)			<0.005				
8/20/201	19	<0.005						
8/21/201	19							<0.005
10/9/201	19							<0.005
2/11/202	20		0.00087 (J)	0.001 (J)	0.00088 (J)			
2/12/202	20					0.00045 (J)	<0.005	<0.005
3/24/202	20		0.00087 (J)	0.00095 (J)	0.0011 (J)	0.00077 (J)	<0.005	
3/25/202	20							<0.005
8/27/202	20	<0.005						
9/22/202	20	<0.005						
9/23/202	20		0.00098 (J)	0.00092 (J)	0.0012 (J)			
9/24/202	20					0.00076 (J)	<0.005	<0.005
2/9/2021	I			0.00083 (J)	0.0013 (J)	0.00056 (J)	<0.005	
2/10/202	21							<0.005
3/1/2021	ı	<0.005						
3/3/2021	I		0.00082 (J)	0.00087 (J)	0.001 (J)	<0.005		

		YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/-	4/2021						<0.005	<0.005
8/	19/2021	<0.005						
8/	26/2021				<0.005			<0.005
8/	27/2021		<0.005	<0.005		<0.005		
9/	1/2021						<0.005	
2/	8/2022	<0.005						<0.005
2/	9/2022		<0.005	<0.005	0.0014 (J)	<0.005	<0.005	

					· · · · · · · · · · · · · · · · · · ·
	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
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
6/2/2016		<0.005	<0.005	<0.005	
7/26/2016		<0.005	<0.005	<0.005	
8/31/2016					<0.005
9/14/2016		<0.005	<0.005	<0.005	
11/2/2016		<0.005	<0.005		
11/4/2016				<0.005	
11/28/2016					<0.005
1/12/2017			<0.005	<0.005	
1/13/2017		<0.005			
2/22/2017					<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			
7/17/2017					<0.005
10/12/2017	<0.005				
10/16/2017					<0.005
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				<0.005
3/29/2018		<0.005	<0.005	<0.005	
4/3/2018	<0.005				
6/28/2018	<0.005				
8/6/2018					<0.005
8/7/2018	<0.005				
9/24/2018	<0.005				
2/25/2019					<0.005
3/4/2019		<0.005	<0.005	<0.005	
6/12/2019					<0.005
8/19/2019					<0.005

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/21/2019	0.00053 (J)				
10/8/2019					<0.005
10/9/2019	0.0012 (J)				
2/12/2020	0.00065 (J)	<0.005	<0.005	0.00043 (J)	
3/17/2020					<0.005
3/24/2020	0.00055 (J)		<0.005	0.0014 (J)	
3/25/2020		0.00058 (J)			
8/26/2020					<0.005
9/22/2020		<0.005	0.0011 (J)	<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				
3/2/2021			<0.005	<0.005	<0.005
3/3/2021		0.0013 (J)			
3/4/2021	<0.005				
8/20/2021					<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	
2/11/2022		<0.005			
3/3/2021 3/4/2021 8/20/2021 8/26/2021 9/3/2021 2/8/2022 2/10/2022	<0.005	<0.005	<0.005	<0.005	<0.0

0/1/0010	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016	<0.00E	<0.005	0.00082 (J)		0.035	<0.00E	<0.005
6/2/2016	<0.005		0.0000 (1)		0.035	<0.005	+0.00F
7/25/2016	-0.005	10.005	0.0008 (J)		0.0312	10.005	<0.005
7/26/2016	<0.005	<0.005	0.0000 (1)			<0.005	
9/13/2016		<0.005	0.0009 (J)	<0.00E			~0.00 F
9/14/2016	-0.005			<0.005		10.005	<0.005
9/15/2016	<0.005				0.0075	<0.005	
9/19/2016		10.005			0.0275	10.005	+0.00F
11/1/2016	<0.00E	<0.005			0.0255	<0.005	<0.005
11/2/2016	<0.005		0.0025 (J)	<0.00E			
11/4/2016			0.0025 (3)	<0.005 <0.005			
12/15/2016 1/10/2017	<0.005			<0.005			
1/11/2017	<0.003	<0.005				<0.005	<0.005
		<0.005	0.0027 (1)	<0.00E	0.0245	<0.005	<0.005
1/16/2017			0.0027 (J)	<0.005	0.0245 0.0272		
2/21/2017 3/1/2017					0.0272		<0.005
		<0.005	0.0022 (1)			<0.005	<0.005
3/2/2017		<0.005	0.0022 (J)	<0.00E		<0.005	
3/3/2017 3/8/2017	<0.005			<0.005			
4/26/2017	<0.005				0.0244	<0.005	<0.005
4/27/2017	~ 0.003	<0.005	0.0018 (J)		0.0244	~ 0.003	10.003
4/27/2017		<0.005	0.0018 (3)	<0.005			
5/26/2017				<0.005			
6/27/2017		<0.005	0.0023 (J)	<0.005			
		<0.005	0.0023 (3)	<0.005		<0.00E	<0.005
6/28/2017 6/30/2017	<0.005			<0.005	0.0233	<0.005	<0.005
3/27/2018	<0.005		<0.005		0.0233		
3/28/2018	~ 0.003		~ 0.003	<0.005	0.023	<0.005	<0.005
3/29/2018		<0.005		~ 0.003		~ 0.003	10.003
6/5/2018		<0.005					
6/6/2018		-0.000	<0.005				
6/7/2018			10.000	<0.005		<0.005	
6/8/2018	<0.005			10.003		10.003	<0.005
6/11/2018	10.000				0.023		40.003
10/1/2018	<0.005	<0.005	0.00059 (J)	<0.005	0.020	<0.005	<0.005
10/1/2018	10.000	10.003	0.00033 (0)	10.003	0.022	10.003	40.003
2/26/2019	<0.005				0.022		
2/27/2019	-0.000	<0.005	0.00064 (J)	<0.005	0.021	<0.005	<0.005
3/28/2019		<0.005	0.00091 (J)	-0.000		-0.000	-0.000
3/29/2019	<0.005	-0.000	0.00001 (0)	<0.005			
4/1/2019	10.000			10.003	0.022	<0.005	<0.005
9/24/2019		<0.005	0.0013 (J)	<0.005	0.022	-0.000	-0.000
9/25/2019	<0.005	10.003	0.0013 (3)	10.003	0.016	<0.005	<0.005
2/10/2020	10.000	<0.005	0.0016 (J)		0.010	10.003	40.003
2/11/2020		3.000	00.0(0)	<0.005			<0.005
2/11/2020	<0.005			0.000	0.014	<0.005	
3/18/2020	<0.005		0.00087 (J)		5.017	-0.000	
3/19/2020	3.000	<0.005	3.00007 (0)	<0.005	0.014	<0.005	<0.005
9/23/2020		<0.005	0.0013 (J)	<0.005	2.0	<0.005	<0.005
9/24/2020		5.550	3.00.0 (0)	0.000	0.0064	3.330	
9/25/2020	<0.005				5.0004		
	3.000						

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.005			<0.005		<0.005	<0.005
2/11/2021					0.0078		
2/12/2021		0.00086 (J)	0.0028 (J)				
3/1/2021					0.0061		
3/2/2021	<0.005						
3/3/2021		<0.005	0.003 (J)	<0.005		<0.005	<0.005
8/19/2021	<0.005	0.00055 (J)	0.0017 (J)		0.0052	<0.005	
8/27/2021				<0.005			<0.005
2/9/2022		0.00072 (J)	0.0023 (J)	<0.005		<0.005	<0.005
2/10/2022	<0.005						
2/11/2022					0.0038 (J)		

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	0.0032	0.0016 (J)	0.0024 (J)			
6/9/2016					0.00042 (J)	0.00085 (J)	0.00052 (J)
8/1/2016	<0.005	0.003 (J)	0.0014 (J)	0.0026 (J)			
8/2/2016					<0.005	0.0008 (J)	0.0006 (J)
9/20/2016	<0.005	0.003 (J)	0.002 (J)	0.0026 (J)			
9/21/2016					<0.005	0.0008 (J)	0.0007 (J)
11/7/2016	<0.005	0.0025 (J)	0.0016 (J)	0.0025 (J)		0.001 (J)	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	0.0022 (J)	0.0017 (J)		<0.005	0.001 (J)	
1/19/2017				0.0024 (J)			<0.005
2/21/2017	<0.005	0.0022 (J)				0.0011 (J)	
2/22/2017				0.0023 (J)	<0.005		<0.005
2/23/2017			0.002 (J)				
5/3/2017		0.002 (J)					
5/5/2017					<0.005	0.0012 (J)	
5/8/2017	<0.005		0.0029 (J)	0.0023 (J)			<0.005
6/30/2017			0.0044 (J)	0.0022 (J)			
7/5/2017					<0.005		0.0003 (J)
7/7/2017						0.0012 (J)	
7/10/2017	<0.005	0.002 (J)					
3/29/2018			0.0495 (D)	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	<0.005	
6/11/2018							<0.005
6/12/2018				0.0025 (J)	<0.005	0.0011 (J)	
6/13/2018	<0.005	0.0017 (J)	0.092				
10/2/2018	<0.005	0.002 (J)	0.078	0.0023 (J)			<0.005
10/3/2018					<0.005	0.0013 (J)	
2/27/2019	<0.005	0.0017 (J)	0.035	0.0024 (J)	<0.005	0.00093 (J)	<0.005
4/1/2019			0.025	0.0023 (J)	<0.005		<0.005
4/2/2019	<0.005	0.0022 (J)				0.0011 (J)	
9/25/2019	<0.005	0.0033 (J)					<0.005
9/26/2019			0.014	0.0021 (J)	<0.005	0.00098 (J)	
2/13/2020	<0.005	0.0019 (J)	0.012	0.0026 (J)	<0.005	0.00092 (J)	<0.005
3/19/2020		0.0021 (J)			<0.005	0.00093 (J)	
3/20/2020	<0.005		0.014	0.0022 (J)			<0.005
9/24/2020	<0.005	0.0011 (J)	0.0076	0.0021 (J)	<0.005	0.00085 (J)	<0.005
2/10/2021	<0.005	0.0017 (J)	0.0048 (J)	0.0025 (J)			
2/11/2021					<0.005		
2/12/2021						<0.005	0.00094 (J)
3/2/2021		0.0021 (J)					
3/3/2021	<0.005		0.0042 (J)	0.0017 (J)	<0.005	0.001 (J)	<0.005
8/19/2021		0.0017 (J)					
8/20/2021	<0.005		0.0034 (J)	0.0027 (J)	<0.005	0.00097 (J)	<0.005
2/8/2022				0.0017 (J)	<0.005	0.00091 (J)	<0.005
2/10/2022	<0.005	0.0026 (J)	0.0051				

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.005	0.00061 (J)			
6/7/2016		<0.005			<0.005	0.0056	
7/27/2016		<0.005	<0.005	0.0004 (J)	<0.005		
7/28/2016						0.0032 (J)	
8/30/2016	0.0073 (J)						
9/16/2016		<0.005		0.0008 (J)			
9/19/2016			<0.005		<0.005	0.0047 (J)	
11/2/2016					<0.005		
11/3/2016		<0.005	<0.005	<0.005		0.013	
11/14/2016	0.0115						
1/11/2017		<0.005	<0.005	<0.005			
1/13/2017					<0.005	0.011	
2/24/2017	0.0106						
3/1/2017			<0.005	<0.005			
3/2/2017		<0.005					
3/6/2017					<0.005	0.011	
4/26/2017			<0.005	<0.005	<0.005	0.009 (J)	
5/2/2017		<0.005					
5/8/2017	0.0099 (J)						
6/28/2017	. ,		<0.005	<0.005			
6/29/2017		<0.005			<0.005	0.0093 (J)	
7/11/2017	0.0096 (J)						
10/10/2017	0.0036 (J)						
10/11/2017	. ,						<0.005
11/20/2017							<0.005
1/11/2018							<0.005
2/20/2018							<0.005
3/28/2018		<0.005	<0.005	<0.005			
3/29/2018					<0.005	<0.005	
4/2/2018	<0.005						
4/3/2018							<0.005
6/5/2018						0.0041 (J)	
6/6/2018					<0.005	. ,	
6/7/2018			<0.005				
6/11/2018		<0.005		<0.005			
6/28/2018							<0.005
8/7/2018							<0.005
	0.0036 (J)						
9/24/2018	. ,						<0.005
9/25/2018		<0.005	<0.005	<0.005	<0.005	0.0044 (J)	
3/5/2019		<0.005		<0.005	<0.005	0.0039 (J)	
3/6/2019			<0.005			(-,	
4/2/2019		<0.005				0.0039 (J)	
4/3/2019			<0.005	<0.005	<0.005	(-)	
8/20/2019	0.00092 (J)						
8/21/2019	(-,						0.00034 (J)
9/24/2019						0.0032 (J)	
9/25/2019		<0.005			<0.005	(3)	
9/26/2019		21 	<0.005	<0.005	9- 		
10/8/2019	0.0014 (J)			-			
10/9/2019							<0.005
2/11/2020		<0.005	<0.005	<0.005			
		2.000	000	3.000			

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					<0.005	0.0081	0.00034 (J)
3/17/2020	0.0017 (J)						
3/24/2020		<0.005	<0.005	<0.005	<0.005	0.0061	
3/25/2020							0.00034 (J)
8/27/2020	0.0011 (J)						
9/22/2020	0.00097 (J)						
9/23/2020		<0.005	<0.005	<0.005			
9/24/2020					<0.005	0.0079	0.00053 (J)
2/9/2021			<0.005	<0.005	<0.005	0.009	
2/10/2021							0.00098 (J)
3/1/2021	0.001 (J)						
3/3/2021		<0.005	<0.005	<0.005	<0.005		
3/4/2021						0.0065	0.00071 (J)
8/19/2021	0.00099 (J)						
8/26/2021				<0.005			0.0011 (J)
8/27/2021		<0.005	<0.005		<0.005		
9/1/2021						0.0068	
2/8/2022	0.0013 (J)						0.0012 (J)
2/9/2022		<0.005	<0.005	<0.005	<0.005	0.0078	

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
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
6/2/2016		0.00082 (J)	<0.005	<0.005	
7/26/2016		0.0012 (J)	<0.005	<0.005	
8/31/2016					0.0053 (J)
9/14/2016		0.0006 (J)	<0.005	<0.005	
11/2/2016		<0.005	<0.005		
11/4/2016				<0.005	
11/28/2016					0.0036 (J)
1/12/2017			<0.005	<0.005	
1/13/2017		0.0029 (J)			
2/22/2017					0.0049 (J)
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					0.0059 (J)
6/27/2017			<0.005	<0.005	
6/29/2017		0.0005 (J)			
7/17/2017					0.0046 (J)
10/12/2017	<0.005				
10/16/2017					0.0034 (J)
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				<0.005
3/29/2018		<0.005	<0.005	<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				
8/6/2018					0.003 (J)
8/7/2018	<0.005				
9/24/2018	<0.005				
9/26/2018		<0.005	<0.005	<0.005	
2/25/2019					0.001 (J)

3/4/2019 4/3/2019	YGWA-40 (bg)	YGWA-4I (bg) <0.005 0.00083 (J)	YGWA-5D (bg) <0.005 <0.005	YGWA-5I (bg) <0.005 <0.005	GWA-2 (bg)
6/12/2019		0.0000 (0)	0.000	0.000	0.003 (J)
8/19/2019					0.0035 (J)
8/21/2019	<0.005				0.0000 (0)
9/24/2019	-0.000		<0.005	<0.005	
9/25/2019		<0.005	-0.000	-0.000	
10/8/2019		-0.000			0.0039 (J)
10/9/2019	<0.005				0.0000 (0)
2/12/2020	<0.005	<0.005	0.00037 (J)	<0.005	
3/17/2020	-0.000	-0.000	0.00007 (0)	-0.000	0.003 (J)
3/24/2020	<0.005		0.00035 (J)	<0.005	0.000 (0)
3/25/2020	-0.000	0.00056 (J)	0.00000 (0)	-0.000	
8/26/2020		0.0000 (0)			0.2 (O)
9/22/2020		<0.005	<0.005	<0.005	0.16 (O)
9/24/2020	<0.005	0.000	0.000	0.000	0.10 (0)
2/8/2021	0.000		<0.005	<0.005	
2/9/2021		<0.005			
2/10/2021	<0.005				
3/2/2021			<0.005	<0.005	0.21 (O)
3/3/2021		<0.005			(-)
3/4/2021	<0.005				
8/20/2021					0.074 (O)
8/26/2021		0.00042 (J)	<0.005	<0.005	(-)
9/3/2021	<0.005	()			
2/8/2022	<0.005				0.072 (O)
2/10/2022			<0.005	<0.005	. /
2/11/2022		<0.005			

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

6/1/201	16	YGWA-14S (bg)	YGWA-1D (bg) 0.321 (U)	YGWA-1I (bg) 0.42	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg) 0.896
6/2/201		0.329 (U)	0.021 (0)	0.42		0.0652 (U)	2.51	0.000
7/25/20		0.020 (0)		1.83		3.01	2.0.	2.28
7/26/20		1.51	0.707 (U)			0.01	3.82	2.25
9/13/20		1.01	1.22	0.841			0.02	
9/14/20			1.22	0.041	0.98 (U)			0.821 (U)
9/15/20		1.04 (U)			0.30 (0)		4.24	0.021 (0)
9/19/20		1.04 (0)				0.971 / 11)	4.24	
			0.905 (11)			0.871 (U)	2.02	0.595 (1)
11/1/20 11/2/20		0.406 (11)	0.805 (U)			0.307 (U)	3.92	0.585 (U)
11/4/20		0.496 (U)		0.166 (U)	0.277 (11)			
				0.100 (0)	0.277 (U)			
12/15/2		0.276 (11)			0.071 (U)			
1/10/20		0.376 (U)	0.705 (11)				2.52	1.22
1/11/20			0.705 (U)	0	0.44710	0.004 (11)	2.52	1.22
1/16/20				0	0.44 (U)	0.284 (U)		
2/21/20						0.503 (U)		0.077 (1)
3/1/201			0.054.410	0.504.410			0.10	0.877 (U)
3/2/201			0.251 (U)	0.504 (U)			3.13	
3/3/201					0.448 (U)			
3/8/201		0.0745 (U)						«»
4/26/20		0.282 (U)				0.204 (U)	2.35	0.672 (U)
4/27/20			1.08	0.593 (U)				
4/28/20					0.548 (U)			
5/26/20					0 (U)			
6/27/20			1.02 (U)	0.657 (U)				
6/28/20					0.608 (U)		2.6	1.07 (U)
6/30/20		0.994				0.738 (U)		
3/27/20		0.189 (U)		0.39 (U)		0.31 (U)		
3/28/20					0.412 (U)		3	0.65 (U)
3/29/20			0.503 (U)					
6/5/201			0.771 (U)					
6/6/201				2.8				
6/7/201					0.73 (U)		2.79	
6/8/201		0.218 (U)						1.89
6/11/20						0.608 (U)		
10/1/20		1.24	0.783 (U)	1.06 (U)	0.756 (U)		3.14	1.58
10/2/20						0.97 (U)		
2/26/20		0.202 (U)				0.524 (U)		
2/27/20			1.21 (U)	0.637 (U)	0.635 (U)		3.79	3.67
3/28/20			1.13 (U)	0.125 (U)				
3/29/20		0 (U)			0.224 (U)			
4/1/201						1.02 (U)	4.33	2.28
9/24/20			1.22 (U)	0.949 (U)	0.429 (U)			
9/25/20		0.707 (U)				1.02 (U)	4.2	1.6
2/10/20			1.41	1.25 (U)				4.00
2/11/20					0.817 (U)		3.87	1.85
2/12/20		1.07 (U)				0.301 (U)		
3/18/20		0.207 (U)		0.458 (U)				
3/19/20			1.1		0.715 (U)	1	3.96	2.2
9/23/20			1.35 (U)	0.00884 (U)	0.565 (U)		4.14	1.14 (U)
9/24/20						0.684 (U)		
9/25/20	120	0.603 (U)						

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

YGWA-3I (bg) YGWA-14S (bg) YGWA-1D (bg) YGWA-1I (bg) YGWA-2I (bg) YGWA-3D (bg) YGWA-30I (bg) 2/10/2021 0.353 (U) 1.04 (U) 3.65 2.46 2/11/2021 0.678 (U) 0.366 (U) 2/12/2021 0.458 (U) 3/1/2021 0.412 (U) 3/2/2021 0.71 (U) 3/3/2021 0.492 (U) 0.105 (U) 0.459 (U) 3.58 2.03 0.0732 (U) 8/19/2021 0.786 (U) 1.17 (U) 0.234 (U) 3.53 8/27/2021 0.409 (U) 1.34 2/9/2022 1.19 0.422 (U) 0.894 (U) 3.28 1.91 2/10/2022 0 (U) 0.268 (U)

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2022 1:23 PM

Data: Yates Ash Pond 2

Plant Yates Client: Southern Company YGWC-26I YGWC-26S YGWC-27I YGWC-27S YGWC-28I YGWC-28S YGWC-29I 6/8/2016 6.68 (o) 0.677 1.81 0.257 (U) 6/9/2016 0.715 0.194 (U) 0.523 8/1/2016 0.606 (U) 0.457 (U) 3.79 0.453 (U) 8/2/2016 0.331 (U) 0.526 (U) 1.25 9/20/2016 0.565 (U) 0.555 (U) 3.12 1.27 9/21/2016 0.335 (U) 0.176 (U) 1.21 (U) 11/7/2016 0.773 (U) 0.647 (U) 2.66 0.877 (U) 0.609 (U) 1.16 11/8/2016 0.245 (U) 1/18/2017 0.263 (U) 0.6 (U) 3.44 0.261 (U) 0.0752 (U) 1/19/2017 0.933 (U) 0.764 (U) 2/21/2017 1.06 (U) 1.11 (U) 0.404 (U) 2/22/2017 1.26 (U) 0.516 (U) 1.45 (U) 2/23/2017 4.73 5/3/2017 0.654 (U) 5/5/2017 0.713 (U) 0.868 (U) 0.291 (U) 5/8/2017 3.87 0.789 (U) 0.21 (U) 6/30/2017 2.85 0.592 (U) 0.62 (U) 7/5/2017 0.292 (U) 7/7/2017 1.29 7/10/2017 0.912 0.649 (U) 3/29/2018 0.916 (U) 1.41 1.37 3/30/2018 0.23 (U) 0.501 (U) 0.948 (U) 0.195 (U) 6/11/2018 1.27 (U) 6/12/2018 0.666 (U) 0.869 (U) 1.02 (U) 6/13/2018 0.427 (U) 1.09 (U) 3.69 10/2/2018 1.41 (U) 0.747 (U) 4.5 0.774 (U) 0.442 (U) 10/3/2018 0.864 (U) 0.713 (U) 2/27/2019 0.614 (U) 1.27 4.69 1.19 0.947 (U) 0.543 (U) 0.902 (U) 0.584 (U) 4/1/2019 5 0.777 (U) 0.162 (U) 4/2/2019 0.84 (U) 0.708 (U) 0.521 (U) 9/25/2019 1.01 (U) 1.18 (U) 1.03 (U) 9/26/2019 3.37 1.01 (U) 1.06 (U) 1.16 2/13/2020 1.86 0.178 (U) 4.48 0.961 (U) 1.12 (U) 1.04 0.806 (U) 3/19/2020 0.796 (U) 0.913 (U) 1.01 (U) 3/20/2020 2.03 4.13 1.5 1.42 9/24/2020 <1.88 <1.88 3.42 1.49 <1.88 <1.88 <1.88 2/10/2021 0.513 (U) 0.41 (U) 0.663 (U) 2.47 2/11/2021 1.07 2/12/2021 0.419 (U) 0.826 3/2/2021 0.394 (U) 3/3/2021 0.419 (U) 1.39 0.327 (U) 0.261 (U) 1.04 0.955 0.531 (U) 8/19/2021 0.542 (U) 0.314 (U) 8/20/2021 0.596 (U) 1.36 0.656 (U) 1.34 2/8/2022 0.781 (U) 1.07 (U) 0.964 0.104 (U)

2/10/2022

0.149 (U)

0.431 (U)

1.23

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			0.0804 (U)	0.301 (U)			
6/7/2016		0.158 (U)			0.0191 (U)	0.347	
7/27/2016		0.0354 (U)	0.206 (U)	0.196 (U)	0.541 (U)		
7/28/2016						0.815 (U)	
8/30/2016	1.09						
9/16/2016		1.04		0.915 (U)			
9/19/2016			1.58		0.826 (U)	0.862 (U)	
11/2/2016					0.791 (U)		
11/3/2016		0.314 (U)	0.342 (U)	0.928 (U)		0.797 (U)	
12/15/2016	1 (U)						
1/11/2017		0.34 (U)	0.365 (U)	0.502 (U)			
1/13/2017					0.296 (U)	0.72 (U)	
2/24/2017	0.504 (U)						
3/1/2017			0.395 (U)	0.202 (U)			
3/2/2017		0.746 (U)					
3/6/2017					0.518 (U)	0.518 (U)	
4/26/2017			0.507 (U)	0.264 (U)	0.282 (U)	1.13 (U)	
5/2/2017		0.111 (U)				•	
5/8/2017	0.455 (U)	. ,					
6/28/2017	. /		0.892	0.636 (U)			
6/29/2017		0.576 (U)			1.12	0.841 (U)	
7/11/2017	0.471 (U)	,				. ,	
10/10/2017	0.649 (U)						
10/11/2017	(-)						0.586 (U)
11/20/2017							0.816 (U)
1/11/2018							0.841 (U)
2/20/2018							1.58
3/28/2018		0.438 (U)	0.92 (U)	0.56 (U)			
3/29/2018		(1)	(-)		1.73	1.91	
4/2/2018	0.512 (U)						
4/3/2018	(-)						0.385 (U)
6/5/2018						1.39	. ,
6/6/2018					0.694 (U)		
6/7/2018			0.668 (U)		(-)		
6/11/2018		0.901 (U)	,	0.649 (U)			
6/28/2018		` '		` '			0.283 (U)
8/7/2018							0.332 (U)
9/19/2018	0.789 (U)						• •
9/24/2018	` '						0.767 (U)
9/25/2018		0.68 (U)	0.141 (U)	0.574 (U)	0.772 (U)	1.62	• •
3/5/2019		0.272 (U)	` '	0.474 (U)	0.84 (U)	0.985 (U)	
3/6/2019		` '	0.714 (U)	` '	` '	` '	
4/2/2019		0.847 (U)	. /			1.42	
4/3/2019		` '	0.385 (U)	0.429 (U)	1.01		
8/20/2019	2.44			- \-/	-		
8/21/2019							1.01 (U)
9/24/2019						1.35	. ,
9/25/2019		0.412 (U)			1.18 (U)		
9/26/2019		(-)	0.386 (U)	0.222 (U)	- \-/		
10/8/2019	1.72			\ - <i>I</i>			1.02 (U)
2/11/2020		0.461 (U)	1.48	0.597 (U)			. /
2/12/2020		- \-/	-	\-/	1.11 (U)	1.61	0.45 (U)
					V = 7	-	` '

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/17/2020	1.22 (U)						
3/24/2020		0.534 (U)	0.632 (U)	0.262 (U)	1.88	1.24 (U)	
3/25/2020							0.377 (U)
8/27/2020	1.26 (U)						
9/22/2020	1.06 (U)						
9/23/2020		0.466 (U)	0.887 (U)	0.43 (U)			
9/24/2020					0.611 (U)	1.8	0.568 (U)
2/9/2021		0.529 (U)	0.314 (U)	0.259 (U)	0.284 (U)	1.24	
2/10/2021							0.518 (U)
3/1/2021	1.2						
3/3/2021		0.59 (U)	0.565 (U)	0.352 (U)	0.133 (U)	1.2	
3/4/2021							0.636 (U)
8/19/2021	1.07 (U)						
8/26/2021				0.686 (U)			0.674 (U)
8/27/2021		0.9 (U)	0.761 (U)		0.779 (U)		
9/1/2021						1.86	
2/8/2022	0.4 (U)						0.834
2/9/2022		0.133 (U)	0.571 (U)	0.0618 (U)	0.504 (U)	1.94	

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		0.721	5.11	0.614	
7/26/2016		1.26	6.92	1.47	
8/31/2016					1.2
9/14/2016		0.901 (U)	3.96	1.27	
11/2/2016		1.09 (U)	4.53		
11/4/2016				0.434 (U)	
11/28/2016					0.264 (U)
1/12/2017			4.43	0.202 (U)	
1/13/2017		1.19			
2/22/2017					1.06 (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					0.187 (U)
6/27/2017			2.8	0.77 (U)	
6/29/2017		1.35			
7/17/2017					1.42
10/12/2017	1.49				
10/16/2017					1.17
11/20/2017	0.918 (U)				
1/10/2018	1.05				
2/19/2018	2.05				1.58 (D)
3/29/2018		0.703 (U)	3.42	0.648 (U)	
4/3/2018	0.68 (U)				
6/6/2018			3.99		
6/7/2018		0.628 (U)		0.745 (U)	
6/28/2018	1.28				
8/6/2018					0.196 (U)
8/7/2018	1.16				
9/24/2018	0.965 (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)	
8/19/2019					1.39
8/21/2019	1.24 (U)				
9/24/2019			4.06	0.699 (U)	
9/25/2019		1.86			
10/8/2019	0.866 (U)				1.32 (U)
2/12/2020	1.83	1.25	4.02	0.913 (U)	
3/17/2020					1 (U)
3/24/2020	1.27 (U)		3.52		
3/25/2020		0.766 (U)			
8/26/2020					1.75
9/22/2020		0.795 (U)	2.98	0.428 (U)	0.688 (U)
9/24/2020	0.634 (U)				
2/8/2021			2.89	0.613 (U)	
2/9/2021		0.626 (U)			
2/10/2021	0.783 (U)				
3/2/2021			1.67	0.579 (U)	0.948 (U)
3/3/2021		1			
3/4/2021	0.818 (U)				

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

YGWA-40 (bg) YGWA-4I (bg) YGWA-5D (bg) YGWA-5I (bg) GWA-2 (bg) 8/20/2021 0.528 (U) 8/26/2021 1.17 (U) 0.798 (U) 4.68 9/3/2021 0.971 (U) 2/8/2022 0.534 (U) 0.462 (U) 2/10/2022 3.33 0.375 (U) 2/11/2022 0.996

		YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2	2016		0.12 (J)	<0.1				0.15 (J)
6/2/2	2016	<0.1				<0.1	0.62	
7/25/	/2016			0.06 (J)		0.06 (J)		0.14 (J)
7/26/	/2016	0.02 (J)	0.08 (J)				0.49	
9/13/	/2016		0.11 (J)	<0.1				
9/14/	/2016				0.08 (J)			0.18 (J)
9/15/	/2016	<0.1					0.54	
9/19/	/2016					<0.1		
	/2016		<0.1			<0.1	0.68	<0.1
11/2/	/2016	<0.1						
11/4/	/2016			<0.1	<0.1			
12/15	5/2016				0.06 (J)			
	/2017	<0.1			. ,			
	/2017		0.05 (J)				0.49	0.09 (J)
	/2017		(1)	<0.1	0.1 (J)	<0.1		(-)
2/21/					(-)	<0.1		
3/1/2								<0.1
3/2/2			<0.1	<0.1			0.48	· · · ·
3/3/2			40.1	40. 1	<0.1		0.40	
3/8/2		<0.1			<0.1			
						-0.1	0.49	0.09 (1)
	/2017	<0.1	0.04 (1)	0.01 (1)		<0.1	0.48	0.08 (J)
4/27/			0.04 (J)	0.01 (J)	0.00 (1)			
	/2017				0.06 (J)			
	/2017				0.09 (J)			
	/2017		<0.1	<0.1				
	/2017				0.11 (J)		0.47	0.12 (J)
	/2017	<0.1				<0.1		
	/2017		<0.1	<0.1	<0.1			
	/2017					<0.1	<0.1	<0.1
	/2017	<0.1						
	/2018	<0.1		<0.1		<0.1		
	/2018				0.31		0.56	<0.1
3/29/	/2018		<0.1					
6/5/2	2018		0.055 (J)					
6/6/2	2018			<0.1				
6/7/2	2018				0.11 (J)		0.48	
6/8/2	2018	<0.1						0.2 (J)
6/11/	/2018					<0.1		
10/1/	/2018	<0.1	<0.1	<0.1	<0.1		0.44	<0.1
10/2/	/2018					<0.1		
2/26/	/2019	<0.1				<0.1		
2/27/	/2019		0.052 (J)	<0.1	0.12 (J)		0.53	0.13 (J)
3/28/	/2019		0.036 (J)	<0.1				
3/29/	/2019	<0.1			0.13 (J)			
4/1/2	2019					<0.1	0.45	0.1 (J)
9/24/	/2019		0.063 (J)	<0.1	0.081 (J)			
9/25/	/2019	<0.1				<0.1	0.46	0.1 (J)
2/10/	/2020		0.061 (J)	<0.1				
2/11/	/2020				0.075 (J)			0.094 (J)
	/2020	<0.1				<0.1	0.4	
	/2020	<0.1		<0.1				
	/2020		0.064 (J)		0.093 (J)	<0.1	0.51	0.11 (J)
			* *		• •			

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/23/2020		0.058 (J)	<0.1	0.08 (J)		0.47	0.098 (J)
9/24/2020					<0.1		
9/25/2020	<0.1						
2/10/2021	<0.1			0.094 (J)		0.43	<0.1
2/11/2021					<0.1		
2/12/2021		0.068 (J)	<0.1				
3/1/2021					<0.1		
3/2/2021	<0.1						
3/3/2021		0.078 (J)	<0.1	0.085 (J)		0.44	0.1
8/19/2021	<0.1	0.074 (J)	<0.1		<0.1	0.47	
8/27/2021				0.12			0.12
2/9/2022		0.057 (J)	<0.1	0.094 (J)		0.43	0.097 (J)
2/10/2022	<0.1						
2/11/2022					<0.1		

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.094 (J)	<0.1	0.086 (J)	0.12 (J)			
6/9/2016					0.098 (J)	0.16 (J)	0.085 (J)
8/1/2016	0.08 (J)	0.24 (J)	0.14 (J)	0.22 (J)			
8/2/2016					0.38	0.5	0.09 (J)
9/20/2016	0.05 (J)	0.03 (J)	<0.1	0.32			
9/21/2016					0.08 (J)	0.25 (J)	0.09 (J)
11/7/2016	<0.1 (*)	0.44	<0.1 (*)	<0.1 (*)		0.27 (J)	<0.1 (*)
11/8/2016					0.24 (J)		
1/18/2017	0.11 (J)	<0.1 (*)	<0.1 (*)		0.12 (J)	0.34	
1/19/2017				0.25 (J)			<0.1 (*)
2/21/2017	<0.1 (*)	<0.1 (*)				0.27 (J)	
2/22/2017				0.21 (J)	<0.1 (*)		<0.1 (*)
2/23/2017			<0.1 (*)				
5/3/2017		0.16 (J)					
5/5/2017					0.08 (J)	0.2 (J)	
5/8/2017	0.08 (J)		0.07 (J)	0.19 (J)			0.06 (J)
6/30/2017			<0.1 (*)	0.2 (J)			
7/5/2017					0.11 (J)		0.08 (J)
7/7/2017						0.18 (J)	
7/10/2017	<0.1 (*)	<0.1 (*)					
10/5/2017					<0.1 (*)		<0.1 (*)
10/6/2017				<0.1 (*)			
10/9/2017			<0.1 (*)			<0.1 (*)	
10/10/2017	<0.1	<0.1					
3/29/2018			<0.1	0.49			<0.1
3/30/2018	<0.1	0.35			<0.1	<0.1	
6/11/2018							<0.1
6/12/2018				0.037 (J)	<0.1	0.13 (J)	
6/13/2018	0.088 (J)	0.044 (J)	<0.1				
10/2/2018	<0.1	<0.1	<0.1	<0.1			<0.1
10/3/2018					<0.1	0.31	
2/27/2019	<0.1	<0.1	<0.1	0.14 (J)	0.14 (J)	0.22 (J)	0.15 (J)
4/1/2019			0.034 (J)	0.088 (J)	0.078 (J)		0.059 (J)
4/2/2019	0.071 (J)	<0.1				0.14 (J)	
9/25/2019	0.064 (J)	<0.1					0.054 (J)
9/26/2019			0.14 (J)	0.22 (J)	0.29 (J)	0.28 (J)	
2/13/2020	<0.1	<0.1	<0.1	0.11 (J)	0.14 (J)	0.18 (J)	0.053 (J)
3/19/2020		<0.1			0.07 (J)	0.16 (J)	
3/20/2020	0.06 (J)		<0.1	0.097 (J)			0.057 (J)
9/24/2020	0.053 (J)	<0.1	0.059 (J)	0.092 (J)	0.073 (J)	0.16	0.06 (J)
2/10/2021	0.05 (J)	<0.1	0.055 (J)	0.084 (J)			
2/11/2021					0.066 (J)		
2/12/2021						0.069 (J)	0.17
3/2/2021		<0.1					
3/3/2021	0.05 (J)		0.058 (J)	<0.1	0.072 (J)	0.13	0.056 (J)
8/19/2021		<0.1					
8/20/2021	<0.1		0.091 (J)	0.11	0.11	0.2	0.069 (J)
2/8/2022				0.087 (J)	0.063 (J)	0.14	0.053 (J)
2/10/2022	<0.1	<0.1	0.059 (J)				

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.1	<0.1			
6/7/2016		<0.1			<0.1	<0.1	
7/27/2016		<0.1	<0.1	<0.1	<0.1		
7/28/2016						0.02 (J)	
8/30/2016	0.09 (J)						
9/16/2016		<0.1		<0.1			
9/19/2016			<0.1		<0.1	0.02 (J)	
11/2/2016					<0.1		
11/3/2016		<0.1	<0.1	<0.1		<0.1	
11/14/2016	0.18 (J)						
1/11/2017		<0.1	<0.1	<0.1			
1/13/2017					<0.1	<0.1	
2/24/2017	0.05 (J)						
3/1/2017			<0.1	<0.1			
3/2/2017		<0.1					
3/6/2017					<0.1	<0.1	
4/26/2017			<0.1	<0.1	<0.1	0.04 (J)	
5/2/2017		<0.1					
5/8/2017	0.03 (J)						
6/28/2017			<0.1	<0.1			
6/29/2017		<0.1			<0.1	<0.1	
7/11/2017	0.07 (J)						
10/3/2017						<0.1	
10/4/2017		<0.1		<0.1	<0.1		
10/5/2017			<0.1				
10/10/2017	<0.1						
10/11/2017							<0.1
11/20/2017							<0.1
1/11/2018							<0.1
2/20/2018							0.23
3/28/2018		<0.1	<0.1	<0.1			
3/29/2018					<0.1	<0.1	
4/2/2018	<0.1						
4/3/2018							<0.1
6/5/2018						0.13 (J)	
6/6/2018					<0.1		
6/7/2018			<0.1				
6/11/2018		<0.1		<0.1			
6/28/2018							<0.1
8/7/2018							0.048 (J)
9/19/2018	<0.1						
9/24/2018							<0.1
9/25/2018		<0.1	<0.1	<0.1	<0.1	0 (J)	
3/5/2019		<0.1		<0.1	<0.1	0.32	
3/6/2019			<0.1				
3/27/2019	0.081 (J)						<0.1
4/2/2019		<0.1				0.12 (J)	
4/3/2019			<0.1	<0.1	<0.1		
8/20/2019	<0.1						
8/21/2019							<0.1
9/24/2019						0.15 (J)	
9/25/2019		<0.1			<0.1		

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/26/2019			<0.1	<0.1			
10/8/2019	0.034 (J)						
10/9/2019							<0.1
2/11/2020		<0.1	<0.1	<0.1			
2/12/2020					<0.1	0.1 (J)	<0.1
3/17/2020	<0.1						
3/24/2020		<0.1	<0.1	<0.1	<0.1	0.081 (J)	
3/25/2020							<0.1
8/27/2020	<0.1						
9/22/2020	<0.1						
9/23/2020		<0.1	<0.1	<0.1			
9/24/2020					<0.1	0.079 (J)	<0.1
2/9/2021			<0.1	<0.1	<0.1	0.092 (J)	
2/10/2021							<0.1
3/1/2021	<0.1						
3/3/2021		<0.1	<0.1	<0.1	<0.1		
3/4/2021						0.091 (J)	<0.1
8/19/2021	<0.1						
8/26/2021				<0.1			0.063 (J)
8/27/2021		<0.1	<0.1		<0.1		
9/1/2021						0.11	
2/8/2022	<0.1						0.052 (J)
2/9/2022		<0.1	<0.1	<0.1	<0.1	0.1	

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		<0.1	0.11 (J)	<0.1	
7/26/2016		<0.1	0.05 (J)	<0.1	
8/31/2016					0.14 (J)
9/14/2016		<0.1	0.04 (J)	<0.1	
11/2/2016		<0.1	<0.1		
11/4/2016				<0.1	
11/28/2016					0.12 (J)
1/12/2017			0.04 (J)	<0.1	. ,
1/13/2017		<0.1	(-)		
2/22/2017					0.09 (J)
3/6/2017		<0.1			(5)
3/7/2017		-0.1	<0.1	<0.1	
5/1/2017		<0.1	<0.1	~ 0.1	
		<0.1	<0.1	-0.1	
5/2/2017				<0.1	0.05 (1)
5/8/2017			.0.4	.0.4	0.05 (J)
6/27/2017			<0.1	<0.1	
6/29/2017		<0.1			
7/17/2017					0.14 (J)
10/3/2017			<0.1	<0.1	
10/5/2017		<0.1			
10/12/2017	<0.1				
10/16/2017					0.12 (J)
11/20/2017	<0.1				
1/10/2018	<0.1				
2/19/2018	<0.1				0.17
3/29/2018		<0.1	<0.1	<0.1	
4/3/2018	<0.1				
6/6/2018			0.15 (J)		
6/7/2018		<0.1		<0.1	
6/28/2018	<0.1				
8/6/2018					0.087 (J)
8/7/2018	<0.1				(0)
9/24/2018	<0.1				
9/26/2018	0.1	<0.1	<0.1	<0.1	
2/25/2019		~ 0.1	~ 0.1	~ 0.1	0.14 (1)
		-0.1	0.10 (1)	-0.1	0.14 (J)
3/4/2019	-0.1	<0.1	0.19 (J)	<0.1	
3/26/2019	<0.1	-0.1	0.047 / 15	-0.1	
4/3/2019		<0.1	0.047 (J)	<0.1	0.40 ("
6/12/2019					0.12 (J)
8/19/2019					<0.1
8/21/2019	<0.1				
9/24/2019			0.05 (J)	<0.1	
9/25/2019		<0.1			
10/8/2019					0.052 (J)
10/9/2019	<0.1				
2/12/2020	<0.1	<0.1	<0.1	<0.1	
3/17/2020					0.053 (J)
3/24/2020	<0.1		<0.1	<0.1	
3/25/2020		<0.1			
8/26/2020					0.068 (J)
9/22/2020		<0.1	0.056 (J)	<0.1	0.058 (J)
9/24/2020	<0.1		(0)		(0)

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2021			0.055 (J)	<0.1	
2/9/2021		<0.1			
2/10/2021	<0.1				
3/2/2021			<0.1	<0.1	0.073 (J)
3/3/2021		<0.1			
3/4/2021	<0.1				
8/20/2021					0.06 (J)
8/26/2021		<0.1	0.061 (J)	<0.1	
9/3/2021	<0.1				
2/8/2022	<0.1				0.064 (J)
2/10/2022			0.055 (J)	<0.1	
2/11/2022		<0.1			

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.00056 (J)	<0.001				<0.001
6/2/2016	<0.001				<0.001	0.00056 (J)	
7/25/2016			<0.001		<0.001		<0.001
7/26/2016	<0.001	<0.001				0.0001 (J)	
9/13/2016		0.0001 (J)	<0.001				
9/14/2016				<0.001			<0.001
9/15/2016	<0.001					0.0002 (J)	
9/19/2016					<0.001		
11/1/2016		<0.001			<0.001	<0.001	<0.001
11/2/2016	<0.001						
11/4/2016			<0.001	<0.001			
12/15/2016				<0.001			
1/10/2017	<0.001						
1/11/2017		<0.001				<0.001	<0.001
1/16/2017			<0.001	<0.001	<0.001		
2/21/2017					<0.001		
3/1/2017							<0.001
3/2/2017		0.0001 (J)	<0.001			0.0002 (J)	
3/3/2017		. ,		<0.001		• •	
3/8/2017	0.0001 (J)						
4/26/2017	<0.001				<0.001	<0.001	<0.001
4/27/2017		<0.001	<0.001				
4/28/2017				<0.001			
5/26/2017				<0.001			
6/27/2017		<0.001	<0.001				
6/28/2017				<0.001		<0.001	<0.001
6/30/2017	<0.001				<0.001		
3/27/2018	<0.001		<0.001		<0.001		
3/28/2018				<0.001		<0.001	<0.001
3/29/2018		<0.001					
2/26/2019	<0.001				<0.001		
2/27/2019		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2020		4.9E-05 (J)	<0.001				
2/11/2020		30 (0)		<0.001			<0.001
2/11/2020	<0.001			5.001	<0.001	<0.001	5.55
3/18/2020	<0.001		<0.001				
3/19/2020	3.00 .	0.00012 (J)	3.00.	<0.001	<0.001	0.00017 (J)	<0.001
9/23/2020		<0.001	0.00021 (J)	0.001 0.0011 (J)	0.001	<0.0017	0.00015 (J)
9/24/2020		5.00.	1.0002. (0)	2.00 (0)	<0.001	5.55	(*)
9/25/2020	<0.001				0.001		
2/10/2021	4.8E-05 (J)			0.00015 (J)		<0.001	<0.001
2/11/2021	7.0L-00 (J)			0.00010(0)	4.6E-05 (J)	-0.00 i	~0.00 I
2/11/2021		4.4E-05 (J)	0.00038 (J)		UL-UJ (U)		
3/1/2021		7.4L-03 (J)	0.00030 (3)		<0.001		
3/2/2021	<0.001				50.00 I		
3/3/2021	50.00 I	5.6F-05 (I)	<0.001	<0.001		<0.001	<0.001
3/3/2021 8/19/2021	<0.001	5.6E-05 (J) <0.001	<0.001	~U.UU I	<0.001	<0.001	-0.00 I
	50.00 I	-0.00 i	-0.00 i	<0.001	-U.UU I	-0.00 i	<0.001
8/27/2021 2/9/2022		<0.001	<0.001	<0.001 <0.001		<0.001	<0.001 <0.001
2/9/2022	<0.001	-0.00 i	-0.00 i	-0.00 i		-0.00 i	~0.00 I
	~U.UU I				<0.001		
2/11/2022					<0.001		

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.001	<0.001	<0.001	<0.001 (*)			
6/9/2016					<0.001	<0.001	<0.001
8/1/2016	<0.001	<0.001	<0.001	<0.001			
8/2/2016					<0.001	<0.001	<0.001
9/20/2016	<0.001	<0.001	<0.001	0.0002 (J)			
9/21/2016					<0.001	<0.001	<0.001
11/7/2016	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
11/8/2016					<0.001		
1/18/2017	<0.001	<0.001	<0.001		<0.001	<0.001	
1/19/2017				<0.001			<0.001
2/21/2017	<0.001	<0.001				<0.001	
2/22/2017				<0.001	<0.001		<0.001
2/23/2017			<0.001				
5/3/2017		<0.001 (*)					
5/5/2017					<0.001	<0.001 (*)	
5/8/2017	<0.001		<0.001	<0.001			<0.001
6/30/2017			<0.001	<0.001			
7/5/2017					<0.001		<0.001
7/7/2017						7E-05 (J)	
7/10/2017	<0.001	8E-05 (J)					
3/29/2018			<0.001	<0.001			<0.001
3/30/2018	<0.001	<0.001			<0.001	<0.001	
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2020	<0.001	<0.001	<0.001	6.2E-05 (J)	<0.001	5.4E-05 (J)	<0.001
3/19/2020		0.0001 (J)			<0.001	7.5E-05 (J)	
3/20/2020	5.9E-05 (J)		<0.001	8.5E-05 (J)			<0.001
9/24/2020	<0.001	6.4E-05 (J)	<0.001	0.00037 (J)	<0.001	6.3E-05 (J)	9.5E-05 (J)
2/10/2021	5.1E-05 (J)	5E-05 (J)	<0.001	0.00072 (J)			
2/11/2021					<0.001		
2/12/2021						5.2E-05 (J)	6.6E-05 (J)
3/2/2021		5.6E-05 (J)					
3/3/2021	<0.001		<0.001	<0.001	<0.001	<0.001	0.00016 (J)
8/19/2021		<0.001					
8/20/2021	<0.001		<0.001	0.00096 (J)	<0.001	<0.001	<0.001
2/8/2022				<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001				

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.001	<0.001			
6/7/2016		<0.001			<0.001	<0.001	
7/27/2016		<0.001	<0.001	<0.001	<0.001		
7/28/2016						<0.001	
8/30/2016	<0.001						
9/16/2016		<0.001		<0.001			
9/19/2016			<0.001		<0.001	<0.001	
11/2/2016					0.0013 (J)		
11/3/2016		<0.001	<0.001	<0.001		<0.001	
11/14/2016	<0.001						
1/11/2017		<0.001	<0.001	<0.001			
1/13/2017					<0.001	<0.001	
2/24/2017	<0.001						
3/1/2017			<0.001	<0.001			
3/2/2017		8E-05 (J)					
3/6/2017		32 00 (0)			<0.001	<0.001	
4/26/2017			<0.001	<0.001	<0.001	<0.001	
5/2/2017		<0.001	50.00 I	50.00 I	50.00 I	50.00 I	
	<0.001	<0.001					
5/8/2017	<0.001		<0.001	0.000171			
6/28/2017		05.05.41)	<0.001	0.0001 (J)	-0.004	-0.001	
6/29/2017		8E-05 (J)			<0.001	<0.001	
7/11/2017	<0.001						
10/10/2017	<0.001						
10/11/2017							0.0001 (J)
11/20/2017							<0.001
1/11/2018							0.0002 (J)
2/20/2018							<0.001
3/28/2018		<0.001	<0.001	<0.001			
3/29/2018					<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
3/5/2019		<0.001		<0.001	<0.001	<0.001	
3/6/2019			<0.001				
4/2/2019		<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	
9/25/2019		<0.001			<0.001		
9/26/2019			<0.001	<0.001			
10/9/2019							<0.001
2/11/2020		<0.001	<0.001	<0.001			
2/12/2020					<0.001	<0.001	<0.001
3/24/2020		6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)	0.0001 0.00011 (J)	<0.001	
3/25/2020		J12 00 (0)	55 (5)	J12 00 (b)	3.00017(0)	0.001	5.1E-05 (J)
8/27/2020	<0.001						5.1E 55 (b)
9/22/2020	<0.001	4 1E 0E (I)	6E 05 (!)	0.7E.0E.(1)			
9/23/2020		4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)			

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/24/2020	, ,	, ,	, ,	, ,	9.2E-05 (J)	4.6E-05 (J)	<0.001
2/9/2021			5E-05 (J)	9.4E-05 (J)	6.3E-05 (J)	<0.001	
2/10/2021							<0.001
3/1/2021	<0.001						
3/3/2021		<0.001	<0.001	7.6E-05 (J)	4.5E-05 (J)		
3/4/2021						<0.001	<0.001
8/19/2021	<0.001						
8/26/2021				<0.001			<0.001
8/27/2021		<0.001	<0.001		<0.001		
9/1/2021						<0.001	
2/8/2022	<0.001						<0.001
2/9/2022		<0.001	<0.001	<0.001	<0.001	<0.001	

Constituent: Lead (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
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
6/2/2016		<0.001	<0.001	<0.001	N.001
7/26/2016		<0.001	<0.001	<0.001	
8/31/2016		~ 0.001	~0.001	~0.001	<0.001
9/14/2016		<0.001	<0.001	<0.001	N.001
11/2/2016		<0.001	<0.001	\0.001	
		<0.001	\0.001	-0.001	
11/4/2016				<0.001	-0.001
11/28/2016			-0.001	-0.001	<0.001
1/12/2017		-0.001	<0.001	<0.001	
1/13/2017		<0.001			-0.001
2/22/2017		-0.001			<0.001
3/6/2017		<0.001	0.0001 (1)	75.05 (1)	
3/7/2017		-0.001	0.0001 (J)	7E-05 (J)	
5/1/2017		<0.001	<0.001	-0.001	
5/2/2017				<0.001	0.004
5/8/2017			-0.001	-0.001	<0.001
6/27/2017		.0.004	<0.001	<0.001	
6/29/2017		<0.001			
7/17/2017	05.05 (1)				<0.001
10/12/2017	9E-05 (J)				
10/16/2017					<0.001
11/20/2017	<0.001				
1/10/2018	<0.001				.0.004
2/19/2018	<0.001	.0.001	.0.051	.0.021	<0.001
3/29/2018		<0.001	<0.001	<0.001	
4/3/2018	<0.001				
6/28/2018	<0.001				
8/6/2018					<0.001
8/7/2018	<0.001				
9/24/2018	<0.001				
2/25/2019					<0.001
3/4/2019		<0.001	<0.001	<0.001	
4/3/2019		<0.001	<0.001	<0.001	
6/12/2019					<0.001

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/19/2019					<0.001
8/21/2019	<0.001				
9/24/2019			<0.001	9E-05 (J)	
9/25/2019		<0.001			
10/8/2019					<0.001
10/9/2019	<0.001				
2/12/2020	<0.001	<0.001	<0.001	<0.001	
3/17/2020					<0.001
3/24/2020	<0.001		5.4E-05 (J)	6.8E-05 (J)	
3/25/2020		<0.001			
8/26/2020					<0.001
9/22/2020		<0.001	4.5E-05 (J)	4.2E-05 (J)	0.0001 (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				
3/2/2021			5.1E-05 (J)	9.2E-05 (J)	<0.001
3/3/2021		<0.001			
3/4/2021	<0.001				
8/20/2021					<0.001
8/26/2021		<0.001	<0.001	<0.001	
9/3/2021	<0.001				
2/8/2022	<0.001				<0.001
2/10/2022			<0.001	<0.001	
2/11/2022		<0.001			

		YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
(6/1/2016		0.015	<0.03				0.01
(6/2/2016	<0.03				<0.03	0.018	
	7/25/2016			0.002 (J)		<0.03		0.0132 (J)
	7/26/2016	<0.03	0.0135 (J)				0.0221 (J)	
9	9/13/2016		0.0112 (J)	<0.03				
(9/14/2016				0.004 (J)			0.012 (J)
(9/15/2016	<0.03					0.0197 (J)	
9	9/19/2016					<0.03		
	11/1/2016		0.0163 (J)			<0.03	0.0194 (J)	0.0115 (J)
	11/2/2016	<0.03						
	11/4/2016			<0.03	<0.03			
	12/15/2016				0.0026 (J)			
	1/10/2017	<0.03						
	1/11/2017		0.0166 (J)				0.0177 (J)	0.0085 (J)
	1/16/2017			0.0023 (J)	0.0023 (J)	<0.03		
2	2/21/2017					<0.03		
;	3/1/2017							0.0114 (J)
;	3/2/2017		0.0159 (J)	0.0025 (J)			0.0185 (J)	
;	3/3/2017				0.0013 (J)			
;	3/8/2017	<0.03						
4	4/26/2017	<0.03				<0.03	0.0183 (J)	0.0092 (J)
4	4/27/2017		0.0137 (J)	0.0027 (J)				
4	4/28/2017				0.0031 (J)			
	5/26/2017				0.0038 (J)			
	6/27/2017		0.0094 (J)	0.0024 (J)				
	6/28/2017		()	()	0.0026 (J)		0.0173 (J)	0.0085 (J)
	6/30/2017	<0.03			()	<0.03	()	()
	3/27/2018	<0.03		0.0023 (J)		0.0011 (J)		
	3/28/2018			()	0.0025 (J)	()	0.02 (J)	0.013 (J)
	3/29/2018		0.0078 (J)		()		. ,	()
	6/5/2018		0.0079 (J)					
	6/6/2018			0.0024 (J)				
	6/7/2018			()	0.0017 (J)		0.02 (J)	
	6/8/2018	<0.03			()		.,	0.012 (J)
	6/11/2018					0.0012 (J)		()
	10/1/2018	<0.03	0.0053 (J)	0.0023 (J)	<0.03	, ,	0.02 (J)	0.011 (J)
	10/2/2018		()	()		<0.03	.,	()
	2/26/2019	<0.03				0.0011 (J)		
	2/27/2019		0.0093 (J)	0.0023 (J)	0.0011 (J)	, ,	0.021 (J)	0.014 (J)
	3/28/2019		0.013 (J)	0.0022 (J)	, ,		, ,	•
	3/29/2019	<0.03	. ,	()	0.0016 (J)			
	4/1/2019				()	0.001 (J)	0.021 (J)	0.013 (J)
	9/24/2019		0.0046 (J)	0.0023 (J)	0.0011 (J)	()	. ,	()
	9/25/2019	<0.03	()	()	()	0.0011 (J)	0.02 (J)	0.01 (J)
	2/10/2020		0.011 (J)	0.0023 (J)		(-)	(-)	(-)
	2/11/2020		. ,	()	0.0012 (J)			0.013 (J)
	2/12/2020	<0.03			ν-,	0.0013 (J)	0.019 (J)	` '
	3/18/2020	<0.03		0.0024 (J)		ν-/	` '	
	3/19/2020		0.013 (J)	\-/	0.0022 (J)	0.0012 (J)	0.023 (J)	0.014 (J)
	9/23/2020		0.014 (J)	0.0024 (J)	0.0016 (J)	ν-,	0.023 (J)	0.013 (J)
	9/24/2020		` '	\-',	ν-,	0.0011 (J)	` '	` '
	9/25/2020	<0.03				ν-/		

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.03			0.0039 (J)		0.023 (J)	0.015 (J)
2/11/2021					0.0012 (J)		
2/12/2021		0.01 (J)	0.0025 (J)				
3/1/2021					0.0011 (J)		
3/2/2021	<0.03						
3/3/2021		0.012 (J)	0.0025 (J)	0.0016 (J)		0.024 (J)	0.017 (J)
8/19/2021	<0.03	0.013 (J)	0.0023 (J)		0.0012 (J)	0.023 (J)	
8/27/2021				0.0058 (J)			0.026 (J)
2/9/2022		0.013 (J)	0.0027 (J)	0.006 (J)		0.026 (J)	0.021 (J)
2/10/2022	<0.03						
2/11/2022					0.0014 (J)		

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.007	<0.03	0.0067	<0.03			
6/9/2016					0.0073	<0.03	0.0075
8/1/2016	0.0068 (J)	<0.03	0.008 (J)	<0.03			
8/2/2016					0.0073 (J)	<0.03	0.0078 (J)
9/20/2016	0.0062 (J)	<0.03	0.0111 (J)	<0.03			
9/21/2016					0.0067 (J)	<0.03	0.0074 (J)
11/7/2016	0.0057 (J)	<0.03	0.0097 (J)	<0.03		<0.03	0.0057 (J)
11/8/2016					0.0072 (J)		
1/18/2017	0.0066 (J)	<0.03	0.01 (J)		0.0067 (J)	<0.03	
1/19/2017				<0.03			0.0055 (J)
2/21/2017	0.0067 (J)	<0.03				<0.03	
2/22/2017				<0.03	0.0064 (J)		0.0063 (J)
2/23/2017			0.0099 (J)				
5/3/2017		<0.03					
5/5/2017					0.007 (J)	<0.03	
5/8/2017	0.007 (J)		0.0086 (J)	<0.03			0.0066 (J)
6/30/2017			0.0108 (J)	<0.03			
7/5/2017					0.0072 (J)		0.0058 (J)
7/7/2017						<0.03	
7/10/2017	0.0064 (J)	<0.03					
3/29/2018			0.011 (J)	<0.03			0.0049 (J)
3/30/2018	0.0068 (J)	<0.03			0.007 (J)	<0.03	
6/11/2018							0.0064 (J)
6/12/2018				<0.03	0.0073 (J)	<0.03	
6/13/2018	0.0071 (J)	<0.03	0.014 (J)				
10/2/2018	0.0064 (J)	<0.03	0.012 (J)	<0.03			0.006 (J)
10/3/2018					0.0069 (J)	<0.03	
2/27/2019	0.0069 (J)	<0.03	0.0096 (J)	<0.03	0.0063 (J)	<0.03	0.0053 (J)
4/1/2019			0.0082 (J)	<0.03	0.0065 (J)		0.0052 (J)
4/2/2019	0.0064 (J)	<0.03				<0.03	
9/25/2019	0.0073 (J)	<0.03					0.0057 (J)
9/26/2019			0.0075 (J)	<0.03	0.0064 (J)	<0.03	
2/13/2020	0.0073 (J)	<0.03	0.0079 (J)	<0.03	0.0069 (J)	<0.03	0.0057 (J)
3/19/2020		<0.03			0.007 (J)	<0.03	
3/20/2020	0.0072 (J)		0.0091 (J)	<0.03			0.0051 (J)
9/24/2020	0.0074 (J)	<0.03	0.0075 (J)	<0.03	0.0065 (J)	<0.03	0.005 (J)
2/10/2021	0.0067 (J)	<0.03	0.0067 (J)	0.00081 (J)			
2/11/2021					0.007 (J)		
2/12/2021						0.0053 (J)	<0.03
3/2/2021		<0.03					
3/3/2021	0.0077 (J)		0.0066 (J)	<0.03	0.0063 (J)	<0.03	0.0054 (J)
8/19/2021		<0.03					
8/20/2021	0.0079 (J)		0.0066 (J)	0.0013 (J)	0.0072 (J)	<0.03	0.0056 (J)
2/8/2022				<0.03	0.0076 (J)	<0.03	0.0064 (J)
2/10/2022	0.0086 (J)	<0.03	0.0072 (J)				

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			0.0088	0.015			
6/7/2016		<0.03			<0.03	0.0055	
7/27/2016		<0.03	0.0087 (J)	0.0049 (J)	<0.03		
7/28/2016						0.0045 (J)	
8/30/2016	0.0061 (J)						
9/16/2016		<0.03		0.0031 (J)			
9/19/2016			0.0043 (J)		<0.03	0.0054 (J)	
11/2/2016					<0.03		
11/3/2016		<0.03	<0.03	0.0021 (J)		<0.03	
11/14/2016	0.0064 (J)						
1/11/2017		0.0035 (J)	0.0052 (J)	0.0025 (J)			
1/13/2017					<0.03	0.0062 (J)	
2/24/2017	0.0049 (J)						
3/1/2017			0.0053 (J)	0.0029 (J)			
3/2/2017		<0.03					
3/6/2017					<0.03	0.0059 (J)	
4/26/2017			0.0041 (J)	0.0019 (J)	<0.03	0.0054 (J)	
5/2/2017		<0.03	()	. ,		. ,	
5/8/2017	0.0053 (J)						
6/28/2017	(0)		0.0039 (J)	0.0016 (J)			
6/29/2017		<0.03	(0)	(5)	<0.03	0.0047 (J)	
7/11/2017	0.0051 (J)	0.00			0.00	0.0017 (0)	
10/10/2017	0.0043 (J)						
10/11/2017	0.0040 (0)						0.0018 (J)
11/20/2017							0.0018 (J)
1/11/2018							0.0019 (J)
2/20/2018							<0.03
3/28/2018		<0.03	0.0041 (1)	0.0024 (J)			10.03
		<0.03	0.0041 (J)	0.0024 (3)	<0.02	0.0063 (1)	
3/29/2018	0.0045 (1)				<0.03	0.0062 (J)	
4/2/2018	0.0045 (J)						0.0022 (1)
4/3/2018						0.0004 (1)	0.0022 (J)
6/5/2018					.0.00	0.0061 (J)	
6/6/2018					<0.03		
6/7/2018			0.0032 (J)	0.001470			
6/11/2018		<0.03		0.0014 (J)			
6/28/2018							0.0026 (J)
8/7/2018							0.0024 (J)
9/19/2018	0.0043 (J)						
9/24/2018							0.0022 (J)
9/25/2018		<0.03	0.0036 (J)	0.0016 (J)	<0.03	0.0062 (J)	
3/5/2019		<0.03		0.0031 (J)	<0.03	0.0053 (J)	
3/6/2019			0.0033 (J)				
4/2/2019		<0.03				0.0051 (J)	
4/3/2019			0.0035 (J)	0.0028 (J)	<0.03		
8/20/2019	0.0036 (J)						
8/21/2019							0.0035 (J)
9/24/2019						0.0068 (J)	
9/25/2019		<0.03			<0.03		
9/26/2019			0.0032 (J)	0.0029 (J)			
10/8/2019	0.0036 (J)						
10/9/2019							0.0036 (J)
2/11/2020		<0.03	0.0033 (J)	0.005 (J)			

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					<0.03	0.0065 (J)	0.0041 (J)
3/17/2020	0.0046 (J)						
3/24/2020		0.0034 (J)	0.0033 (J)	0.0035 (J)	<0.03	0.0064 (J)	
3/25/2020							0.0049 (J)
8/27/2020	0.0039 (J)						
9/22/2020	0.0036 (J)						
9/23/2020		<0.03	0.003 (J)	0.0022 (J)			
9/24/2020					<0.03	0.0069 (J)	0.0054 (J)
2/9/2021			0.0031 (J)	0.0019 (J)	<0.03	0.006 (J)	
2/10/2021							0.0071 (J)
3/1/2021	0.0037 (J)						
3/3/2021		<0.03	0.0034 (J)	0.0021 (J)	<0.03		
3/4/2021						0.0062 (J)	0.0084 (J)
8/19/2021	0.0038 (J)						
8/26/2021				0.0019 (J)			0.0082 (J)
8/27/2021		<0.03	0.0032 (J)		<0.03		
9/1/2021						0.0057 (J)	
2/8/2022	0.0039 (J)						0.008 (J)
2/9/2022		<0.03	0.0032 (J)	0.0015 (J)	0.00082 (J)	0.0061 (J)	

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016	,	0.013	0.0049 (J)	<0.03	. •
7/26/2016		0.0123 (J)	0.0063 (J)	0.0027 (J)	
8/31/2016					<0.03
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	
11/28/2016					<0.03
1/12/2017			0.0054 (J)	0.0032 (J)	
1/13/2017		0.0121 (J)			
2/22/2017					<0.03
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					0.0014 (J)
6/27/2017			0.0018 (J)	0.0029 (J)	
6/29/2017		0.0145 (J)			
7/17/2017					<0.03
10/12/2017	<0.03				
10/16/2017					0.0016 (J)
11/20/2017	<0.03				
1/10/2018	<0.03				
2/19/2018	<0.03				<0.03
3/29/2018		0.014 (J)	0.0058 (J)	0.0034 (J)	
4/3/2018	<0.03				
6/6/2018			0.0068 (J)		
6/7/2018		0.013 (J)		0.0032 (J)	
6/28/2018	<0.03				
8/6/2018					<0.03
8/7/2018	<0.03				
9/24/2018	<0.03				
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)	
8/19/2019					0.0019 (J)
8/21/2019	<0.03				
9/24/2019			0.0065 (J)	0.0031 (J)	
9/25/2019		0.014 (J)			
10/8/2019					0.0015 (J)
10/9/2019	<0.03				
2/12/2020	<0.03	0.011 (J)	0.0066 (J)	0.0032 (J)	
3/17/2020					0.0017 (J)
3/24/2020	<0.03		0.0064 (J)	0.0033 (J)	
3/25/2020		0.014 (J)			
8/26/2020					0.0032 (J)
9/22/2020		0.013 (J)	0.0066 (J)	0.0034 (J)	0.0029 (J)
9/24/2020	<0.03				
2/8/2021			0.0063 (J)	0.0032 (J)	
2/9/2021		0.011 (J)			
2/10/2021	<0.03				
3/2/2021			0.0018 (J)	0.0031 (J)	0.0033 (J)
3/3/2021		0.012 (J)			

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2021	<0.03				
8/20/2021					0.0028 (J)
8/26/2021		0.0094 (J)	0.0075 (J)	0.0032 (J)	
9/3/2021	<0.03				
2/8/2022	0.00076 (J)				0.0031 (J)
2/10/2022			0.0076 (J)	0.0036 (J)	
2/11/2022		0.012 (J)			

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.0002	<0.0002				<0.0002
6/2/2016	<0.0002				<0.0002	<0.0002	
7/25/2016			<0.0002		<0.0002		<0.0002
7/26/2016	<0.0002	<0.0002				<0.0002	
9/13/2016		<0.0002	<0.0002				
9/14/2016				<0.0002			<0.0002
9/15/2016	<0.0002					<0.0002	
9/19/2016					<0.0002		
11/1/2016		<0.0002			<0.0002	<0.0002	<0.0002
11/2/2016	<0.0002						
11/4/2016			<0.0002	<0.0002			
12/15/2016				<0.0002			
1/10/2017	<0.0002						
1/11/2017		<0.0002				<0.0002	<0.0002
1/16/2017			<0.0002	<0.0002	<0.0002		
2/21/2017					<0.0002		
3/1/2017							<0.0002
3/2/2017		<0.0002	<0.0002			<0.0002	
3/3/2017				<0.0002			
3/8/2017	<0.0002						
4/26/2017	<0.0002				<0.0002	<0.0002	<0.0002
4/27/2017		<0.0002	<0.0002				
4/28/2017				<0.0002			
5/26/2017				<0.0002			
6/27/2017		<0.0002	<0.0002				
6/28/2017				<0.0002		<0.0002	<0.0002
6/30/2017	<0.0002				<0.0002		
3/27/2018	<0.0002		<0.0002		<0.0002		
3/28/2018				<0.0002		<0.0002	<0.0002
3/29/2018		<0.0002					
2/26/2019	6.1E-05 (J)				6.8E-05 (J)		
2/27/2019		5.1E-05 (J)	5.4E-05 (J)	<0.0002		6.2E-05 (J)	6.1E-05 (J)
3/28/2019		4E-05 (J)	<0.0002				
3/29/2019	<0.0002			<0.0002			
4/1/2019					8.2E-05 (J)	9.6E-05 (J)	8.4E-05 (J)
9/24/2019		<0.0002	<0.0002	<0.0002			
9/25/2019	<0.0002				<0.0002	<0.0002	<0.0002
2/10/2020		<0.0002	<0.0002				
2/11/2020				<0.0002			<0.0002
2/12/2020	<0.0002			-0.0000	<0.0002	<0.0002	-0.0000
2/10/2021	<0.0002			<0.0002	<0.0000	<0.0002	<0.0002
2/11/2021		<0.0000	<0.0000		<0.0002		
2/12/2021		<0.0002	<0.0002	<0.0000		-0.0000	-0.000 2
2/9/2022	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
2/10/2022	<0.0002				<0.0002		
2/11/2022					<0.0002		

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.0002	<0.0002	<0.0002	<0.0002			
6/9/2016					<0.0002 (*)	<0.0002 (*)	<0.0002 (*)
8/1/2016	<0.0002	<0.0002	<0.0002	<0.0002			
8/2/2016					<0.0002	<0.0002	<0.0002
9/20/2016	<0.0002	<0.0002	<0.0002	<0.0002			
9/21/2016					<0.0002	<0.0002	<0.0002
11/7/2016	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
11/8/2016					<0.0002		
1/18/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
1/19/2017				<0.0002			<0.0002
2/21/2017	<0.0002	<0.0002				<0.0002	
2/22/2017				<0.0002	<0.0002		<0.0002
2/23/2017			<0.0002				
5/3/2017		<0.0002					
5/5/2017					<0.0002	<0.0002	
5/8/2017	<0.0002		<0.0002	<0.0002			<0.0002
6/30/2017			<0.0002 (*)	<0.0002 (*)			
7/5/2017					<0.0002		<0.0002
7/7/2017						<0.0002	
7/10/2017	<0.0002	<0.0002					
3/29/2018			<0.0002	<0.0002			<0.0002
3/30/2018	<0.0002	<0.0002			<0.0002	<0.0002	
2/27/2019	5.1E-05 (J)	4.9E-05 (J)	5.4E-05 (J)	4.9E-05 (J)	4.8E-05 (J)	5.2E-05 (J)	4.7E-05 (J)
4/1/2019			4.5E-05 (J)	4.1E-05 (J)	<0.0002		3.9E-05 (J)
4/2/2019	5.1E-05 (J)	6.6E-05 (J)				<0.0002	
9/25/2019	<0.0002	<0.0002					<0.0002
9/26/2019			<0.0002	<0.0002	<0.0002	<0.0002	
2/13/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/10/2021	<0.0002	<0.0002	<0.0002	<0.0002			
2/11/2021					<0.0002		
2/12/2021						<0.0002	<0.0002
2/8/2022				<0.0002	<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002	<0.0002				

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.0002	<0.0002			
6/7/2016		9.5E-05 (J)			9.6E-05 (J)	9.6E-05 (J)	
7/27/2016		<0.0002	<0.0002	<0.0002	<0.0002		
7/28/2016						<0.0002	
8/30/2016	<0.0002						
9/16/2016		<0.0002		<0.0002			
9/19/2016			<0.0002		<0.0002	<0.0002	
11/2/2016					<0.0002		
11/3/2016		<0.0002	<0.0002	<0.0002		<0.0002	
11/14/2016	<0.0002						
1/11/2017		<0.0002	<0.0002	<0.0002			
1/13/2017					<0.0002	<0.0002	
2/24/2017	<0.0002						
3/1/2017			<0.0002	<0.0002			
3/2/2017		<0.0002					
3/6/2017					<0.0002	<0.0002	
4/26/2017			<0.0002	<0.0002	<0.0002	<0.0002	
5/2/2017		<0.0002					
5/8/2017	<0.0002						
6/28/2017			<0.0002	<0.0002			
6/29/2017		<0.0002			<0.0002	<0.0002	
7/11/2017	<0.0002						
10/10/2017	<0.0002						
10/11/2017							<0.0002
11/20/2017							7E-05 (J)
1/11/2018							<0.0002
2/20/2018							<0.0002
3/28/2018		<0.0002	<0.0002	<0.0002			
3/29/2018					<0.0002	<0.0002	
4/2/2018	<0.0002						
4/3/2018							<0.0002
6/28/2018							<0.0002
8/7/2018							<0.0002
9/19/2018	5.3E-05 (J)						
9/24/2018							<0.0002
9/25/2018		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
3/5/2019		<0.0002		<0.0002	<0.0002	<0.0002	
3/6/2019			<0.0002				
8/20/2019	<0.0002						
8/21/2019							<0.0002
2/11/2020		<0.0002	<0.0002	<0.0002			
2/12/2020					<0.0002	<0.0002	<0.0002
8/27/2020	<0.0002						
2/9/2021			<0.0002	<0.0002	<0.0002	<0.0002	
2/10/2021							<0.0002
3/3/2021		<0.0002	<0.0002	<0.0002	<0.0002		
3/4/2021						<0.0002	<0.0002
8/19/2021	<0.0002						
8/26/2021				<0.0002			<0.0002
8/27/2021		<0.0002	<0.0002		<0.0002		
9/1/2021						<0.0002	
2/8/2022	<0.0002						<0.0002

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Time Series

Constituent: Mercury (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

YGWA-47 (bg) YGWA-17S (bg) YGWA-18I (bg) YGWA-18S (bg) YGWA-20S (bg) YGWA-21I (bg) YGWA-39 (bg) 2/9/2022 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
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		-0.0000	-0.0000	-0.0000	1.36E-05 (J)
6/2/2016		<0.0002	<0.0002	<0.0002	
7/26/2016		<0.0002	<0.0002	<0.0002	
8/31/2016					<0.0002
9/14/2016		<0.0002	<0.0002	<0.0002	
11/2/2016		<0.0002	<0.0002		
11/4/2016				<0.0002	
11/28/2016					<0.0002
1/12/2017			<0.0002	<0.0002	
1/13/2017		<0.0002			
2/22/2017					<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			
7/17/2017					<0.0002
10/12/2017	<0.0002				
10/16/2017					<0.0002
11/20/2017	8E-05 (J)				
1/10/2018	<0.0002				
2/19/2018	<0.0002				<0.0002
3/29/2018		<0.0002	<0.0002	<0.0002	
4/3/2018	<0.0002				
6/28/2018	3.6E-05 (J)				
8/6/2018	. ,				<0.0002
8/7/2018	<0.0002				
9/24/2018	<0.0002				
9/26/2018		<0.0002	<0.0002	<0.0002	
2/25/2019					7.4E-05 (J)
3/4/2019		<0.0002	<0.0002	<0.0002	··· v1
6/12/2019		5.555 <u>L</u>	5.555 <u>£</u>	0.0002	<0.0002

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/19/2019					<0.0002
8/21/2019	<0.0002				
10/8/2019					<0.0002
2/12/2020	<0.0002	<0.0002	<0.0002	<0.0002	
5/6/2020					<0.0002
8/26/2020					<0.0002
9/22/2020					<0.0002
2/8/2021			<0.0002	<0.0002	
2/9/2021		<0.0002			
2/10/2021	<0.0002				
3/2/2021			<0.0002	<0.0002	<0.0002
3/3/2021		<0.0002			
3/4/2021	<0.0002				
8/20/2021					<0.0002
8/26/2021		<0.0002	<0.0002	<0.0002	
9/3/2021	0.00012 (J)				
2/8/2022	0.00013 (J)				<0.0002
2/10/2022			<0.0002	<0.0002	
2/11/2022		<0.0002			

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016	0.04	0.014 (J)	0.012 (J)		.0.04	0.0000 (1)	0.0055 (J)
6/2/2016	<0.01				<0.01	0.0093 (J)	
7/25/2016			0.0098 (J)		<0.01		0.0037 (J)
7/26/2016	<0.01	0.0132				0.0113	
9/13/2016		0.0127	0.01 (J)				
9/14/2016				0.0039 (J)			0.0034 (J)
9/15/2016	<0.01					0.0112	
9/19/2016					<0.01		
11/1/2016		0.0092 (J)			<0.01	0.0099 (J)	0.0025 (J)
11/2/2016	<0.01						
11/4/2016			0.01	0.0077 (J)			
12/15/2016				0.0066 (J)			
1/10/2017	<0.01						
1/11/2017		0.0093 (J)				0.0093 (J)	0.0033 (J)
1/16/2017			0.0086 (J)	0.0056 (J)	<0.01		
2/21/2017					<0.01		
3/1/2017							0.0044 (J)
3/2/2017		0.0099 (J)	0.01			0.0103	
3/3/2017				0.0049 (J)			
3/8/2017	<0.01						
4/26/2017	<0.01				<0.01	0.01	0.0075 (J)
4/27/2017		0.0103	0.0101				
4/28/2017				0.004 (J)			
5/26/2017				0.0029 (J)			
6/27/2017		0.0097 (J)	0.0093 (J)				
6/28/2017				0.0036 (J)		0.0102	0.008 (J)
6/30/2017	<0.01				<0.01		
3/27/2018	<0.01		0.0074 (J)		<0.01		
3/28/2018				0.0038 (J)		0.011	0.0025 (J)
3/29/2018		0.0076 (J)					
6/5/2018		0.0092 (J)					
6/6/2018			0.0073 (J)				
6/7/2018				0.004 (J)		0.011	
6/8/2018	<0.01						0.0041 (J)
6/11/2018					<0.01		
10/1/2018	<0.01	0.0085 (J)	0.0076 (J)	0.0042 (J)		0.012	0.0037 (J)
10/2/2018					<0.01		
2/26/2019	<0.01				<0.01		
2/27/2019		0.0087 (J)	0.0078 (J)	0.0041 (J)		0.011	0.0027 (J)
3/28/2019		0.0092 (J)	0.0082 (J)				
3/29/2019	<0.01			0.0041 (J)			
4/1/2019					<0.01	0.012	0.0021 (J)
9/24/2019		0.0072 (J)	0.0074 (J)	0.0054 (J)			
9/25/2019	<0.01				<0.01	0.012	0.0087 (J)
2/10/2020		0.0087 (J)	0.0062 (J)				
2/11/2020				0.0057 (J)			0.003 (J)
2/12/2020	<0.01				<0.01	0.013	
3/18/2020	<0.01		0.0056 (J)				
3/19/2020		0.0088 (J)		0.0046 (J)	<0.01	0.013	0.0043 (J)
9/23/2020		0.008 (J)	0.0059 (J)	0.0071 (J)		0.012	0.01
9/24/2020					<0.01		
9/25/2020	<0.01						

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.01			0.0041 (J)		0.014	0.0038 (J)
2/11/2021					<0.01		
2/12/2021		0.008 (J)	0.0056 (J)				
3/1/2021					<0.01		
3/2/2021	<0.01						
3/3/2021		0.0088 (J)	0.0049 (J)	0.0074 (J)		0.013	0.0036 (J)
8/19/2021	<0.01	0.0083 (J)	0.005 (J)		<0.01	0.013	
8/27/2021				0.0048 (J)			0.0099 (J)
2/9/2022		0.0093 (J)	0.0055 (J)	0.0057 (J)		0.013	0.0087 (J)
2/10/2022	<0.01						
2/11/2022					<0.01		

·	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.01	<0.01	0.0011 (J)	<0.01			
6/9/2016					0.0011 (J)	<0.01	<0.01
8/1/2016	<0.01	<0.01	0.0018 (J)	<0.01			
8/2/2016					0.0014 (J)	0.0006 (J)	<0.01
9/20/2016	<0.01	<0.01	<0.01	<0.01			
9/21/2016					<0.01	<0.01	<0.01
11/7/2016	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01
11/8/2016					<0.01		
1/18/2017	<0.01	<0.01	<0.01		<0.01	<0.01	
1/19/2017				<0.01			<0.01
2/21/2017	<0.01	<0.01				<0.01	
2/22/2017				<0.01	<0.01		<0.01
2/23/2017			<0.01				
5/3/2017		<0.01					
5/5/2017					0.0014 (J)	0.0007 (J)	
5/8/2017	<0.01		0.0011 (J)	<0.01			<0.01
6/30/2017			<0.01	<0.01			
7/5/2017					0.0014 (J)		<0.01
7/7/2017						<0.01	
7/10/2017	<0.01	<0.01					
3/29/2018			<0.01	<0.01			<0.01
3/30/2018	<0.01	<0.01			<0.01	<0.01	
6/11/2018							<0.01
6/12/2018				<0.01	<0.01	<0.01	
6/13/2018	<0.01	<0.01	<0.01				
10/2/2018	<0.01	<0.01	<0.01	<0.01			<0.01
10/3/2018					<0.01	<0.01	
2/27/2019	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4/1/2019			<0.01	<0.01	<0.01		<0.01
4/2/2019	<0.01	<0.01				<0.01	
9/25/2019	<0.01	<0.01					<0.01
9/26/2019			0.0013 (J)	<0.01	0.0013 (J)	<0.01	
2/13/2020	<0.01	<0.01	0.0014 (J)	<0.01	0.0013 (J)	<0.01	<0.01
3/19/2020		<0.01			0.0014 (J)	<0.01	
3/20/2020	<0.01		0.0014 (J)	<0.01			<0.01
9/24/2020	<0.01	<0.01	0.0015 (J)	<0.01	0.0012 (J)	0.00075 (J)	<0.01
2/10/2021	<0.01	<0.01	0.0016 (J)	<0.01	0.0010./."		
2/11/2021					0.0012 (J)	10.01	0.00000 (1)
2/12/2021		10.01				<0.01	0.00083 (J)
3/2/2021	-0.01	<0.01	0.0017 ("	-0.01	0.0011 ("	0.00000 ())	40.04
3/3/2021	<0.01	z0.01	0.0017 (J)	<0.01	0.0011 (J)	0.00083 (J)	<0.01
8/19/2021	<0.01	<0.01	0.004273	-0.01	0.001 (1)	-0.01	-0.01
8/20/2021	<0.01		0.0042 (J)	<0.01	0.001 (J)	<0.01	<0.01
2/8/2022 2/10/2022	<0.01	<0.01	0.0018 / 1	<0.01	0.0011 (J)	0.00082 (J)	<0.01
2/10/2022	<0.01	<0.01	0.0018 (J)				

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.01	<0.01			
6/7/2016		<0.01			<0.01	<0.01	
7/27/2016		<0.01	<0.01	<0.01	<0.01		
7/28/2016						<0.01	
8/30/2016	<0.01						
9/16/2016		<0.01		<0.01			
9/19/2016			<0.01		<0.01	<0.01	
11/2/2016					<0.01		
11/3/2016		<0.01	<0.01	<0.01		<0.01	
11/14/2016	<0.01						
1/11/2017		<0.01	<0.01	<0.01			
1/13/2017					<0.01	<0.01	
2/24/2017	<0.01						
3/1/2017			<0.01	<0.01			
3/2/2017		<0.01					
3/6/2017					<0.01	0.0007 (J)	
4/26/2017			<0.01	<0.01	<0.01	0.0008 (J)	
5/2/2017		<0.01					
5/8/2017	<0.01						
6/28/2017			<0.01	<0.01			
6/29/2017		<0.01			<0.01	<0.01	
7/11/2017	<0.01						
10/10/2017	<0.01						
10/11/2017							0.0094 (J)
11/20/2017							0.0081 (J)
1/11/2018							0.0074 (J)
2/20/2018							<0.01
3/28/2018		<0.01	<0.01	<0.01			
3/29/2018					<0.01	<0.01	
4/2/2018	<0.01						
4/3/2018							0.006 (J)
6/28/2018							0.005 (J)
8/7/2018							0.0045 (J)
9/19/2018	<0.01						
9/24/2018							0.0035 (J)
3/5/2019		<0.01		<0.01	<0.01	<0.01	
3/6/2019			<0.01				
8/20/2019	<0.01						
8/21/2019							0.0021 (J)
10/8/2019	<0.01						
10/9/2019							0.0018 (J)
2/11/2020		<0.01	<0.01	<0.01			
2/12/2020					<0.01	<0.01	0.0025 (J)
3/17/2020	<0.01						
3/24/2020		<0.01	<0.01	<0.01	<0.01	<0.01	
3/25/2020							0.002 (J)
8/27/2020	<0.01						
9/22/2020	<0.01						
9/23/2020		<0.01	<0.01	<0.01			
9/24/2020					<0.01	<0.01	0.0016 (J)
2/9/2021			<0.01	<0.01	<0.01	<0.01	
2/10/2021							0.0013 (J)

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/1/2021	<0.01						
3/3/2021		<0.01	<0.01	<0.01	<0.01		
3/4/2021						<0.01	0.0014 (J)
8/19/2021	<0.01						
8/26/2021				<0.01			0.0027 (J)
8/27/2021		<0.01	<0.01		<0.01		
9/1/2021						<0.01	
2/8/2022	<0.01						0.0035 (J)
2/9/2022		<0.01	<0.01	<0.01	<0.01	<0.01	

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	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		<0.01	0.0035 (J)	<0.01	
7/26/2016		<0.01	0.0042 (J)	<0.01	
8/31/2016					<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	
11/28/2016					<0.01
1/12/2017			0.0041 (J)	<0.01	
1/13/2017		<0.01			
2/22/2017					<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			
7/17/2017					<0.01
10/12/2017	<0.01				
10/16/2017					<0.01
11/20/2017	<0.01				
1/10/2018	<0.01				
2/19/2018	<0.01				<0.01
3/29/2018		<0.01	<0.01	<0.01	
4/3/2018	<0.01				
6/28/2018	<0.01				
8/6/2018					<0.01
8/7/2018	<0.01				
9/24/2018	<0.01				
3/4/2019		<0.01	<0.01	<0.01	
8/19/2019					<0.01
8/21/2019	<0.01				
10/9/2019	<0.01				
2/12/2020	<0.01	<0.01	0.0011 (J)	<0.01	
3/24/2020	<0.01		0.0011 (J)	<0.01	
3/25/2020		<0.01			
8/26/2020					<0.01
9/22/2020		<0.01	0.00099 (J)	<0.01	
9/24/2020	<0.01				
2/8/2021			0.0011 (J)	<0.01	
2/9/2021		<0.01			
2/10/2021	<0.01				
3/2/2021			<0.01	<0.01	
3/3/2021		<0.01			
3/4/2021	<0.01				
8/20/2021					<0.01
8/26/2021		<0.01	0.001 (J)	<0.01	
9/3/2021	<0.01				
2/8/2022	<0.01				<0.01
2/10/2022			0.00096 (J)	<0.01	
2/11/2022		<0.01			

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		7.46	6.33				7.72
6/2/2016	5.46				5.75	7.84	
7/25/2016			6.21		5.82		7.74
7/26/2016	5.45	7.43				7.88	
9/13/2016		7.44	6.16	7.41			
9/14/2016							7.65
9/15/2016	5.45					7.74	
9/19/2016					5.78 (D)		
11/1/2016		7.24			5.62	7.75	7.7
11/2/2016	5.41						
11/4/2016			6.29	7.12			
12/15/2016				7.24			
1/10/2017	5.37						
1/11/2017		7.3				7.66	7.53
1/16/2017			6.29	7.24	5.72		
2/21/2017					5.67		
3/1/2017							7.42
3/2/2017		7.23	6.28			7.68	
3/3/2017				7.22			
3/8/2017	5.41						
4/26/2017	5.02				5.56	7.45	7.4
4/27/2017		6.99	6.09				
4/28/2017		0.00		7.21			
5/26/2017				7.13			
6/27/2017		6.87	6.21				
6/28/2017		0.07	0.2.	7.06		7.65	7.5
6/30/2017	5.39				5.72	7.00	
10/3/2017		6.81	5.98	6.99			
10/4/2017					5.87	7.49	7.45
10/5/2017	5.49						
3/27/2018	5.47		6.25		5.83		
3/28/2018				7.3		7.91	7.74
3/29/2018		7.38					
6/5/2018		7.16					
6/6/2018			6.17				
6/7/2018				7.29		7.69	
6/8/2018	5.45						7.64
6/11/2018					5.69		
10/1/2018	5.39	6.8	5.9	7.07		7.39	7.47
10/2/2018					5.39		
2/26/2019	5.46				5.77		
2/27/2019		6.84	5.8	7.27		7.55	7.54
3/28/2019		6.99	6.15				
3/29/2019	5.34			7.06			
4/1/2019					5.62	7.87	7.74
9/24/2019		7.07	6.23	7.01			
9/25/2019	5.19				5.69	7.64	7.47
2/10/2020		7.2	6.1				
2/11/2020				7.38			7.09
2/12/2020	5.48				5.8	7.83	
3/18/2020	5.38		6.19				
3/19/2020		7.03		7.22	6	7.65	7.31

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/23/2020		7.15	6.01	7.22		7.57	7.37
9/24/2020					5.67		
9/25/2020	5.44						
2/10/2021	5.35			7.29		7.81	7.58
2/11/2021					5.73		
2/12/2021		7.14	6.21				
3/1/2021					5.78		
3/2/2021	5.49						
3/3/2021		7.2	5.38	7.92		8.39	8.23
8/19/2021	7.32	6.32	6.38			5.34	
8/27/2021				7.14			7.39
2/9/2022		7.12	6.24	5.89		7.97	7.66
2/10/2022	4.5						
2/11/2022					5.59		

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	5.85	5.24	6.32	6.24			
6/9/2016					6.42	6.39	6.19
8/1/2016	5.83	5.17	6.34	6.12			
8/2/2016					6.43	6.35	6.17
9/20/2016	5.89	5.35	6.36	6.3			
9/21/2016					6.45	6.39	6.2
11/7/2016	5.91	5.35	6.3	6.25		6.36	6.1
11/8/2016					6.37		
1/18/2017	5.84	5.2	6.31		6.27	6.23	
1/19/2017				6.2			6.22
2/21/2017	5.79	5.14				6.42	
2/22/2017				6.14	6.35		6.12
2/23/2017			6.18				
5/3/2017		5.28					
5/5/2017					6.36	6.4	
5/8/2017	5.84		6.24	6.11			6.11
6/30/2017			6.21	6.17			
7/5/2017					6.4		6.17
7/7/2017						6.46	
7/10/2017	5.92	5.25					
10/5/2017					6.43		6.17
10/6/2017				6.13			
10/9/2017			6.26			6.37	
10/10/2017	5.84	5.17					
3/29/2018			6.36	6.25			6.09
3/30/2018	6.19	5.19			6.39	6.35	
6/11/2018							6.17
6/12/2018				6.22	6.42	6.47	
6/13/2018	5.82	5.12	6.28				
10/2/2018	5.81	4.95	5.9	5.99			6.17
10/3/2018					6.21	6.01	
2/27/2019	5.79	5	6.31	6.26	6.32	6.38	6.19
4/1/2019			6.43	6.4	6.3		6.03
4/2/2019	5.87	5.13				6.7	
9/25/2019	5.79	5.24					6.21
9/26/2019			6.3	6.22	6.43	6.47	
2/13/2020	5.93	5.29	6.4	6.31	6.49	6.53	6.32
3/19/2020		5.46			7.01	6.98	
3/20/2020	5.94		6.32	6.18			6.17
9/24/2020	5.86	5.46	6.36	6.27	6.41	6.53	6.2
2/10/2021	5.96	5.18	6.29	6.21			
2/11/2021					6.57		
2/12/2021						6.6	6.24
3/2/2021		5.38					
3/3/2021	5.93		6.43	6.35	6.51	6.61	6.27
8/19/2021		5.12					
8/20/2021	5.78		6.17	6.18	6.23	6.38	6.07
2/8/2022				6.22	6.34	6.3	5.88
2/10/2022	5.84	5.31	6.23				

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			6.17	5.71			
6/7/2016		5.62			5.77	6.1	
7/27/2016		5.59	6.14	5.46	5.79		
7/28/2016						6.12	
8/30/2016	5.75						
9/16/2016		5.58					
9/19/2016			6.04	5.59	5.73	6.12	
11/2/2016					5.67		
11/3/2016		5.59	5.97	5.39		6.07	
11/14/2016	5.59						
1/11/2017		5.59	6.05	5.48			
1/13/2017					5.79	6.41	
2/24/2017	5.49						
3/1/2017			5.94	5.41			
3/2/2017		5.54					
3/6/2017					5.63	6.34	
4/26/2017			5.99	5.4	5.66	6.32	
5/2/2017		5.47					
5/8/2017	5.58						
6/28/2017			6	5.36			
6/29/2017		5.56			5.85	6.47	
7/11/2017	5.58						
10/3/2017						6.56	
10/4/2017		5.57		5.32	5.83		
10/5/2017			6.11				
10/10/2017	5.49						
10/11/2017	0.10						6.4
11/20/2017							6.33
1/11/2018							6.29
2/20/2018							7.22
3/28/2018		5.59	6.1	5.34			1.22
3/29/2018		0.00		0.01	5.93	6.75	
4/2/2018	6.3 (o)				0.00	0.70	
4/3/2018	0.0 (0)						6.87
6/5/2018						6.09	0.07
6/6/2018					5.86	0.00	
6/7/2018			5.98		3.00		
6/11/2018		5.58	3.30	5.28			
6/28/2018		0.00		0.20			6.18
8/7/2018							6.08
9/19/2018	5.48						0.00
9/24/2018	5.46						5.81
9/25/2018		5.59	5.81	4.86	5.84	6.67	3.01
			5.61				
3/5/2019		5.48	E 00	5.26	6.07	7.22	
3/6/2019 3/27/2019	E 92		5.99				E 94
	5.83	E 74				6.04	5.84
4/2/2019		5.74	6.20	E 47	E 71	6.94	
4/3/2019	F F0		6.29	5.47	5.71		
8/20/2019	5.58						F 06
8/21/2019						6.97	5.96
9/24/2019		E 40			E 96	6.87	
9/25/2019		5.49			5.86		

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/26/2019			6.04	5.2			
10/8/2019	5.59						
10/9/2019							5.81
2/11/2020		5.58	6.07	5.3			
2/12/2020					6	7.13	5.97
3/17/2020	5.57						
3/24/2020		5.57	5.98	5.33	5.86	6.35	
3/25/2020							5.78
8/27/2020	4.88						
9/22/2020	5.46						
9/23/2020		5.58	6.01	5.29			
9/24/2020					5.8	6.7	5.7
2/9/2021			6.12	5.43	5.86	6.95	
2/10/2021							5.8
3/1/2021	5.48						
3/3/2021		5.52	5.89	5.31	5.89		
3/4/2021						6.8	5.54
8/19/2021	5.5						
8/26/2021				4.4			6.91
8/27/2021		5.27	5.4		5.57		
9/1/2021						6.65	
2/8/2022	5.4						5.78
2/9/2022		5.53	5.98	5.28	5.91	6.84	

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
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		6.26	7.67	E 7E	5.64
6/2/2016		6.36	7.67	5.75	
7/26/2016		6.22	7.66	5.72	
9/14/2016		6.23	7.6	5.74	
11/2/2016		6.08	7.35		
11/4/2016				5.61	
11/28/2016					6.23
1/12/2017			7.49	5.71	
1/13/2017		6.19			
2/22/2017					6.21
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				3.00	6.12
			7 32	5.7	V. 12
6/27/2017		0.01	7.32	5.7	
6/29/2017		6.21			
7/17/2017					6.03
10/3/2017			7.48	5.79	
10/5/2017		6.16			
10/12/2017	5.43				
10/16/2017					6.12
11/20/2017	5.1				
1/10/2018	4.97				
2/19/2018	5.6				6.13
3/29/2018		6.09	7.02	5.63	
4/3/2018	5.84				
6/6/2018			7.43		
		6 12	7.40	5.63	
6/7/2018	E 24	6.12		5.63	
6/28/2018	5.24				
8/6/2018					6.01
8/7/2018	5.18				
9/24/2018	5.14				
9/26/2018		5.84	7.13	5.63	
					6.51
2/25/2019			7.40	5.75	
2/25/2019 3/4/2019		6.18	7.46	0.70	
	5.3	6.18	7.46	0.70	
3/4/2019 3/26/2019	5.3				
3/4/2019 3/26/2019 4/3/2019	5.3	6.18	7.46	5.63	6.3
3/4/2019 3/26/2019	5.3				6.3 6.23

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/21/2019	5.26				
9/24/2019			6.93	5.6	
9/25/2019		6.2			
10/8/2019					6.28
10/9/2019	5.22				
2/12/2020	5.3	6.15	7.52	5.83	
3/17/2020					6.14
3/24/2020	5.29		7.34	5.81	
3/25/2020		6.26			
5/6/2020					6.24
8/26/2020					5.67
9/22/2020		5.8	7.19	5.99	5.78
9/24/2020	5.43				
2/8/2021				5.67	
2/9/2021		6.06			
2/10/2021	5.19				
3/2/2021			7.15	5.63	5.42
3/3/2021		6.21			
3/4/2021	5.23				
8/20/2021					5.86
8/26/2021		5.82	7.16	5.51	
9/3/2021	4.75				
2/8/2022	5.26				5.83
2/10/2022			6.99	5.14	
2/11/2022		5.95			

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.005	<0.005				<0.005
6/2/2016	0.0011 (J)				<0.005	<0.005	
7/25/2016			<0.005		<0.005		<0.005
7/26/2016	0.0016 (J)	<0.005				<0.005	
9/13/2016		<0.005	<0.005				
9/14/2016				<0.005			<0.005
9/15/2016	0.0014 (J)					<0.005	
9/19/2016					<0.005		
11/1/2016		<0.005			<0.005	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			<0.005	<0.005			
12/15/2016				<0.005			
1/10/2017	0.0012 (J)						
1/11/2017		<0.005				<0.005	<0.005
1/16/2017			<0.005	<0.005	<0.005		
2/21/2017					<0.005		
3/1/2017							<0.005
3/2/2017		<0.005	<0.005			<0.005	
3/3/2017				<0.005			
3/8/2017	<0.005						
4/26/2017	<0.005				<0.005	<0.005	<0.005
4/27/2017		<0.005	<0.005				
4/28/2017				<0.005			
5/26/2017				<0.005			
6/27/2017		<0.005	<0.005				
6/28/2017				<0.005		<0.005	<0.005
6/30/2017	<0.005				<0.005		
3/27/2018	<0.005		<0.005		<0.005		
3/28/2018				<0.005		<0.005	<0.005
3/29/2018		<0.005					
2/26/2019	<0.005				<0.005		
2/27/2019		<0.005	<0.005	<0.005		<0.005	<0.005
3/28/2019		<0.005	<0.005				
3/29/2019	0.0019 (J)			<0.005			
4/1/2019					<0.005	<0.005	<0.005
9/24/2019		<0.005	<0.005	<0.005			
9/25/2019	<0.005				<0.005	<0.005	<0.005
2/10/2020		<0.005	<0.005				
2/11/2020				<0.005			<0.005
2/12/2020	<0.005				<0.005	<0.005	
3/18/2020	<0.005		<0.005				
3/19/2020		<0.005		<0.005	<0.005	<0.005	<0.005
9/23/2020		<0.005	<0.005	<0.005		<0.005	<0.005
9/24/2020					<0.005		
9/25/2020	<0.005						
2/10/2021	<0.005			<0.005		<0.005	<0.005
2/11/2021					<0.005		
2/12/2021		<0.005	<0.005				
3/1/2021					<0.005		
3/2/2021	<0.005						
3/3/2021		<0.005	<0.005	<0.005		<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005		<0.005	<0.005	

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.005			<0.005
2/9/2022		<0.005	<0.005	<0.005		<0.005	<0.005
2/10/2022	0.0014 (J)						
2/11/2022					<0.005		

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.0016	0.0003 (J)	<0.005	<0.005			
6/9/2016					<0.005	<0.005	<0.005
8/1/2016	0.0023 (J)	0.0014 (J)	<0.005	<0.005			
8/2/2016					<0.005	<0.005	<0.005
9/20/2016	0.0022 (J)	<0.005	<0.005	<0.005			
9/21/2016					<0.005	0.001 (J)	<0.005
11/7/2016	0.0017 (J)	<0.005	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	0.002 (J)	0.0012 (J)	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	0.0018 (J)	0.0014 (J)				<0.005	
2/22/2017				<0.005	0.0012 (J)		<0.005
2/23/2017			<0.005				
5/3/2017		<0.005					
5/5/2017					<0.005	<0.005	
5/8/2017	<0.005		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		<0.005
7/7/2017						<0.005	
7/10/2017	0.002 (J)	<0.005					
3/29/2018			<0.005	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	<0.005	
2/27/2019	0.002 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	0.0017 (J)	<0.005				<0.005	
9/25/2019	0.0019 (J)	<0.005					<0.005
9/26/2019			<0.005	<0.005	<0.005	<0.005	
2/13/2020	0.0019 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/19/2020		<0.005			<0.005	<0.005	
3/20/2020	0.0019 (J)		<0.005	<0.005			<0.005
9/24/2020	0.0031 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2021	0.0026 (J)	<0.005	<0.005	<0.005			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	0.0034 (J)		<0.005	<0.005	<0.005	<0.005	<0.005
8/19/2021		<0.005					
8/20/2021	0.0026 (J)		<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2022				<0.005	<0.005	<0.005	<0.005
2/10/2022	0.0042 (J)	<0.005	<0.005				

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.005	<0.005			
6/7/2016		0.001 (J)			<0.005	0.00048 (J)	
7/27/2016		0.0012 (J)	<0.005	<0.005	<0.005		
7/28/2016						<0.005	
8/30/2016	0.0017 (J)						
9/16/2016		0.0015 (J)		<0.005			
9/19/2016			<0.005		<0.005	0.0014 (J)	
11/2/2016					<0.005		
11/3/2016		0.0015 (J)	<0.005	<0.005		<0.005	
11/14/2016	<0.005						
1/11/2017		0.0014 (J)	<0.005	<0.005			
1/13/2017					<0.005	<0.005	
2/24/2017	0.0011 (J)						
3/1/2017			<0.005	<0.005			
3/2/2017		0.0017 (J)					
3/6/2017					<0.005	<0.005	
4/26/2017			<0.005	<0.005	<0.005	<0.005	
5/2/2017		<0.005					
5/8/2017	<0.005						
6/28/2017			<0.005	<0.005			
6/29/2017		<0.005			<0.005	<0.005	
7/11/2017	<0.005						
10/10/2017	<0.005						
10/11/2017							<0.005
11/20/2017							<0.005
1/11/2018							<0.005
2/20/2018							<0.005
3/28/2018		<0.005	<0.005	<0.005			
3/29/2018					<0.005	<0.005	
4/2/2018	<0.005						
4/3/2018							<0.005
6/5/2018						<0.005	
6/6/2018					<0.005		
6/7/2018		.0.005	<0.005	.0.005			
6/11/2018		<0.005		<0.005			0.005
6/28/2018							<0.005
8/7/2018 9/19/2018	<0.00E						<0.005
	<0.005						0.0015 / IV
9/24/2018 9/25/2018		<0.005	<0.00E	<0.005	<0.00E	<0.005	0.0015 (J)
3/5/2019		<0.005	<0.005	<0.005	<0.005 <0.005	<0.005	
3/6/2019		<0.005	<0.005	<0.005	<0.005	<0.005	
4/2/2019		<0.005	<0.005			<0.005	
4/3/2019		SU.UUJ	<0.005	<0.005	<0.005	×0.005	
8/20/2019	<0.005		~U.UUU	~U.UU3	~U.UU		
8/21/2019	~0.003						<0.005
9/24/2019						<0.005	-0.000
9/25/2019		<0.005			<0.005	×0.005	
9/26/2019		NO.003	<0.005	<0.005	~U.UUJ		
10/9/2019			.0.000	·0.000			<0.005
2/11/2020		<0.005	<0.005	<0.005			0.000
2/11/2020		-0.000	-0.000	-0.000	<0.005	<0.005	<0.005
211212020					٠٠.٥٥٥	٠٠.٥٥٥	-0.000

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/24/2020		<0.005	<0.005	<0.005	<0.005	<0.005	
3/25/2020							<0.005
8/27/2020	<0.005						
9/23/2020		<0.005	<0.005	<0.005			
9/24/2020					<0.005	<0.005	<0.005
2/9/2021			<0.005	<0.005	<0.005	<0.005	
2/10/2021							<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						
8/26/2021				<0.005			<0.005
8/27/2021		<0.005	<0.005		<0.005		
9/1/2021						<0.005	
2/8/2022	<0.005						<0.005
2/9/2022		<0.005	<0.005	<0.005	<0.005	<0.005	

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
5/1/2007	(0,	(0,	(0/	(0,	<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		<0.00E	<0.00E	<0.00E	<0.005
6/2/2016		<0.005	<0.005	<0.005	
7/26/2016		0.0009 (J)	<0.005	0.0009 (J)	40.005
8/31/2016		.0.005	.0.005	.0.005	<0.005
9/14/2016		<0.005	<0.005	<0.005	
11/2/2016		<0.005	<0.005	.0.005	
11/4/2016				<0.005	
11/28/2016			.0.005	.0.005	<0.005
1/12/2017			<0.005	<0.005	
1/13/2017		<0.005			
2/22/2017					<0.005
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			
7/17/2017					<0.005
10/12/2017	<0.005				
10/16/2017					<0.005
11/20/2017	0.0042 (J)				
1/10/2018	0.0043 (J)				
2/19/2018	<0.005				<0.005
3/29/2018		<0.005	<0.005	<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)				
8/6/2018					<0.005
8/7/2018	0.0031 (J)				
9/24/2018	0.0026 (J)				
9/26/2018		<0.005	<0.005	<0.005	
2/25/2019					<0.005

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.005	<0.005	<0.005	
4/3/2019		<0.005	<0.005	<0.005	
6/12/2019					<0.005
8/19/2019					<0.005
8/21/2019	0.0024 (J)				
9/24/2019			<0.005	<0.005	
9/25/2019		<0.005			
10/8/2019					<0.005
10/9/2019	0.0026 (J)				
2/12/2020	0.002 (J)	<0.005	<0.005	<0.005	
3/17/2020	• •				<0.005
3/24/2020	0.002 (J)		<0.005	<0.005	
3/25/2020	,	<0.005			
8/26/2020					<0.005
9/22/2020		<0.005	<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	<0.005
3/3/2021		0.0019 (J)			
3/4/2021	<0.005	(-,			
8/20/2021					<0.005
8/26/2021		<0.005	<0.005	<0.005	0.000
9/3/2021	<0.005	0.000	0.000	3.000	
2/8/2022	0.0014 (J)				<0.005
2/10/2022	3.0014 (0)		<0.005	<0.005	0.000
2/11/2022		<0.005	0.000	3.000	
2111/2022		0.000			

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		5	4.2				12
6/2/2016	6.6				1.3	5.8	
7/25/2016			3.7		1.2		8.4
7/26/2016	6.1	5.4				6.7	
9/13/2016		2.9	5.2				
9/14/2016				9.4			8.6
9/15/2016	6.1					6	
9/19/2016					1.2		
11/1/2016		3.9			1.3	4.9	8.9
11/2/2016	6.3						
11/4/2016			5	13			
12/15/2016			Ū	1.8			
1/10/2017	5.9			1.0			
1/11/2017	3.3	3.7				4.5	8.6
		3.7	7.0	11	-1	4.5	0.0
1/16/2017			7.9	11	<1		
2/21/2017					1.4		
3/1/2017							9.3
3/2/2017		4.6	7.4			4.4	
3/3/2017				8.8			
3/8/2017	7						
4/26/2017	7				1.4	5.1	11
4/27/2017		5.2	7.4				
4/28/2017				10			
5/26/2017				12			
6/27/2017		5.9	6.4				
6/28/2017				11		5.4	12
6/30/2017	6.5				<1		
10/3/2017		6.6	5.9	7.9			
10/4/2017					1.4	6.2	12
10/5/2017	7.9						
6/5/2018		6.4					
6/6/2018			4.4				
6/7/2018				8.8		6.7	
6/8/2018	6.4						9.6
6/11/2018					1.1		
10/1/2018	6.8	5.6	4	9.1		7.1	9.1
10/2/2018	0.0	0.0	-	0.1	1	7.1	3.1
3/28/2019		0	4.3		'		
	7.0	8	4.5	0			
3/29/2019	7.3			9	0.00(1)	7.0	0.5
4/1/2019					0.96 (J)	7.2	8.5
9/24/2019		5.3	4.3	9.1		_	
9/25/2019	6.6				0.81 (J)	7	13.8
3/18/2020	8.1		5.3				
3/19/2020		10		12.4	1.6	9	12.9
9/23/2020		8.1	3.4	11.8		6.9	16.8
9/24/2020					0.69 (J)		
9/25/2020	6.1						
3/1/2021					0.88 (J)		
3/2/2021	6						
3/3/2021		9	4.4	10.6		7	9.6
8/19/2021	6.7	8.9	4.9		1	7.5	
8/27/2021				16.7			18.2

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	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		9.3	5.1	18		7.2	16
2/10/2022	6.2						
2/11/2022					2.8		

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	81	110	3.2	26			
6/9/2016					8.7	5.2	33
8/1/2016	75	96	3.6	27			
8/2/2016					7.5	4.5	32
9/20/2016	78	100	5.6	21			
9/21/2016					8	<1 (*)	32
11/7/2016	81	100	5.4	24		4.3	33
11/8/2016					8.3		
1/18/2017	95	100	3.5		8	2.7	
1/19/2017				25			32
2/21/2017	80	96				3	
2/22/2017				24	8.2		31
2/23/2017			4.9				
5/3/2017		100					
5/5/2017					<1 (*)	<1 (*)	
5/8/2017	84		3.9	23			32
6/30/2017			5	23			
7/5/2017					8.1		31
7/7/2017						2.7	
7/10/2017	84	100					
10/5/2017					8.6		31
10/6/2017				23			
10/9/2017			5.1			2.9	
10/10/2017	82	97					
6/11/2018							30.6
6/12/2018				18.1	8.2	2.9	
6/13/2018	76.5	93.3	6.1				
10/2/2018	83.9	99	6.1	20.2			30.8
10/3/2018					8	2.1	
4/1/2019			4.1	18.3	8.2		30.4
4/2/2019	77.6	94.5				2.4	
9/25/2019	80.1	97					30
9/26/2019			4.2	18.2	7.9	1.6	
3/19/2020		99.4			9.1	1.7	
3/20/2020	84.7		5.2	21.1			33
9/24/2020	85.6	92.3	3	16.6	7.2	0.99 (J)	26.2
3/2/2021		92.7					
3/3/2021	89.3		2.6	451	8.6	4.9	26.6
8/19/2021		86.5					
8/20/2021	84		2.9	18	8.9	5.4	24.7
2/8/2022				16.3	8.1	10.5	22.9
2/10/2022	81.8	86.5	2.4				

0.10.10	040	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/20			4.4	1.2	1.8	.4	F.0	
6/7/2			4.4	4.7	1.0	<1	5.2	
7/27/			4.7	1.7	1.9	0.08 (J)	E 4	
7/28/							5.1	
8/30/2		160						
9/16/2			4.8		1.7			
9/19/2				1.8		0.08 (J)	4.8	
11/2/2						0.1 (J)		
11/3/2			5.3	0.69 (J)	1.9		5	
	1/2016	150						
1/11/2			5.2	<1	1.7			
1/13/2						<1	4.3	
2/24/2		120						
3/1/20				1.8	<1			
3/2/20			5					
3/6/20						<1	4.5	
4/26/2				1.6	1.9	<1	4.9	
5/2/20			5					
5/8/20		120						
6/28/2				<1	<1			
6/29/2			5.2			<1	5.5	
7/11/2		110						
10/3/2							5.8	
10/4/2			5.3		1.7	<1		
10/5/2				1.6				
	0/2017	93						
	1/2017							20
	0/2017							24
1/11/								23
2/20/2								20.6
4/2/20		88.8						
4/3/20								24.5
6/5/20							6.1	
6/6/20						0.049 (J)		
6/7/20				0.68 (J)				
6/11/2			5.2		0.95 (J)			
6/28/2								22
8/7/20								20.7
9/19/2		75						
9/24/2								21.2
9/25/2			6.1	1	1.5	0.13 (J)	7	
3/27/2		65.9						17.7
4/2/2			5.1				3.8	
4/3/20				0.82 (J)	1.3	0.12 (J)		
9/24/2							1	
9/25/2			5.5			<1		
9/26/2				0.64 (J)	1			
10/8/2		52.3						
10/9/2								15
3/17/2		71.6						
3/24/2			5.4	<1	0.99 (J)	<1	3	
3/25/2	2020							14.3

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	51.5						
9/23/2020		5.1	0.53 (J)	1.1			
9/24/2020					<1	3.6	11.7
3/1/2021	51.6						
3/3/2021		5.2	<1	1	<1		
3/4/2021						4.5	12
8/19/2021	52.6						
8/26/2021				1.2			19.2
8/27/2021		5.3	0.59 (J)		<1		
9/1/2021						5	
2/8/2022	50.9						14.6
2/9/2022		4.8	0.51 (J)	1.1	<1	3.9	

	VC\\\\\ 40 (b~)	VC\\\\\ 41 (b.s.)			CIMA 2 (kg)
6/2/2016	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		8	20	1.9	
7/26/2016		7.7	20	1.8	20
8/31/2016		7.5	10	1.0	29
9/14/2016		7.5	19	1.8	
11/2/2016		8.2	20		
11/4/2016				2	•
11/28/2016					36
1/12/2017			19	1.9	
1/13/2017		8.1			
2/22/2017					43
3/6/2017		8			
3/7/2017			20	2.1	
5/1/2017		8.4	20		
5/2/2017				2	
5/8/2017					60
6/27/2017			18	2.1	
6/29/2017		9.2			
7/17/2017					63
10/3/2017			16	2.3	
10/5/2017		9.6			
10/12/2017	17				
10/16/2017					62
11/20/2017	71				
1/10/2018	66				
2/19/2018	57.2				64.6
4/3/2018	49.4				
6/6/2018			8.3		
6/7/2018		8.5		2	
6/28/2018	43.8				
8/6/2018					42.1
8/7/2018	40.5				
9/24/2018	39.7				
9/26/2018		10.2	7.9	2.3	
2/25/2019					42.1
3/26/2019	34.3				
4/3/2019		8.5	7	2.1	
6/12/2019					83.4
9/24/2019			5.5	2.4	
9/25/2019		8.5			
10/8/2019					128
10/9/2019	27.9				
3/17/2020					98.6
3/24/2020	25.2		5.9	2.1	
3/25/2020		8.8			
9/22/2020		8.2	5.5	2.1	145
9/24/2020	22.9				
3/2/2021			2.6	2.3	156
3/3/2021		7.8	-	-	
3/4/2021	21.5				
8/20/2021	-				121
8/26/2021		8.5	6	2.4	
9/3/2021	21.3		-		
	-				

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	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2022	17.9				107
2/10/2022			4.9	2.4	
2/11/2022		7.7			

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.001	<0.001				<0.001
6/2/2016	<0.001				<0.001	<0.001	
7/25/2016			<0.001		<0.001		<0.001
7/26/2016	<0.001	<0.001				0.0001 (J)	
9/13/2016		<0.001	<0.001				
9/14/2016				<0.001			<0.001
9/15/2016	<0.001					<0.001	
9/19/2016					<0.001		
11/1/2016		<0.001			<0.001	<0.001	<0.001
11/2/2016	<0.001						
11/4/2016	0.001		<0.001	<0.001			
12/15/2016			10.001	<0.001			
1/10/2017	<0.001			~0.001			
	<0.001	<0.001				-0.001	c0 001
1/11/2017		<0.001			.0.004	<0.001	<0.001
1/16/2017			<0.001	<0.001	<0.001		
2/21/2017					<0.001		
3/1/2017							<0.001
3/2/2017		<0.001	<0.001			<0.001	
3/3/2017				<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				
4/28/2017				<0.001			
5/26/2017				<0.001			
6/27/2017		<0.001	<0.001				
6/28/2017				<0.001		<0.001	<0.001
6/30/2017	<0.001				<0.001		
3/27/2018	<0.001		<0.001		<0.001		
3/28/2018				<0.001		<0.001	<0.001
3/29/2018		<0.001					
2/26/2019	<0.001				<0.001		
2/27/2019		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2020		<0.001	5.5E-05 (J)				
2/11/2020			(.)	<0.001			<0.001
2/12/2020	8.9E-05 (J)			0.001	<0.001	<0.001	0.00
3/18/2020	<0.001		<0.001		-0.001	-0.001	
3/19/2020	10.001	<0.001	10.001	<0.001	<0.001	<0.001	<0.001
			~0.001		<0.001		
9/23/2020		<0.001	<0.001	<0.001	.0.004	<0.001	0.00016 (J)
9/24/2020	.0.004				<0.001		
9/25/2020	<0.001						
2/10/2021	<0.001			<0.001		<0.001	<0.001
2/11/2021					<0.001		
2/12/2021		<0.001	<0.001				
2/9/2022		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2022	<0.001						
2/11/2022					<0.001		

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.001	<0.001	<0.001	0.00012 (J)			
6/9/2016					<0.001	<0.001	<0.001
8/1/2016	<0.001	<0.001	<0.001	0.0001 (J)			
8/2/2016					<0.001	<0.001	<0.001
9/20/2016	<0.001	<0.001	<0.001	<0.001			
9/21/2016					<0.001	<0.001	<0.001
11/7/2016	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
11/8/2016					<0.001		
1/18/2017	<0.001	<0.001	<0.001		<0.001	<0.001	
1/19/2017				<0.001			<0.001
2/21/2017	<0.001	<0.001				<0.001	
2/22/2017				<0.001	<0.001		<0.001
2/23/2017			<0.001				
5/3/2017		<0.001					
5/5/2017					<0.001	<0.001	
5/8/2017	<0.001		<0.001	0.0001 (J)			<0.001
6/30/2017			<0.001	0.0001 (J)			
7/5/2017					<0.001		<0.001
7/7/2017						<0.001	
7/10/2017	<0.001	<0.001					
3/29/2018			<0.001	<0.001			<0.001
3/30/2018	<0.001	<0.001			<0.001	<0.001	
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2020	<0.001	5.7E-05 (J)	<0.001	0.0001 (J)	<0.001	<0.001	<0.001
3/19/2020		5.5E-05 (J)			<0.001	<0.001	
3/20/2020	<0.001		<0.001	0.00011 (J)			<0.001
9/24/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/10/2021	<0.001	<0.001	<0.001	<0.001			
2/11/2021					<0.001		
2/12/2021						<0.001	<0.001
2/8/2022				<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001				

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.001	<0.001			
6/7/2016		<0.001			<0.001	<0.001	
7/27/2016		<0.001	<0.001	<0.001	<0.001		
7/28/2016						<0.001	
8/30/2016	<0.001						
9/16/2016		<0.001		<0.001			
9/19/2016			<0.001		<0.001	<0.001	
11/2/2016					<0.001		
11/3/2016		<0.001	<0.001	<0.001		<0.001	
11/14/2016	<0.001						
1/11/2017		<0.001	<0.001	<0.001			
1/13/2017					<0.001	<0.001	
2/24/2017	<0.001						
3/1/2017			<0.001	<0.001			
3/2/2017		<0.001					
3/6/2017					<0.001	<0.001	
4/26/2017			<0.001	<0.001	<0.001	<0.001	
5/2/2017		<0.001	10.001	10.001	10.001	10.001	
5/8/2017	<0.001	10.001					
6/28/2017	~0.001		<0.001	<0.001			
6/29/2017		<0.001	~0.001	\0.001	<0.001	<0.001	
7/11/2017	<0.001	<0.001			\0.001	\0.001	
10/10/2017	<0.001						-0.001
10/11/2017							<0.001
11/20/2017							<0.001
1/11/2018							<0.001
2/20/2018							<0.001
3/28/2018		<0.001	<0.001	<0.001			
3/29/2018					<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
9/25/2018						<0.001	
3/5/2019		<0.001		<0.001	<0.001	<0.001	
3/6/2019			<0.001				
4/2/2019		<0.001				<0.001	
4/3/2019			<0.001	<0.001	<0.001		
8/20/2019	5.8E-05 (J)						
8/21/2019							<0.001
9/24/2019						<0.001	
9/25/2019		<0.001			<0.001		
9/26/2019			<0.001	<0.001			
10/8/2019	8.4E-05 (J)						
2/11/2020		<0.001	<0.001	<0.001			
2/12/2020					<0.001	<0.001	<0.001
3/17/2020	<0.001						
3/24/2020		<0.001	<0.001	<0.001	<0.001	<0.001	
3/25/2020							<0.001
8/27/2020	<0.001						

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/23/2020		<0.001	<0.001	<0.001			
9/24/2020					<0.001	<0.001	<0.001
2/9/2021			<0.001	<0.001	<0.001	<0.001	
2/10/2021							<0.001
8/19/2021	<0.001						
2/8/2022	<0.001						<0.001
2/9/2022		<0.001	<0.001	<0.001	<0.001	<0.001	

			Fianti	ates Client. South	nem Company Data: Tales Ash Fond 2
	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
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
6/2/2016		<0.001	<0.001	<0.001	
7/26/2016		<0.001	<0.001	<0.001	
8/31/2016					<0.001
9/14/2016		<0.001	<0.001	<0.001	
11/2/2016		<0.001	<0.001		
11/4/2016				<0.001	
11/28/2016					<0.001
1/12/2017			<0.001	<0.001	
1/13/2017		<0.001			
2/22/2017					<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					6E-05 (J)
6/27/2017			<0.001	<0.001	· ·
6/29/2017		<0.001			
7/17/2017					6E-05 (J)
10/12/2017	<0.001				3E 30 (b)
10/16/2017	10.001				7E-05 (J)
11/20/2017	<0.001				72-00 (0)
1/10/2018	<0.001				0.004
2/19/2018	<0.001	.0.004		.0.004	<0.001
3/29/2018		<0.001	<0.001	<0.001	
4/3/2018	<0.001				
6/28/2018	<0.001				
8/6/2018					<0.001
8/7/2018	<0.001				
9/24/2018	<0.001				
2/25/2019					<0.001
3/4/2019		<0.001	<0.001	<0.001	
4/3/2019		<0.001	<0.001	<0.001	
6/12/2019					<0.001
8/19/2019					5.5E-05 (J)

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/21/2019	<0.001				
9/24/2019			<0.001	<0.001	
9/25/2019		<0.001			
10/8/2019					<0.001
2/12/2020	<0.001	<0.001	<0.001	<0.001	
3/17/2020					<0.001
3/24/2020	<0.001		<0.001	<0.001	
3/25/2020		<0.001			
8/26/2020					<0.001
9/22/2020		<0.001	<0.001	<0.001	<0.001
9/24/2020	<0.001				
2/8/2021			<0.001	<0.001	
2/9/2021		<0.001			
2/10/2021	<0.001				
3/2/2021					<0.001
8/20/2021					<0.001
2/8/2022	<0.001				<0.001
2/10/2022			<0.001	<0.001	
2/11/2022		<0.001			

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		120	54				150
6/2/2016	46				36	130	
7/25/2016			48		50		135
7/26/2016	54	94				141	
9/13/2016		105	67				
9/14/2016				152			127
9/15/2016	54					153	
9/19/2016					35		
11/1/2016		44			<25	92	75
11/2/2016	71						
11/4/2016			60	148			
12/15/2016				191			
1/10/2017	45						
1/11/2017		107				159	148
1/16/2017		,	65	180	47		
2/21/2017				.00	<25		
3/1/2017					-20		182
3/2/2017		98	61			117	102
3/3/2017		30	01	156		117	
3/8/2017	178			150			
4/26/2017	52				55	181	92
4/27/2017	32	116	31		33	101	32
4/28/2017		110	31	130			
5/26/2017				223			
6/27/2017		89	42	223			
6/28/2017		69	42	166		169	126
6/30/2017	45			100	42	109	120
10/3/2017	45	119	58	153	42		
		119	36	155	21	141	147
10/4/2017	40				31	141	147
10/5/2017 6/5/2018	40	127					
6/6/2018		127	96				
6/7/2018			90	146		95	
6/8/2018	114			140		95	158
6/11/2018	114				59		100
10/1/2018	50	117	60	155	39	165	138
10/1/2018	30	117	00	155	57	103	130
3/28/2019		87	87		37		
3/29/2019	63	67	67	150			
4/1/2019	03			150	54	149	19 (J)
9/24/2019		104	E4	146	54	149	19 (3)
9/25/2019	64	124	54	146	E1	157	150
	64		25		51	157	159
3/18/2020	57	110	35	140	47	140	440
3/19/2020		116	45	148	47	146	148
9/23/2020		108	15	161	E1	157	155
9/24/2020	E4				51		
9/25/2020	54				22		
3/1/2021	67				23		
3/2/2021	67	00	20	120		107	111
3/3/2021	E4	99	39	138	F0	137	111
8/19/2021	54	105	44	150	50	144	155
8/27/2021				150			155

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		105	57	156		154	145
2/10/2022	56						
2/11/2022					66		

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	220	200	190	210			
6/9/2016					240	210	150
8/1/2016	211	191	191	209			
8/2/2016					226	202	155
9/20/2016	217	213	205	224			
9/21/2016					214	216	138
11/7/2016	301	284	264	291		399	291
11/8/2016					229		
1/18/2017	265 (D)	158 (D)	167 (D)		243 (D)	215 (D)	
1/19/2017				215 (D)			145 (D)
2/21/2017	158	137				198	
2/22/2017				262	310		185
2/23/2017			253				
5/3/2017		269					
5/5/2017					289	347	
5/8/2017	207		174	187			114
6/30/2017			193	209			
7/5/2017					217		136
7/7/2017						236	
7/10/2017	219	183					
10/5/2017					221		139
10/6/2017				183			
10/9/2017			185			204	
10/10/2017	194	179					
6/11/2018							156
6/12/2018				208	234	243	
6/13/2018	228	196	219				
10/2/2018	227	191	227	206			154
10/3/2018					232	237	
4/1/2019			198	221	238		147
4/2/2019	223	224				<25	
9/25/2019	225	190					162
9/26/2019			198	225	241	239	
3/19/2020		194			212	202	
3/20/2020	211		195	182			137
9/24/2020	212	171	186	185	209	226	133
3/2/2021		154					
3/3/2021	205		173	178	184	217	110
8/19/2021		176					
8/20/2021	224		196	169	194	192	110
2/8/2022				159	206	216	120
2/10/2022	207	168	190				

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			120	58			
6/7/2016		28			38	60	
7/27/2016		74	94	35	74		
7/28/2016						81	
8/30/2016	319						
9/16/2016		67		35			
9/19/2016			92		45	68	
11/2/2016					53		
11/3/2016		41	104	48		61	
11/14/2016	280						
1/11/2017		104	133	95			
1/13/2017					46	76	
2/24/2017	162						
3/1/2017			119	79			
3/2/2017		77					
3/6/2017					164	167	
4/26/2017			162	36	34	50	
5/2/2017		142					
5/8/2017	194						
6/28/2017			98	45			
6/29/2017		53			68	94	
7/11/2017	193						
10/3/2017						149	
10/4/2017		61		45	54		
10/5/2017			104				
10/10/2017	175						
10/11/2017							68
11/20/2017							139
1/11/2018							153
2/20/2018							87
4/2/2018	192						
4/3/2018							85
6/5/2018						109	
6/6/2018					79		
6/7/2018			68				
6/11/2018		70		74			
6/28/2018							88
8/7/2018							89
9/19/2018	186						
9/24/2018							82
9/25/2018		86	109	63	73	122	
3/27/2019	170						75
4/2/2019		72				134	
4/3/2019			89	63	57		
9/24/2019						157	
9/25/2019		81			75		
9/26/2019			126	72			
10/8/2019	172						
10/9/2019							119
3/17/2020	165						
3/24/2020		71	91	59	76	117	
3/25/2020				-	-		158

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	141						
9/23/2020		99	103	81			
9/24/2020					69	113	170
3/1/2021	145						
3/3/2021		57	95	37	53		
3/4/2021						110	168
8/19/2021	134						
8/26/2021				31			249
8/27/2021		93	112		67		
9/1/2021						137	
2/8/2022	151						248
2/9/2022		81	103	60	72	131	

			Plant Yat	es Client: Southe	rn Company	Data: Yates Ash Pond 2			
	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)				
6/2/2016		96	160	66					
7/26/2016		92	177	78					
8/31/2016					209				
9/14/2016		102	187	73					
11/2/2016			181						
11/4/2016				75					
11/28/2016					102				
1/12/2017			202	86					
1/13/2017		67							
2/22/2017					164				
3/6/2017		159							
3/7/2017			257	108					
5/1/2017			165	100					
5/2/2017		107	103	103					
5/8/2017				103	145				
6/27/2017			100	70	140				
			189	73					
6/29/2017		79			105				
7/17/2017			.=-		185				
10/3/2017			170	89					
10/5/2017		95							
10/12/2017	74								
10/16/2017					218				
11/20/2017	179								
1/10/2018	140								
2/19/2018	119				173				
4/3/2018	106								
6/6/2018			151						
6/7/2018		90		142					
6/28/2018	112								
8/6/2018					158				
8/7/2018	103								
9/24/2018	107								
9/26/2018		116	144	86					
2/25/2019					92				
3/26/2019	90								
4/3/2019		111	142	83					
6/12/2019					226				
9/24/2019			129	79					
9/25/2019		117							
10/8/2019					276				
10/9/2019	98								
3/17/2020					185				
3/24/2020	84		139	68	100				
3/25/2020	04	146	100	00					
9/22/2020			104	75	281				
	77	0.0	104	,,	201				
9/24/2020	"		E2	67	206				
3/2/2021			52	67	296				
3/3/2021		80							
3/4/2021	57								
8/20/2021					254				
8/26/2021		93	123	86					
9/3/2021	88								

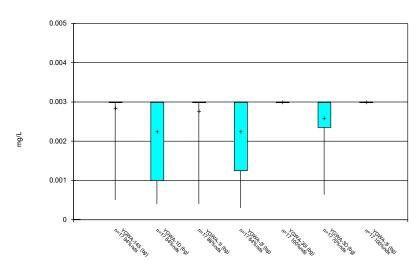
Page 2

Time Series

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2022	93				283
2/10/2022			127	77	
2/11/2022		102			

FIGURE B.

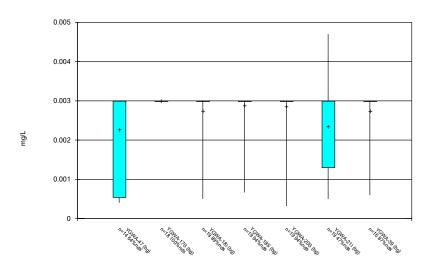
Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/27/2022 1:24 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

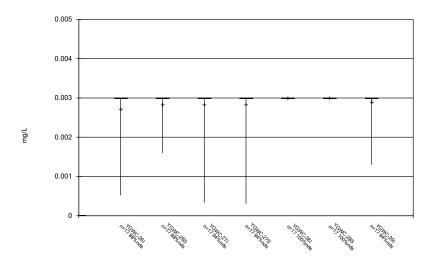
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/27/2022 1:24 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

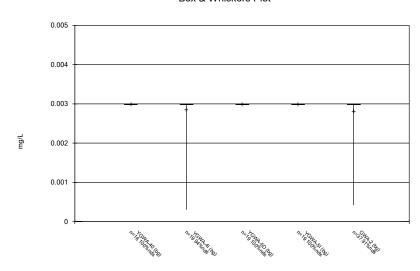
Box & Whiskers Plot



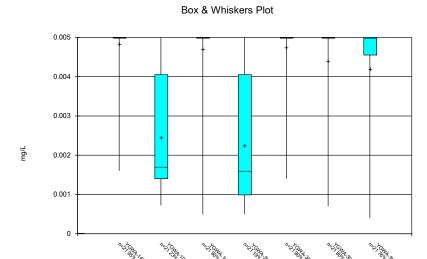
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

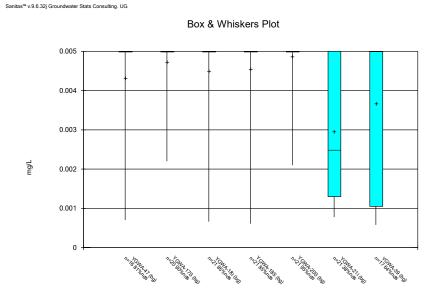
Box & Whiskers Plot



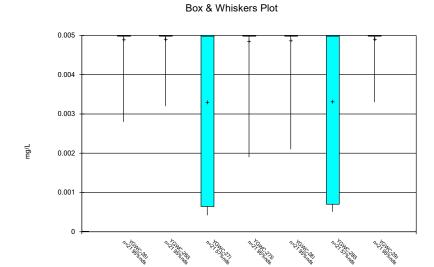
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Arsenic Analysis Run 4/27/2022 1:24 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

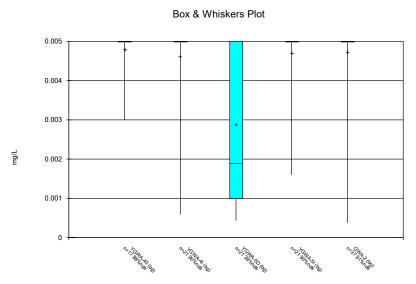


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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



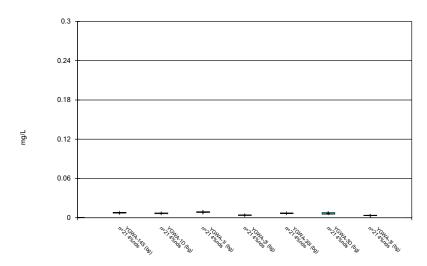
Constituent: Arsenic Analysis Run 4/27/2022 1:24 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2





Constituent: Arsenic Analysis Run 4/27/2022 1:24 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

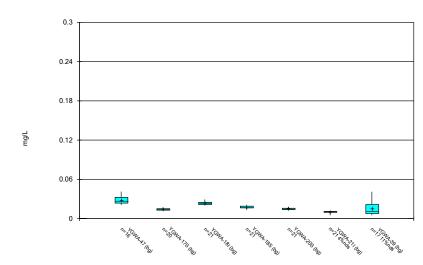
Box & Whiskers Plot



Constituent: Barium Analysis Run 4/27/2022 1:24 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

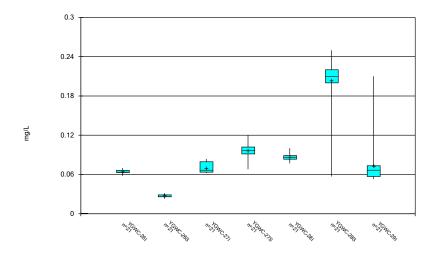
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Barium Analysis Run 4/27/2022 1:24 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

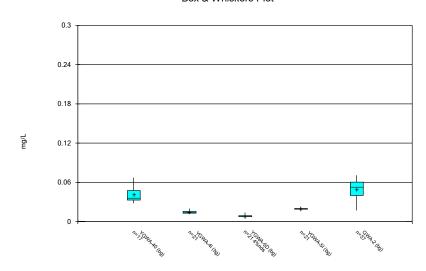
Box & Whiskers Plot



Constituent: Barium Analysis Run 4/27/2022 1:24 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

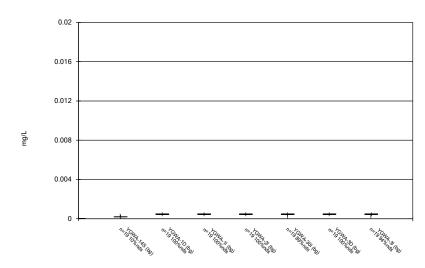
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Barium Analysis Run 4/27/2022 1:24 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

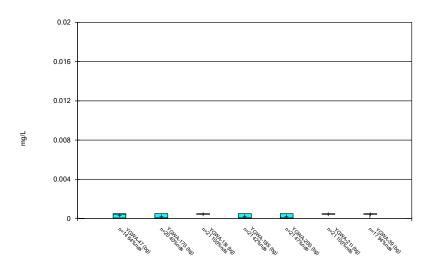




Constituent: Beryllium Analysis Run 4/27/2022 1:24 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

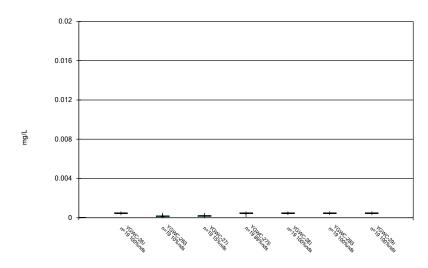
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/27/2022 1:24 PM
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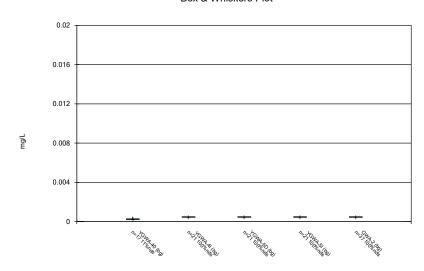
Box & Whiskers Plot



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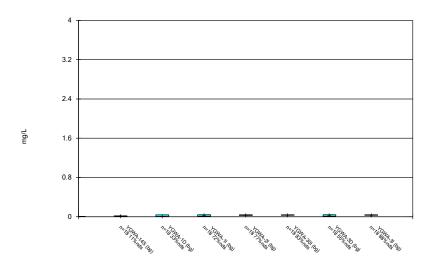
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/27/2022 1:24 PM
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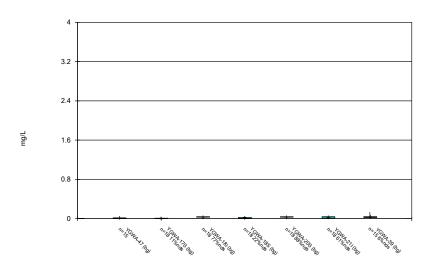
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/27/2022 1:24 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

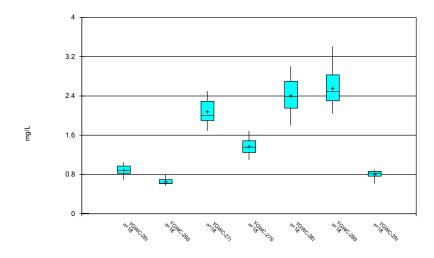
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Box & Whiskers Plot



Constituent: Boron Analysis Run 4/27/2022 1:24 PM
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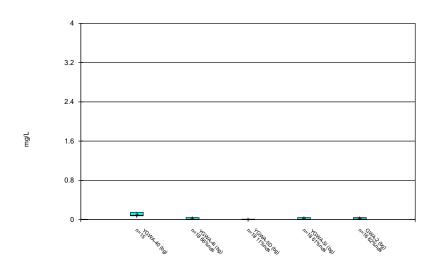
Box & Whiskers Plot



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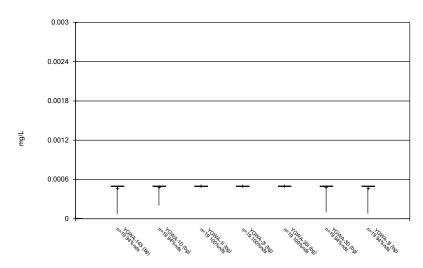
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Box & Whiskers Plot



Constituent: Boron Analysis Run 4/27/2022 1:24 PM
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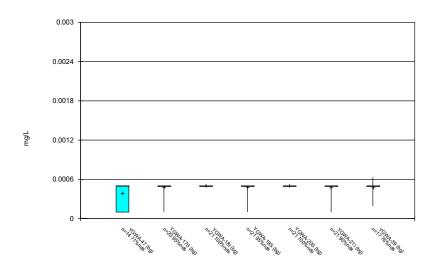
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 4/27/2022 1:24 PM
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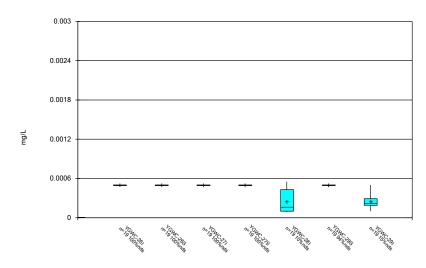
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Box & Whiskers Plot



Constituent: Cadmium Analysis Run 4/27/2022 1:24 PM
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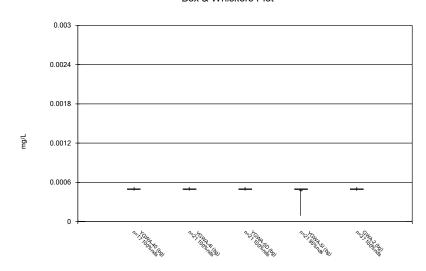
Box & Whiskers Plot



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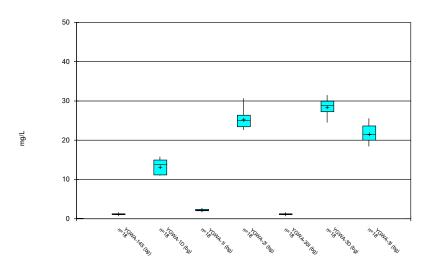
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Box & Whiskers Plot



Constituent: Cadmium Analysis Run 4/27/2022 1:24 PM
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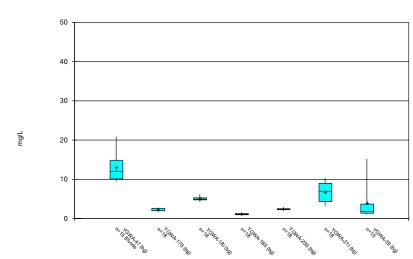
Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/27/2022 1:24 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

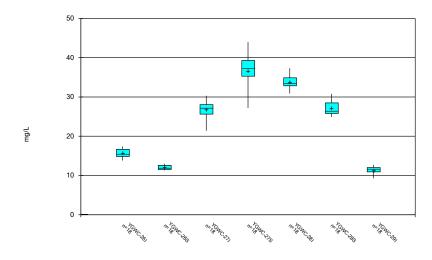
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/27/2022 1:24 PM
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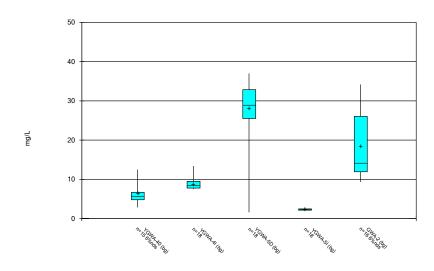
Box & Whiskers Plot



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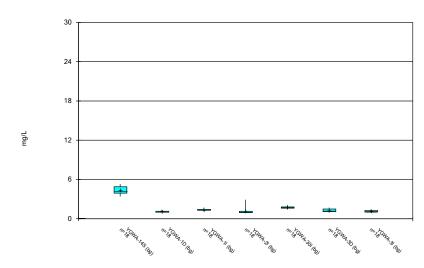
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Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/27/2022 1:24 PM
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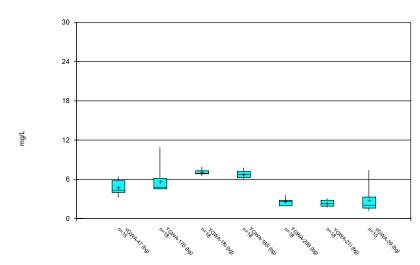
Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/27/2022 1:24 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

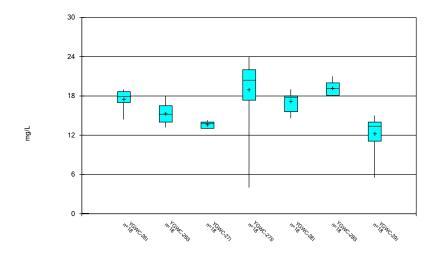
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Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/27/2022 1:25 PM
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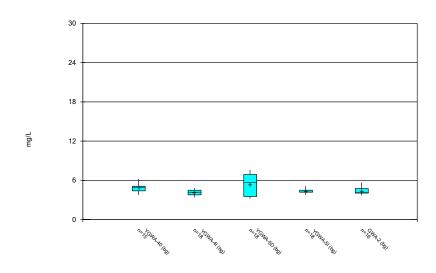
Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/27/2022 1:24 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

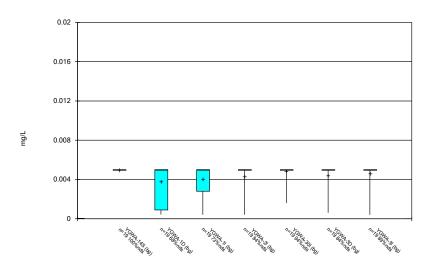
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/27/2022 1:25 PM
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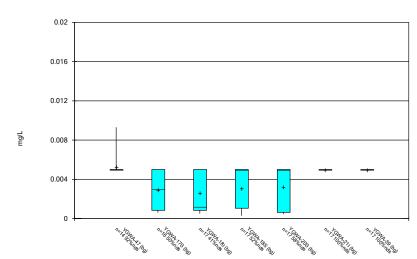
Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

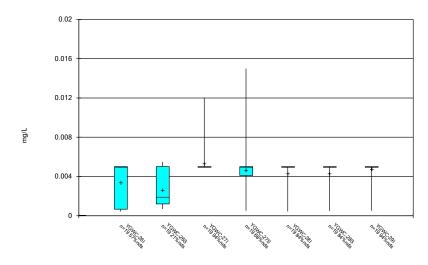
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Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/27/2022 1:25 PM
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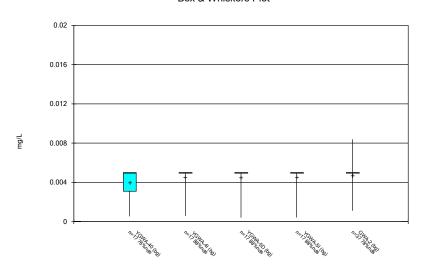
Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/27/2022 1:25 PM
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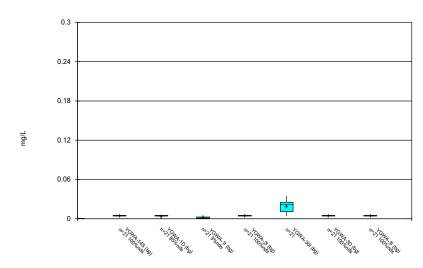
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Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/27/2022 1:25 PM
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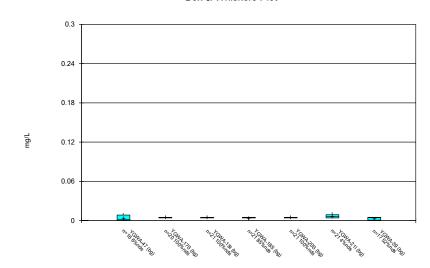
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

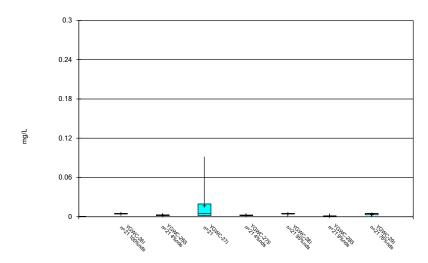
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Box & Whiskers Plot



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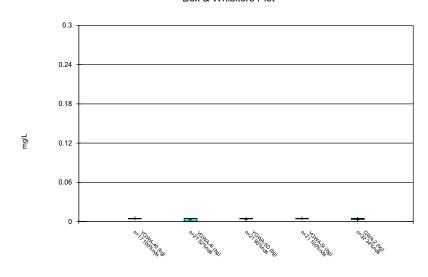
Box & Whiskers Plot



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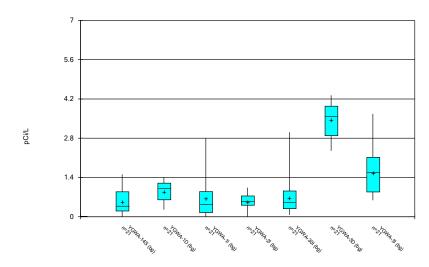
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Box & Whiskers Plot



Constituent: Cobalt Analysis Run 4/27/2022 1:25 PM
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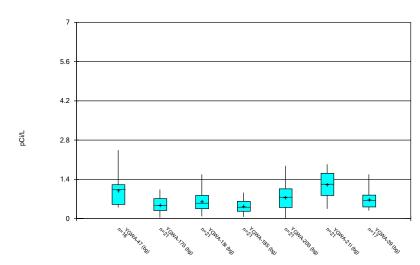
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

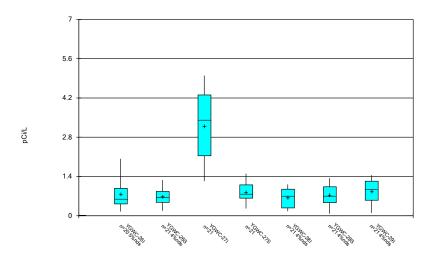
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Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/27/2022 1:25 PM
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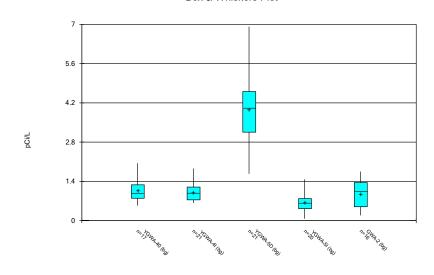
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/27/2022 1:25 PM
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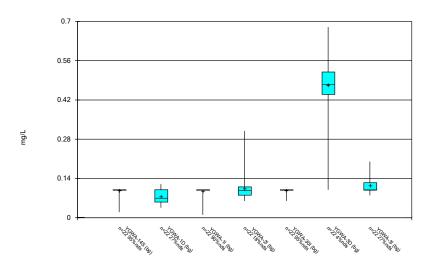
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Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/27/2022 1:25 PM
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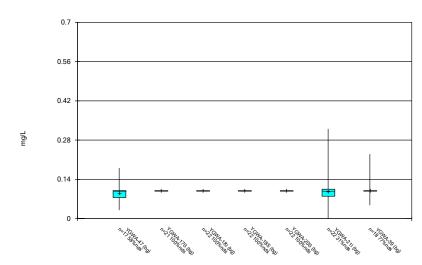
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/27/2022 1:25 PM
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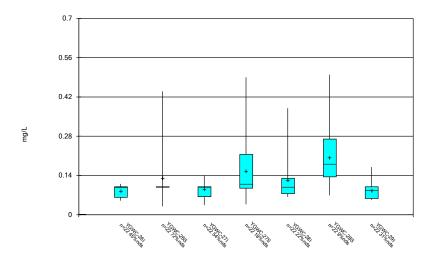
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Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/27/2022 1:25 PM
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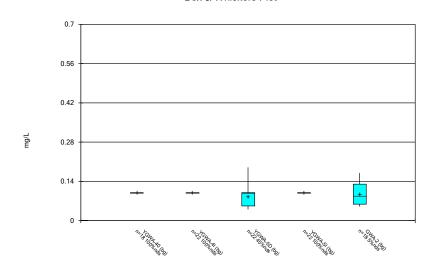
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/27/2022 1:25 PM
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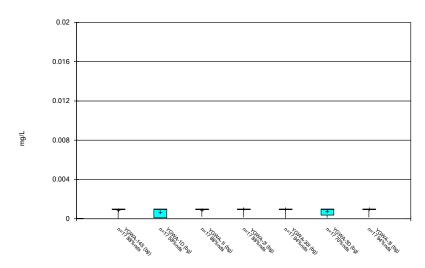
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/27/2022 1:25 PM
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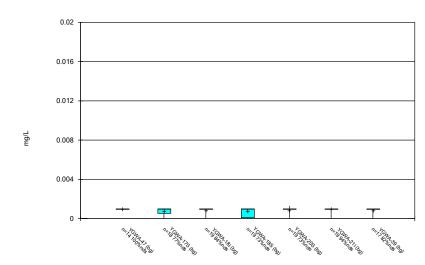




Constituent: Lead Analysis Run 4/27/2022 1:25 PM
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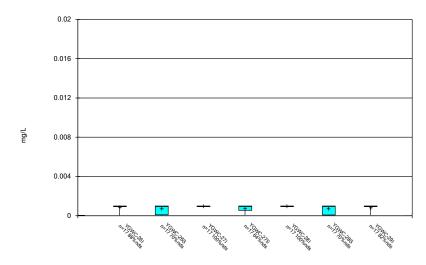
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Box & Whiskers Plot



Constituent: Lead Analysis Run 4/27/2022 1:25 PM
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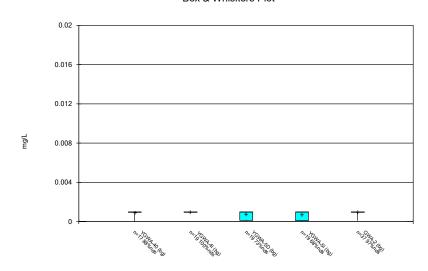
Box & Whiskers Plot



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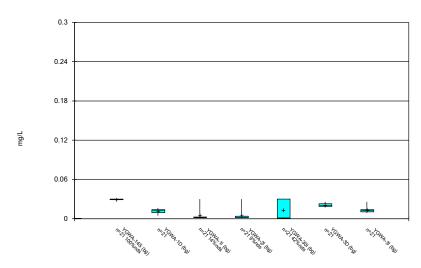
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Box & Whiskers Plot



Constituent: Lead Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

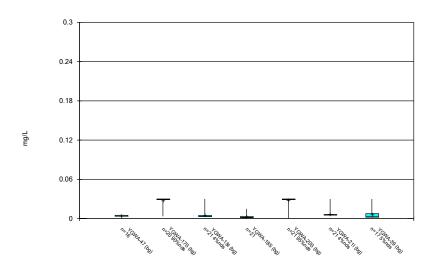
Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

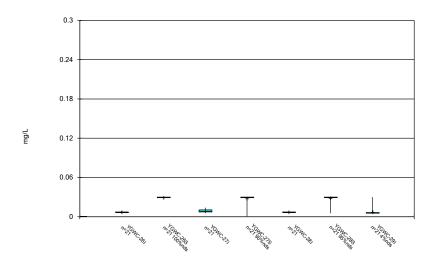
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Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

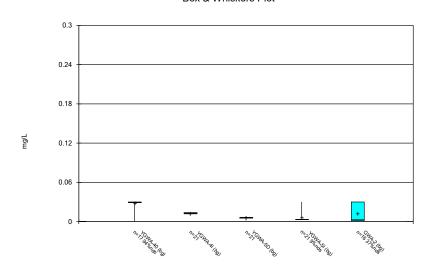
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

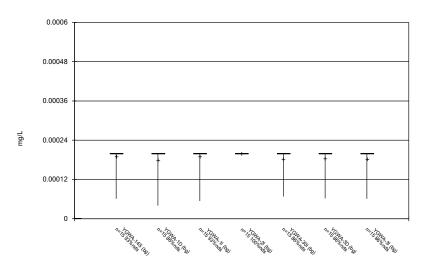
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Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/27/2022 1:25 PM
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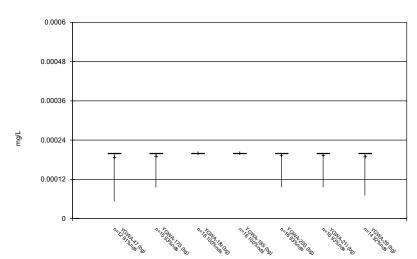
Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

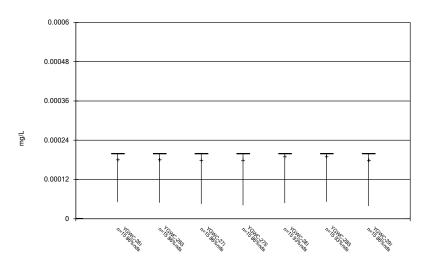
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/27/2022 1:25 PM
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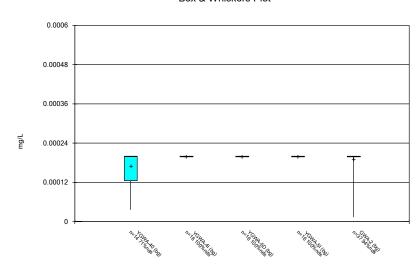
Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/27/2022 1:25 PM
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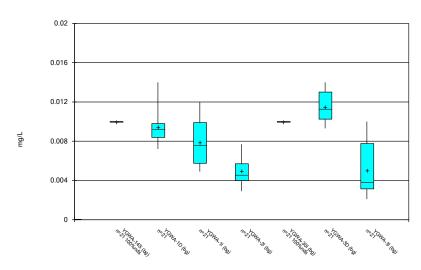
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Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

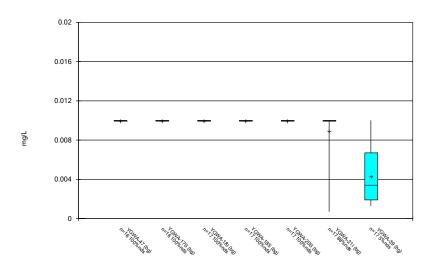
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

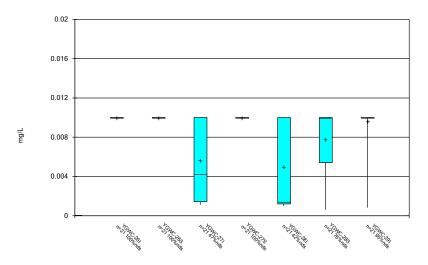
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Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 4/27/2022 1:25 PM
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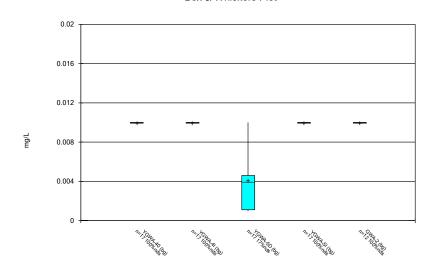
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

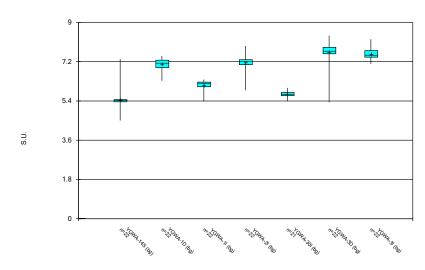
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Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 4/27/2022 1:25 PM
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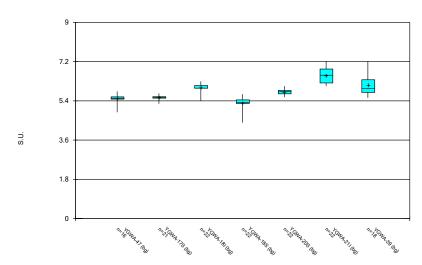
Box & Whiskers Plot



Constituent: pH Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

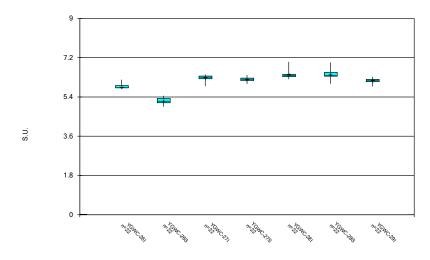
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: pH Analysis Run 4/27/2022 1:25 PM
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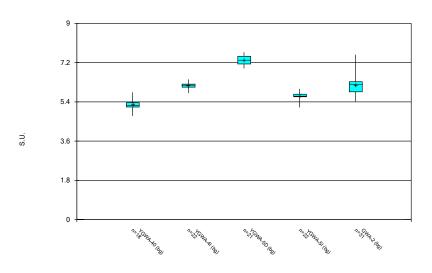
Box & Whiskers Plot



Constituent: pH Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

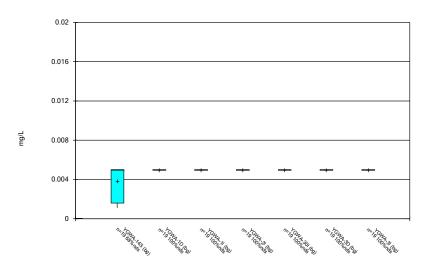
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: pH Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

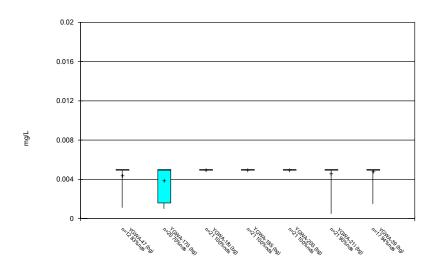
Box & Whiskers Plot



Constituent: Selenium Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

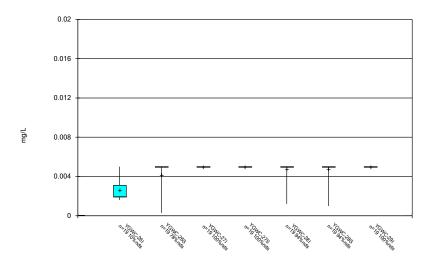
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Box & Whiskers Plot



Constituent: Selenium Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

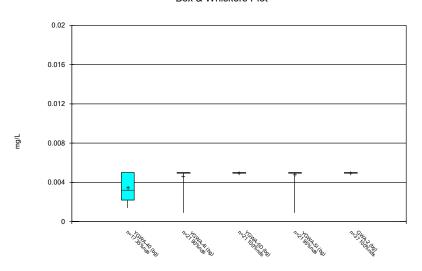
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

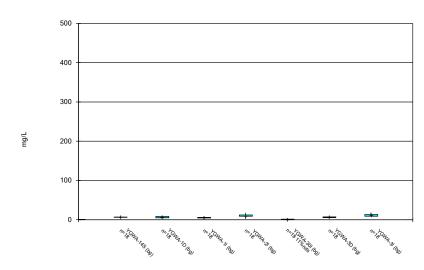
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Box & Whiskers Plot



Constituent: Selenium Analysis Run 4/27/2022 1:25 PM
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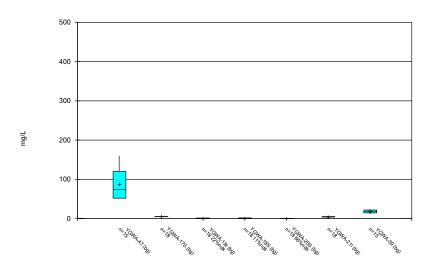
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 4/27/2022 1:25 PM
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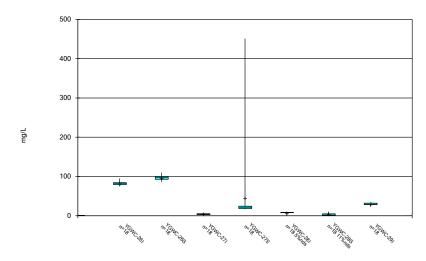
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Box & Whiskers Plot



Constituent: Sulfate Analysis Run 4/27/2022 1:25 PM
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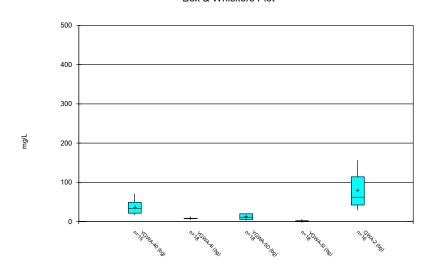
Box & Whiskers Plot



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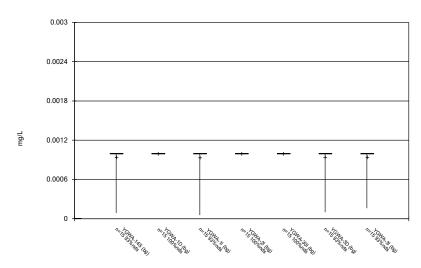
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Box & Whiskers Plot



Constituent: Sulfate Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

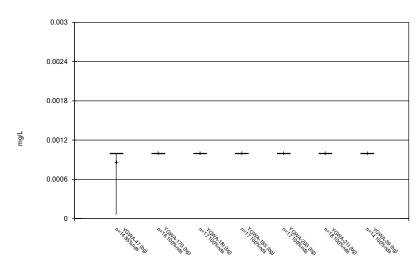
Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

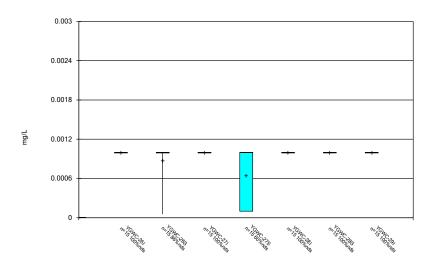
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

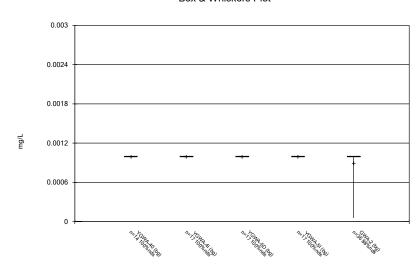
Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

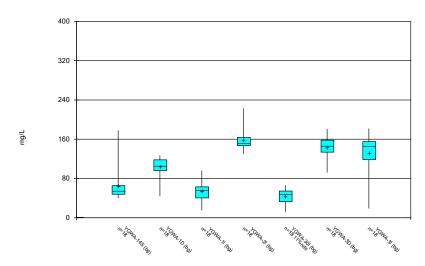
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

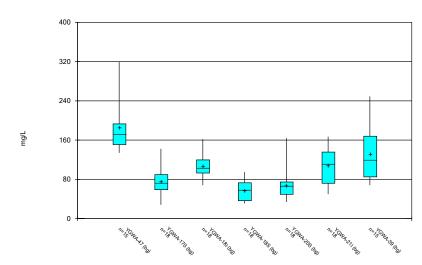
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

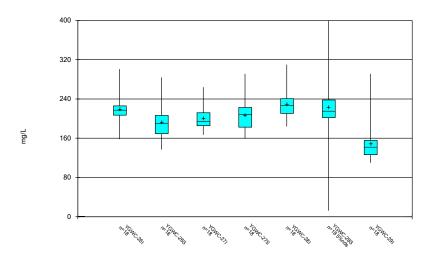
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

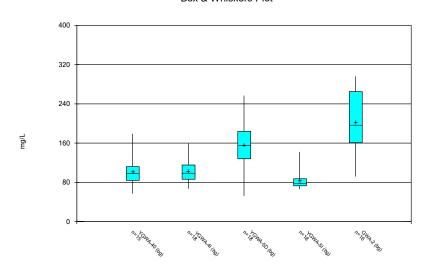
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE C.

Outlier Summary

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/27/2022, 1:28 PM

GWA-2 Cobalt (mg/L)
YGWC-261 Combined Radium 226 + 228 (pCi/L)
YGWA-47 pH (S.U.)
6.68 (o)
6.3 (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)

6/8/2016

4/2/2018

FIGURE D.

Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 3/21/2022, 12:48 PM

Constituent	Well	Upper Lim	. Lower Lin	n.Date	Observ.	Sig. Bg N Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	m <u>Alpha</u>	Method
Boron (mg/L)	YGWC-26I	0.16	n/a	2/10/2022	0.79	Yes 331 n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	2/10/2022	0.79	Yes 331 n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	2/10/2022	2.5	Yes 331 n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	2/8/2022	1.1	Yes 331 n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	2/8/2022	2.4	Yes 331 n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	2/8/2022	2.4	Yes 331 n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29I	0.16	n/a	2/8/2022	0.71	Yes 331 n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	10.9	n/a	2/10/2022	15.4	Yes 331 n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	10.9	n/a	2/10/2022	14	Yes 331 n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	10.9	n/a	2/10/2022	13.1	Yes 331 n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	10.9	n/a	2/8/2022	13	Yes 331 n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	10.9	n/a	2/8/2022	15.2	Yes 331 n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	10.9	n/a	2/8/2022	18.3	Yes 331 n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

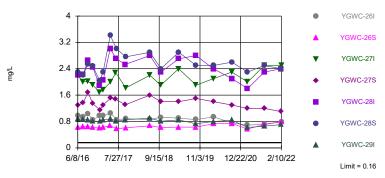
Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 3/21/2022, 12:48 PM

Constituent	Well	Upper Lin	n. Lower Li	m.Date	Observ.	Sig. Bg N Bg Mean	Std. Dev.	%NDs ND Adj.	Transforr	n <u>Alpha</u>	Method
Boron (mg/L)	YGWC-26I	0.16	n/a	2/10/2022	0.79	Yes 331 n/a	n/a	48.04 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	2/10/2022	0.79	Yes 331 n/a	n/a	48.04 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	2/10/2022	2.5	Yes 331 n/a	n/a	48.04 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	2/8/2022	1.1	Yes 331 n/a	n/a	48.04 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	2/8/2022	2.4	Yes 331 n/a	n/a	48.04 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	2/8/2022	2.4	Yes 331 n/a	n/a	48.04 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29I	0.16	n/a	2/8/2022	0.71	Yes 331 n/a	n/a	48.04 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26I	37	n/a	2/10/2022	16.4	No 331 n/a	n/a	0.9063 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	37	n/a	2/10/2022	11.6	No 331 n/a	n/a	0.9063 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	37	n/a	2/10/2022	27.4	No 331 n/a	n/a	0.9063 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	2/8/2022	27.2	No 331 n/a	n/a	0.9063 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	37	n/a	2/8/2022	31.8	No 331 n/a	n/a	0.9063 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	37	n/a	2/8/2022	26.7	No 331 n/a	n/a	0.9063 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29I	37	n/a	2/8/2022	9.3	No 331 n/a	n/a	0.9063 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	10.9	n/a	2/10/2022	15.4	Yes 331 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	10.9	n/a	2/10/2022	14	Yes 331 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	10.9	n/a	2/10/2022	13.1	Yes 331 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	10.9	n/a	2/8/2022	13	Yes 331 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	10.9	n/a	2/8/2022	15.2	Yes 331 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	10.9	n/a	2/8/2022	18.3	Yes 331 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-29I	10.9	n/a	2/8/2022	5.5	No 331 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-26I	0.68	n/a	2/10/2022	0.1ND	No 400 n/a	n/a	67.5 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	0.68	n/a	2/10/2022	0.1ND	No 400 n/a	n/a	67.5 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	0.68	n/a	2/10/2022	0.059J	No 400 n/a	n/a	67.5 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	0.68	n/a	2/8/2022	0.087J	No 400 n/a	n/a	67.5 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	0.68	n/a	2/8/2022	0.063J	No 400 n/a	n/a	67.5 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	0.68	n/a	2/8/2022	0.14	No 400 n/a	n/a	67.5 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29I	0.68	n/a	2/8/2022	0.053J	No 400 n/a	n/a	67.5 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-26I	8.39	4.4	2/10/2022	5.84	No 410 n/a	n/a	0 n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-26S	8.39	4.4	2/10/2022	5.31	No 410 n/a	n/a	0 n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27I	8.39	4.4	2/10/2022	6.23	No 410 n/a	n/a	0 n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27S	8.39	4.4	2/8/2022	6.22	No 410 n/a	n/a	0 n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28I	8.39	4.4	2/8/2022	6.34	No 410 n/a	n/a	0 n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28S	8.39	4.4	2/8/2022	6.3	No 410 n/a	n/a	0 n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-29I	8.39	4.4	2/8/2022	5.88	No 410 n/a	n/a	0 n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26I	160	n/a	2/10/2022	81.8	No 331 n/a	n/a	6.042 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26S	160	n/a	2/10/2022	86.5	No 331 n/a	n/a	6.042 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27I	160	n/a	2/10/2022	2.4	No 331 n/a	n/a	6.042 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27S	160	n/a	2/8/2022	16.3	No 331 n/a	n/a	6.042 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28I	160	n/a	2/8/2022	8.1	No 331 n/a	n/a	6.042 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28S	160	n/a	2/8/2022	10.5	No 331 n/a	n/a	6.042 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-29I	160	n/a	2/8/2022	22.9	No 331 n/a	n/a	6.042 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26I	221.1	n/a	2/10/2022	207	No 331 10.06	2.585	0.6042 None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26S	221.1	n/a	2/10/2022		No 331 10.06	2.585	0.6042 None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27I	221.1	n/a	2/10/2022		No 331 10.06	2.585	0.6042 None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27S	221.1	n/a	2/8/2022	159	No 331 10.06	2.585	0.6042 None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28I	221.1	n/a	2/8/2022	206	No 331 10.06	2.585	0.6042 None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	221.1	n/a	2/8/2022	216	No 331 10.06	2.585	0.6042 None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-29I	221.1	n/a	2/8/2022	120	No 331 10.06	2.585	0.6042 None	sqrt(x)	0.001075	Param Inter 1 of 2

Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I

Prediction Limit

Interwell Non-parametric



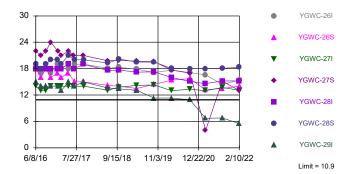
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 331 background values. 48.04% NDs. Annual perconstituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 3/21/2022 12:47 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S

Prediction Limit Interwell Non-parametric

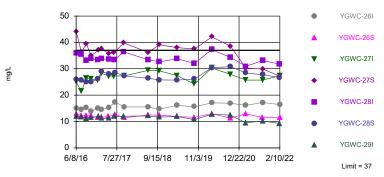


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 331 background values. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit Interwell Non-parametric

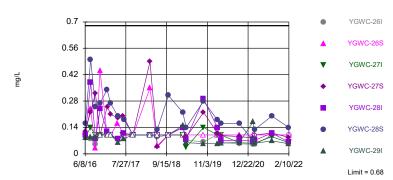


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 331 background values. 0.9063% NDs. Annual perconstituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 3/21/2022 12:47 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

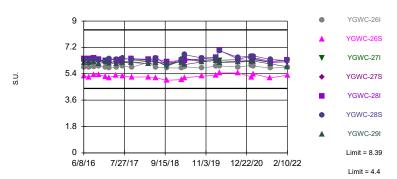
Within Limit Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 400 background values. 67.5% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Within Limits Prediction Limit
Interwell Non-parametric



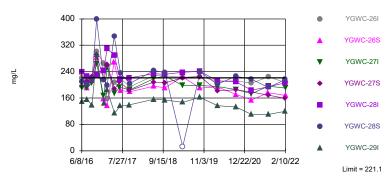
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 410 background values. Annual perconstituent alpha = 0.001377. Individual comparison alpha = 0.00009836 (1 of 2). Comparing 7 points to limit.

Constituent: pH Analysis Run 3/21/2022 12:47 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG Hollow symbols indicate censored values. Within Limit

Prediction Limit
Interwell Parametric

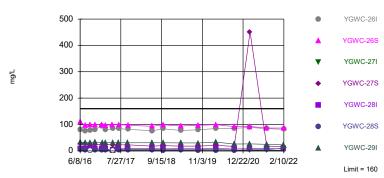


Background Data Summary (based on square root transformation): Mean=10.06, Std. Dev.=2.585, n=331, 0.6042% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 13.86, critical = 14.07. Kappa = 1.859 (c=7, w=7, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.001075. Comparing 7 points to limit.

Constituent: Total Dissolved Solids Analysis Run 3/21/2022 12:47 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

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 331 background values. 6.042% NDs. Annual perconstituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
6/1/2016	<0.04	<0.04	<0.04						
6/2/2016				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	<0.04	<0.04							<0.04
7/26/2016			0.0055 (J)	0.0177 (J)	0.0047 (J)	0.0052 (J)	0.0097 (J)	<0.04	
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016		<0.04	<0.04						
9/14/2016	<0.04				<0.04	0.0071 (J)		0.01 (J)	
9/15/2016				0.0214 (J)			0.0102 (J)		
9/16/2016									
9/19/2016									<0.04
9/20/2016									
9/21/2016									
11/1/2016	<0.04		0.0086 (J)				<0.04		<0.04
11/2/2016			. ,	<0.04	<0.04	<0.04			
11/3/2016									
11/4/2016		<0.04						<0.04	
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				0.0198 (J)					
1/11/2017	<0.04		0.0074 (J)	0.0100 (0)			<0.04		
1/12/2017	10.04		0.0074 (0)			0.0076 (J)	-0.04	<0.04	
1/13/2017					<0.04	0.0070 (0)		10.04	
1/16/2017		<0.04			-0.04				<0.04
1/18/2017		-0.04							-0.04
1/19/2017									
2/21/2017									<0.04
2/22/2017									-0.04
2/23/2017									
2/24/2017									
3/1/2017	<0.04								
3/2/2017	<0.04	<0.04	0.009 (1)				0.009471		
		<0.04	0.008 (J)				0.0084 (J)		
3/3/2017 3/6/2017					-0.04				
					<0.04	0.0000 (1)		-0.04	
3/7/2017				0.0180 / 15		0.0089 (J)		<0.04	
3/8/2017	-0.04			0.0189 (J)			-0.04		10.04
4/26/2017	<0.04	-0.04	0.0066 (!)	0.0161 (J)			<0.04		<0.04
4/27/2017		<0.04	0.0066 (J)						
4/28/2017					-0.04	0.0001 ("			
5/1/2017					<0.04	0.0061 (J)		-0.04	
5/2/2017								<0.04	

		YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
5/3/2017	7									
5/5/2017	7									
5/8/2017	7									
5/26/201										
6/27/201			0.006 (J)	0.0087 (J)			0.0079 (J)		<0.04	
6/28/201		<0.04	0.000 (3)	0.0007 (3)			0.0073 (3)	<0.04	10.04	
		<0.04				.0.04		<0.04		
6/29/201						<0.04				
6/30/201					0.0173 (J)					<0.04
7/5/2017	7									
7/7/2017	7									
7/10/201	17									
7/11/201	17									
7/17/201	17									
10/3/201	17		0.0071 (J)	0.0072 (J)			0.0094 (J)		<0.04	
10/4/201		<0.04						<0.04		<0.04
10/5/201					0.0173 (J)	<0.04				
10/6/201					0.0170 (0)	0.0 .				
10/9/201										
10/10/20										
10/11/20										
10/12/20	017									
10/16/20)17									
11/20/20)17									
1/10/201	18									
1/11/201	18									
2/19/201	18									
2/20/201										
4/2/2018										
4/3/2018										
6/5/2018				0.0052 (1)						
			<0.04	0.0052 (J)			0.0008 (1)			
6/6/2018			<0.04			0.0045 (1)	0.0098 (J)	0.004 (1)	.0.04	
6/7/2018						0.0045 (J)		0.004 (J)	<0.04	
6/8/2018		<0.04			0.013 (J)					
6/11/201										0.014 (J)
6/12/201	18									
6/13/201	18									
6/28/201	18									
8/6/2018	3									
8/7/2018	3									
9/19/201	18									
9/24/201	18									
9/25/201										
9/26/201						0.005 (J)	0.01 (J)		0.0057 (J)	
10/1/201		<0.04	0.0049 (J)	0.021 (J)	0.015 (J)	(3)	(-/	<0.04	» (v)	
10/1/201		J.0-1	3.0070 (0)	3.021(0)	0.010(0)			-0.0-1		<0.04
										-U.U 1
10/3/201										
2/25/201										
3/26/201										
3/27/201										
3/28/201	19		<0.04	0.005 (J)						
3/29/201	19				0.014 (J)					
4/1/2019)	<0.04						<0.04		<0.04

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
4/2/2019									
4/3/2019					0.0055 (J)	0.0076 (J)		0.0044 (J)	
6/12/2019									
9/24/2019		0.0055 (J)	0.0064 (J)			0.01 (J)		0.0049 (J)	
9/25/2019	<0.04			0.018 (J)	<0.04		0.0054 (J)		<0.04
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		0.0087 (J)		0.02 (J)					
3/19/2020	0.0053 (J)		0.0085 (J)				0.0073 (J)		0.0052 (J)
3/20/2020									
3/24/2020						0.011 (J)		0.0068 (J)	
3/25/2020					0.011 (J)				
9/22/2020					<0.04	0.0079 (J)		0.0053 (J)	
9/23/2020	0.0073 (J)	<0.04	<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				0.017 (J)		0.0068 (J)		0.011 (J)	
3/3/2021	<0.04	<0.04	<0.04		0.0056 (J)		<0.04		
3/4/2021									
8/19/2021		<0.04	<0.04	0.018 (J)			<0.04		<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				0.02 (J)		0.011 (J)		<0.04	
2/11/2022					<0.04				<0.04

		YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
6/1/	/2016									
6/2/	/2016									
6/6/	/2016	<0.04	<0.04							
	/2016			<0.04	<0.04	<0.04				
	/2016						1.3	0.97	0.62	2.2
	/2016						1.0	0.57	0.02	L.L
	5/2016									
	6/2016									
	7/2016	0.0059 (J)	<0.04	0.008 (J)		<0.04				
	8/2016				<0.04					
	/2016						1.36	0.932	0.643	2
	/2016									
8/30	0/2016									
8/3	1/2016									
9/13	3/2016									
9/14	4/2016									
9/1	5/2016									
9/10	6/2016	0.0079 (J)		0.0086 (J)						
9/19	9/2016		<0.04		<0.04	<0.04				
9/20	0/2016						1.69	1.04	0.644	2.02
9/2	1/2016									
11/	1/2016									
11/2	2/2016					<0.04				
11/	3/2016	0.0082 (J)	<0.04	0.0077 (J)	<0.04					
11/4	4/2016									
	7/2016						1.35	0.852	0.621	1.91
	8/2016									
	14/2016									
	28/2016									
	15/2016									
	0/2017									
	1/2017	0.0096 (J)	<0.04	0.0092 (J)						
	2/2017	0.0030 (3)	10.04	0.0032 (0)						
	3/2017				<0.04	<0.04				
	6/2017				<0.04	<0.04				
								0.070	0.007	1.00
	8/2017						4.45	0.972	0.607	1.69
	9/2017						1.15	0.070	0.004	
	1/2017						4.0	0.972	0.624	
	2/2017						1.3			
	3/2017									1.76
	4/2017	.0.04	.0.04							
	/2017	<0.04	<0.04							
	/2017			0.0095 (J)						
	/2017									
	/2017				<0.04	<0.04				
	/2017									
	/2017									
	6/2017	0.0091 (J)	<0.04		<0.04	<0.04				
	7/2017									
	8/2017									
	/2017									
5/2/	/2017			<0.04						

F/0/0017	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
5/3/2017								0.676	
5/5/2017									
5/8/2017						1.51	1.05		2
5/26/2017									
6/27/2017									
6/28/2017	0.0079 (J)	<0.04							
6/29/2017			0.0074 (J)	<0.04	<0.04				
6/30/2017						1.47			2.28
7/5/2017						1.77			2.20
7/7/2017									
7/10/2017							0.855	0.58	
7/11/2017									
7/17/2017									
10/3/2017				<0.04					
10/4/2017	0.009 (J)		0.0077 (J)		<0.04				
10/5/2017		<0.04							
10/6/2017						1.31			
10/9/2017									1.82
10/10/2017							0.887	0.612	
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
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)						
6/12/2018	, ,		. ,			1.6			
6/13/2018							0.86	0.67	2.2
6/28/2018							0.00	0.07	
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	0.007 (J)	0.0046 (J)	0.0096 (J)	0.0054 (J)	<0.04				
9/26/2018									
10/1/2018									
10/2/2018						1.4	0.93	0.62	1.9
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019						1.4			2.4
20.10									=-:

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
4/2/2019	, 5,		0.0066 (J)	0.011 (J)	, ,,		0.9	0.63	
4/3/2019	0.0053 (J)	<0.04			<0.04				
6/12/2019									
9/24/2019				0.018 (J)					
9/25/2019			0.0081 (J)		<0.04		0.86	0.63	
9/26/2019	0.0072 (J)	0.0062 (J)				1.5			1.9
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020								0.73	
3/20/2020						1.4	0.94		2.1
3/24/2020	0.01 (J)	0.0054 (J)	0.0092 (J)	0.016 (J)	<0.04				
3/25/2020									
9/22/2020									
9/23/2020	0.006 (J)	0.021 (J)	0.0066 (J)						
9/24/2020				0.013 (J)	0.0094 (J)	1.3	0.76	0.74	2.3
9/25/2020									
3/1/2021									
3/2/2021								0.57	
3/3/2021	0.0094 (J)	<0.04	0.01 (J)		<0.04	1.2	0.69		2
3/4/2021				0.0079 (J)					
8/19/2021								0.71	
8/20/2021						1.2	0.72		2.5
8/26/2021	<0.04								
8/27/2021		<0.04	0.011 (J)		<0.04				
9/1/2021				<0.04					
9/3/2021									
2/8/2022						1.1			
2/9/2022	<0.04	<0.04	0.0098 (J)	<0.04	<0.04				
2/10/2022							0.79	0.79	2.5
2/11/2022									

		YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	
6/1/2	2016	1GWC-203	1 GWC-291	1GWC-261	1GWA-47 (bg)	GVVA-2 (bg)	TGWA-21 (bg)	1 GVVA-59 (bg)	1 GWA-40 (bg)	
6/2/2										
6/6/2										
6/7/2										
6/8/2										
6/9/2		2.3	0.88	2.2						
7/25/		2.3	0.00	2.2						
	/2016									
	/2016									
	/2016									
8/1/2		0.01	0.070	2.22						
8/2/2		2.21	0.872	2.22	0.0100 (1)					
	/2016				0.0166 (J)	0.0045 (1)				
8/31/						0.0315 (J)				
	/2016									
	/2016						<0.04			
	/2016									
	/2016									
	/2016									
	/2016									
9/21/		2.54	0.853	2.65						
	/2016									
	/2016									
11/3/										
11/4/							<0.04			
11/7/		2.49	0.815							
11/8/				2.44						
	4/2016				0.0166 (J)					
	8/2016					0.0095 (J)				
	5/2016						0.0107 (J)			
	/2017									
1/11/										
	/2017									
	/2017									
	/2017						<0.04			
	/2017	2.04		1.88						
	/2017		0.803							
	/2017	2.29								
	/2017		0.855	2.05		<0.04				
	/2017									
	/2017				0.0145 (J)					
3/1/2										
3/2/2										
3/3/2							<0.04			
3/6/2										
3/7/2										
3/8/2										
	/2017									
	/2017									
	/2017						<0.04			
5/1/2										
5/2/2	2017									

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	3.41		3.01					
5/8/2017		0.884		0.0141 (J)	0.0084 (J)			
5/26/2017				. ,	. ,	<0.04		
6/27/2017								
6/28/2017						<0.04		
6/29/2017								
6/30/2017								
7/5/2017		0.811	2.7					
7/7/2017	3.01	0.011	2.7					
7/10/2017	3.01							
				0.0121 / 1)				
7/11/2017				0.0131 (J)	0.0002 (1)			
7/17/2017					0.0092 (J)	-0.04		
10/3/2017						<0.04		
10/4/2017		0.054	0.50					
10/5/2017		0.851	2.53					
10/6/2017								
10/9/2017	2.76							
10/10/2017				0.0124 (J)				
10/11/2017							0.0135 (J)	
10/12/2017								0.0401
10/16/2017					<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							<0.04	
4/2/2018				0.013 (J)				
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		0.9						
6/12/2018	2.9		2.8					
6/13/2018								
6/28/2018							0.053	0.16
8/6/2018					<0.04			
8/7/2018							0.024 (J)	0.12
9/19/2018				0.012 (J)				
9/24/2018							0.028 (J)	0.099
9/25/2018								
9/26/2018								
10/1/2018						<0.04		
10/2/2018		0.81						
10/3/2018	2.4		2.3					
2/25/2019					<0.04			
3/26/2019								0.096
3/27/2019				0.013 (J)			0.017 (J)	
3/28/2019								
3/29/2019						0.0065 (J)		
4/1/2019		0.85	2.7			\-'\		
-								

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019	2.9							
4/3/2019								
6/12/2019					<0.04	0.0070 (1)		
9/24/2019		0.70				0.0076 (J)		
9/25/2019	2.5	0.73	2.0					
9/26/2019	2.5		2.8	0.010 (1)	10.04			
10/8/2019				0.012 (J)	<0.04		0.017 (1)	0.070
10/9/2019				0.022 (1)	0.0051 / 1)		0.017 (J)	0.079
3/17/2020 3/18/2020				0.023 (J)	0.0051 (J)			
3/19/2020	2.5		2.4			0.0073 (J)		
3/20/2020	2.5	0.8	2.4			0.0073 (3)		
3/24/2020		0.0						0.088 (J)
3/25/2020							0.043 (J)	0.000 (0)
9/22/2020				0.0076 (J)	0.0079 (J)		0.040 (0)	
9/23/2020				0.0070 (0)	0.0070 (0)	<0.04		
9/24/2020	2.6	0.84	2.1			0.01	0.037 (J)	0.087 (J)
9/25/2020								(-)
3/1/2021				0.013 (J)				
3/2/2021				(2)	<0.04			
3/3/2021	2.3	0.62	1.8			<0.04		
3/4/2021							0.033 (J)	0.078
8/19/2021				0.011 (J)			, ,	
8/20/2021	2.5	0.66	2.3		<0.04			
8/26/2021							0.095	
8/27/2021						<0.04		
9/1/2021								
9/3/2021								0.077
2/8/2022	2.4	0.71	2.4	0.015 (J)	<0.04		0.13	0.074
2/9/2022						<0.04		
2/10/2022								
2/11/2022								

 $\label{lem:constituent: Calcium (mg/L)} \begin{array}{ccc} \text{Canalysis Run 3/21/2022 12:48 PM} & \text{View: Appendix III} \\ \text{Plant Yates} & \text{Client: Southern Company} & \text{Data: Yates Ash Pond 2} \\ \end{array}$

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
6/1/2016	21	2.5	12						
6/2/2016				1.3	8.8	33	28	2.4	1.3
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	20.3	2.16							1.17
7/26/2016			11	1.24	7.69	32.3	24.5	2.12	
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016		2.21	11.8						
9/14/2016	19.7				8.49	31		2.18	
9/15/2016				1.17			27		
9/16/2016									
9/19/2016									1.05
9/20/2016									
9/21/2016									
11/1/2016	18.4		11				25.6		1.14
11/2/2016				1.23	7.83	30.9			
11/3/2016									
11/4/2016		2.67						2.17 (J)	
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				1.24					
1/11/2017	20.3		11.2				27.5		
1/12/2017						35.7		2.37	
1/13/2017					8.08				
1/16/2017		2.45							1.23
1/18/2017									
1/19/2017									
2/21/2017									1.25
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	18.6								
3/2/2017		2.57	11				27.5		
3/3/2017									
3/6/2017					8.64				
3/7/2017						32.7		2.34	
3/8/2017				1.21					
4/26/2017	25.6			1.14			30.4		1.03
4/27/2017		2.38	11.1						
4/28/2017									
5/1/2017					13.4	37			
5/2/2017								2.17	

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		2.36	13.8			36.5		2.13	
	22.0	2.30	13.0			30.3	20.0	2.13	
6/28/2017	23.9						29.8		
6/29/2017					8.81				
6/30/2017				1.24					1.13
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		2.21	14			30.9		2.15	
10/4/2017	22.1						29.7		1.09
10/5/2017				1.11	9.29				
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018			15.2 (J)						
6/6/2018		2.3				26.2			
6/7/2018					8.2		29.1	2.3	
6/8/2018	21.9 (J)			1.1					
6/11/2018									1.1
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
					0.5 (1)	25.0		2.2	
9/26/2018	10.7	1.0	45.4	0.00	9.5 (J)	25.8	20.0	2.3	
10/1/2018	19.7	1.8	15.1	0.99			26.9		
10/2/2018									1.1
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		2.2	13.3 (J)						
3/29/2019				1.1					
4/1/2019	20.4 (J)						30.1		1.3

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
4/2/2019									
4/3/2019					8.4	24.7 (J)		2.8	
6/12/2019									
9/24/2019		2.3	15.8			25.8		2.5	
9/25/2019	22.4			1.1	9.5		29.5		1.1
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		2.1		1.1					
3/19/2020	21.9		15				31.5		1.2
3/20/2020									
3/24/2020						26.1		2.5	
3/25/2020					10.5				
9/22/2020					9.6	27.2		2.6	
9/23/2020	23.6	1.8	14.1				28.6		
9/24/2020									1.1
9/25/2020				1.3					
3/1/2021									1.2
3/2/2021				1.2		1.6		2.6	
3/3/2021	20.6	1.8	14.1		7.7		29.8		
3/4/2021									
8/19/2021		2	14.2	1.2			28.1		1.2
8/20/2021									
8/26/2021					7.6	25.2		2.5	
8/27/2021	24.7								
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	23.7	2.1	14.9				30.3		
2/10/2022				1.3		24.8		2.5	
2/11/2022					7.5				1.5

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
6/1/2016	1GWA-165 (bg)	rawa-rar (bg)	1GWA-173 (bg)	TGVVA-2 IT (bg)	1 GVVA-203 (bg)	1GWC-275	1000-201	1GWC-203	1GWC-271
6/2/2016									
6/6/2016	1.4	6.2							
6/7/2016	17	0.2	2.2	3.7	2.3				
6/8/2016			2.2	0.7	2.0	44	15	13	25
6/9/2016						77	10	15	20
7/25/2016	:								
7/26/2016									
7/27/2016		4.73	2		2.08				
7/28/2016		4.73	2	3.15	2.06				
8/1/2016	'			3.13		36.3	14.5	12.2	21.4
8/2/2016						30.3	14.5	12.2	21.4
8/30/2016									
8/31/2016									
9/13/2016									
9/13/2016									
9/15/2016									
9/16/2016			1.97						
9/10/2010		4.76	1.97	3.17	1.97				
9/20/2016		4.70		3.17	1.97	39.5	15.3	12.2	26.3
9/21/2016						39.3	15.5	12.2	20.3
11/1/2016									
					2.12				
11/2/2016 11/3/2016		5.25	1.99	3.4	2.13				
11/4/2016		5.25	1.99	3.4					
						24.0	12.0	10.1	26.1
11/7/2016 11/8/2016						34.9	13.8	12.1	26.1
11/14/2010									
11/28/201									
12/15/201									
1/10/2017									
1/11/2017		4.74	2.28						
1/11/2017		4.74	2.20						
1/13/2017				4.98	2.45				
1/16/2017				4.90	2.43				
1/18/2017							15.1	11.5	25.6
1/19/2017						37	15.1	11.0	20.0
2/21/2017						0,	14.6	11.7	
2/22/2017						37.6	14.0	11.7	
2/23/2017						07.0			28.2
2/24/2017									20.2
3/1/2017	1.26	5.37							
3/2/2017			2.15						
3/3/2017									
3/6/2017				6.28	2.48				
3/7/2017									
3/8/2017									
4/26/2017	1.05	4.28		6.65	2.3				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			1.95						

		YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
	5/3/2017								11.9	
5	5/5/2017									
5	5/8/2017						35.7	15.2		27.2
5	5/26/2017									
6	6/27/2017									
6	6/28/2017	1.06	4.95							
6	6/29/2017			2.02	6.04	2.54				
6	6/30/2017						36.2			27.2
7	7/5/2017									
7	7/7/2017									
7	7/10/2017							17.4	12.7	
7	7/11/2017									
7	7/17/2017									
1	10/3/2017				8.28					
	10/4/2017	1.1		2.03		2.25				
	10/5/2017		5.28							
	10/6/2017						39.8			
	10/9/2017									27.3
	10/10/2017							15.5	11.4	
	10/11/2017									
	10/12/2017									
	10/16/2017									
	11/20/2017									
	1/10/2018									
	1/11/2018									
	2/19/2018									
	2/20/2018									
	1/2/2018									
	1/3/2018									
	6/5/2018				9.1					
	5/6/2018					2.3				
	5/7/2018		4.8							
	5/8/2018									
	5/11/2018	1.4		2.1						
	5/12/2018						36.2			
	5/13/2018							15.5	12.5	29.4
	6/28/2018									
	3/6/2018									
	3/7/2018									
	9/19/2018									
	9/24/2018									
	9/25/2018	1	4.6	2.1	10.4 (J)	2.3				
9	9/26/2018									
1	10/1/2018									
	10/2/2018						39.1	14.7	12.4 (J)	29.2
1	10/3/2018									
2	2/25/2019									
3	3/26/2019									
3	3/27/2019									
3	3/28/2019									
3	3/29/2019									
4	1/1/2019						38			27.4

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
4/2/2019			2.5	8.8			16.1 (J)	11.9 (J)	
4/3/2019	1.2	5.3			2.9				
6/12/2019									
9/24/2019				7.7					
9/25/2019			2.6		2.4		15.6	11.6	
9/26/2019	1.1	4.9				37.5			24.2
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020								13	
3/20/2020						42.1	17.1		30.3
3/24/2020	1	5.3	2.7	6	2.6				
3/25/2020									
9/22/2020									
9/23/2020	0.91 (J)	5.2	2.6						
9/24/2020				7.8	2.6	38.6	16.9	11.3	27.9
9/25/2020									
3/1/2021									
3/2/2021								12.9	
3/3/2021	0.96 (J)	5.2	2.5		2.4	30.2	16.1		25.7
3/4/2021				8.7					
8/19/2021								11.5	
8/20/2021						29.9	17.2		25.7
8/26/2021	0.98 (J)								
8/27/2021		5.1	2.7		2.4				
9/1/2021				9.5					
9/3/2021									
2/8/2022						27.2			
2/9/2022	0.87 (J)	5.1	2.8	9.8	2.3				
2/10/2022							16.4	11.6	27.4
2/11/2022									

		YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/20									
6/2/20	116								
6/6/20	116								
6/7/20	116								
6/8/20	116								
6/9/20	116	26	12	36					
7/25/2	016								
7/26/2	016								
7/27/2	2016								
7/28/2	2016								
8/1/20	16								
8/2/20	16	25.8	11.7	35.5					
8/30/2	2016				20.9				
8/31/2	016					9.31			
9/13/2	016								
9/14/2	2016						23.5		
9/15/2	2016								
9/16/2	2016								
9/19/2									
9/20/2									
9/21/2	2016	24.9	11.1	33.2					
11/1/2									
11/2/2									
11/3/2									
11/4/2							23.7		
11/7/2		25.1	11.4						
11/8/2				33.8					
11/14/					18.6				
11/28/						9.47 (B)			
12/15/						(=)	23.1		
1/10/2									
1/11/2									
1/12/2									
1/13/2									
1/16/2							23.3		
1/18/2		26.1		33.4					
1/19/2			12						
2/21/2		29							
2/22/2			11.2	33.8		10.4			
2/23/2									
2/24/2					16.1				
3/1/20									
3/2/20									
3/3/20							25.1		
3/6/20									
3/7/20									
3/8/20									
4/26/2									
4/27/2									
4/28/2							30.7		
5/1/20							· ·		
5/2/20									

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	28.1		33.5					
5/8/2017		11.2		14.6	14.2			
5/26/2017						26.2		
6/27/2017								
6/28/2017						26.1		
6/29/2017								
6/30/2017								
7/5/2017		11.9	33.4					
7/7/2017	28.6							
7/10/2017								
7/11/2017				14.3				
7/17/2017					14.1			
10/3/2017						26.7		
10/4/2017								
10/5/2017		12	36.4					
10/6/2017								
10/9/2017	27.3							
10/10/2017				12.1				
10/11/2017							2.74	
10/12/2017								2.9
10/16/2017					13.6			
11/20/2017							1.81	10.4
1/10/2018								10.2
1/11/2018							1.54	
2/19/2018					<25			<25
2/20/2018							1.71	
4/2/2018				<25				
4/3/2018							1.4	6.3
6/5/2018								
6/6/2018								
6/7/2018						25		
6/8/2018		10.1						
6/11/2018	20.4	12.1	22.4					
6/12/2018	26.4		33.4					
6/13/2018							1.4	6.7
6/28/2018 8/6/2018					11 4 (1)		1.4	6.7
8/7/2018					11.4 (J)		1.2	6.3
9/19/2018				11.1 (J)			1.2	0.3
9/24/2018				11.1 (3)			1.1	5.7
9/25/2018							1.1	5.7
9/26/2018								
10/1/2018						25		
10/2/2018		11.7 (J)				20		
10/3/2018	25.8	(3)	32.6					
2/25/2019	20.0		52.5		12.7 (J)			
3/26/2019					.2., (0)			5.6
3/27/2019				10.8 (J)			1.5	
3/28/2019				- (-)			-	
3/29/2019						23.5 (J)		
4/1/2019		11.9 (J)	33.8			\~/		
		- \-/	-					

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019	25.7							
4/3/2019								
6/12/2019					18.9			
9/24/2019						26.4		
9/25/2019		10.7						
9/26/2019	26.1		32					
10/8/2019				9.7	28.3			
10/9/2019							2.4	4.9
3/17/2020				14.8	24.3			
3/18/2020								
3/19/2020	30.4		37.3			27.4		
3/20/2020		12.7						
3/24/2020								4.8
3/25/2020							2.7	
9/22/2020				10.1	31			
9/23/2020						26.3		
9/24/2020	30.8	12.4	34.3				3.7	4.4
9/25/2020								
3/1/2021				10.3				
3/2/2021					34.2			
3/3/2021	28.4	9.5	30.9			25.6		
3/4/2021							8.2	4.6
8/19/2021				9.6				
8/20/2021	27.8	10.2	33.1		26.5			
8/26/2021							14.1	
8/27/2021						22.6		
9/1/2021								5.0
9/3/2021	00.7	0.0	21.0	0.4	25.0		15.0	5.6
2/8/2022	26.7	9.3	31.8	9.4	25.6	22.4	15.2	6
2/9/2022						23.4		
2/10/2022								
2/11/2022								

		YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
	1/2016	1.3	1.6	1.3						
6/2	2/2016				4.1	3.7	7.2	1.4	4.3	1.9
6/6	6/2016									
6/	7/2016									
6/8	8/2016									
	9/2016									
	25/2016	1.3	1.4							1.7
		1.3	1.4	4.0		0.0	0.0	1.0		1.7
	26/2016			1.2	4	3.6	6.6	1.6	4.4	
	27/2016									
7/2	28/2016									
8/	1/2016									
8/2	2/2016									
8/3	30/2016									
8/3	31/2016									
	13/2016		1.3	1.1						
	14/2016	1.3				3.4	6.6		3.8	
	15/2016	1.5			4.2	5.4	0.0	1.5	3.0	
					4.2			1.5		
	16/2016									
	19/2016									1.6
9/2	20/2016									
9/2	21/2016									
11	/1/2016	1.4		1.3				1.7		1.8
11	/2/2016				4.9	4.5	7.6			
11	/3/2016									
	/4/2016		1.6						4.8	
	/7/2016									
	/8/2016									
	/14/2016									
	/28/2016									
	2/15/2016									
	10/2017				4.1					
1/	11/2017	1.1		1.1				1.2		
1/	12/2017						6.8		3.8	
1/	13/2017					4.2				
1/	16/2017		1.4							1.7
1/	18/2017									
1/	19/2017									
	21/2017									1.7
	22/2017									
	23/2017									
	24/2017									
	1/2017	1.1								
	2/2017		1.3	1				1.2		
3/3	3/2017									
3/0	6/2017					3.6				
3/	7/2017						6.8		4.5	
3/8	8/2017				4.2					
	26/2017	1.1			4.1			1.2		1.7
	27/2017		1.3	1						
	28/2017									
	1/2017					4.3	7.2			
	2/2017					- -			4.6	
5/1										

		YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
5	5/3/2017									
	5/5/2017									
	5/8/2017									
	5/26/2017									
	6/27/2017		1.4	1.1			7		4.3	
	6/28/2017	1.2	1.4	1.1			,	1.3	4.5	
		1.2				1.0		1.3		
	5/29/2017					4.2				
	6/30/2017				3.7					1.8
	7/5/2017									
7	//7/2017									
7	//10/2017									
7	//11/2017									
7	//17/2017									
1	0/3/2017		1.7	1.1			6.5		4.2	
	0/4/2017	1.2						1.5		1.8
	0/5/2017				3.8	4.7				
	0/6/2017									
	0/9/2017									
	0/10/2017									
	0/11/2017									
	0/12/2017									
	0/16/2017									
	1/20/2017									
	/10/2018									
	/11/2018									
2	2/19/2018									
2	2/20/2018									
4	/2/2018									
4	/3/2018									
6	6/5/2018			1.1						
6	6/6/2018		1.4				4.7			
6	5/7/2018					4.4		1.2	4.5	
	6/8/2018	1.2			3.4					
	6/11/2018									2
	6/12/2018									
	6/13/2018									
	5/28/2018									
	3/6/2018									
	8/7/2018									
)/19/2018									
	9/24/2018									
	9/25/2018									
	9/26/2018					4.8	4.8		5.1	
	0/1/2018	1.2	1.4	1.1	3.8			1.5		
1	0/2/2018									1.8
1	0/3/2018									
2	2/25/2019									
3	3/26/2019									
3	3/27/2019									
	3/28/2019		1.5	1.4						
	3/29/2019				4.2					
	/1/2019	1.1						1.2		1.7

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
4/2/2019									
4/3/2019					4.3	4		4.2	
6/12/2019									
9/24/2019		1.3	1.1			3.7		4.5	
9/25/2019	1.1			4.8	4.5		1.1		1.6
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		1.4		5.2					
3/19/2020	1.1		1.1				1.2		1.8
3/20/2020									
3/24/2020						3.5		4.3	
3/25/2020					3.9				
9/22/2020					4.5	3.6		4.2	
9/23/2020	1	1.2	0.99 (J)				1.1		
9/24/2020									1.5
9/25/2020				5.3					
3/1/2021									1.6
3/2/2021				4.9		3.2		4.3	
3/3/2021	0.99 (J)	1.2	0.96 (J)		4.1		1.1		
3/4/2021									
8/19/2021		1.3	1.1	5			1.1		1.6
8/20/2021									
8/26/2021					4.4	3.4		4.3	
8/27/2021	1.1								
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	1.1	1.3	1				1.1		
2/10/2022				4.7		3.2		4.4	
2/11/2022					4.1				2.1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	6.4	6.8							
6/7/2016			4.5	2.8	1.9				
6/8/2016			4.5	2.0	1.5	22	19	18	14
						22	19	10	14
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	6.2	6.7	4.5		1.9				
7/28/2016				2.6					
8/1/2016						21	17	16	13
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	6.1		4.5						
9/19/2016	0.1	7	4.0	2.4	1.9				
9/20/2016		,		2.4	1.5	22	18	18	13
						22	10	10	13
9/21/2016									
11/1/2016									
11/2/2016					2.6				
11/3/2016	7.4	7.5	5.4	2.9					
11/4/2016									
11/7/2016						24	17	16	14
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	6.1	6.5	4.7						
1/12/2017									
1/13/2017				2.5	2.3				
1/16/2017				2.0	2.5				
1/18/2017							19	17	14
						20	19	17	14
1/19/2017						22	10	10	
2/21/2017							18	16	
2/22/2017						21			
2/23/2017									14
2/24/2017									
3/1/2017	6	6.9							
3/2/2017			4.8						
3/3/2017									
3/6/2017				2.1	1.9				
3/7/2017									
3/8/2017									
4/26/2017	6.5	7		2.1	2				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			4.6						
5. LI LU 1 /									

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
5/3/2017								17	
5/5/2017									
5/8/2017						22	18		14
5/26/2017									
6/27/2017									
6/28/2017	6.4	7							
6/29/2017			4.5	2.8	2.6				
6/30/2017						21			14
7/5/2017									
7/7/2017									
7/10/2017							19	15	
7/11/2017									
7/17/2017									
10/3/2017				2.2					
10/4/2017	6.8		4.7		2.6				
10/5/2017		7							
10/6/2017						21			
10/9/2017									14
10/10/2017							19	15	
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018				1.7					
6/6/2018				1.7	2.7				
6/7/2018		6.8			2.7				
6/8/2018		0.0							
6/11/2018	6.8		4.9						
6/12/2018	0.0		4.5			19.8			
6/13/2018						19.0	18.1	14.2	13.1
6/28/2018							10.1	14.2	13.1
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018 9/25/2018	7.8	7.9	F.C.	2.2	3.6				
	7.0	7.9	5.6	2.2	3.0				
9/26/2018									
10/1/2018						10.0	10.0	4.4	10.0
10/2/2018						19.9	18.3	14	13.8
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019						10.7			140
4/1/2019						19.7			14.2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
4/2/2019			4.8	2.5			17.9	13.5	
4/3/2019	6.3	6.9			3.1				
6/12/2019									
9/24/2019				3.1					
9/25/2019			5.7		2.8		17.1	14.4	
9/26/2019	7.1	7				19.6			14.3
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020								15.4	
3/20/2020						17.7	17.7		13
3/24/2020	6.8	7	5	2.8	2.7				
3/25/2020									
9/22/2020									
9/23/2020	7.2	7.2	6.6						
9/24/2020				2	2.7	17	17.1	15.7	13.3
9/25/2020									
3/1/2021									
3/2/2021								13.2	
3/3/2021	7.2	7	7.1		2.7	4	16.6		13
3/4/2021				1.8					
8/19/2021								13.5	
8/20/2021						15.2	14.4		13.7
8/26/2021	7.3								
8/27/2021		7.4	8.5		2.8				
9/1/2021				1.8					
9/3/2021									
2/8/2022						13			
2/9/2022	7	7.5	10.9	1.7	2.8				
2/10/2022							15.4	14	13.1
2/11/2022									

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	
6/1/2016				. 2 (-9)	(-9)	(-3)	(-9)	(23)	
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016	19	15	18						
7/25/2016		15	10						
7/26/2016									
7/27/2016									
7/28/2016 8/1/2016									
	10	4.4	10						
8/2/2016	18	14	18	5.0					
8/30/2016				5.2					
8/31/2016					4				
9/13/2016									
9/14/2016						1.1			
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
9/21/2016		14	18						
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016						1.4			
11/7/2016		14							
11/8/2016			18						
11/14/2010				6.4					
11/28/2010					4.2				
12/15/2010						2.9			
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017						0.98			
1/18/2017			18						
1/19/2017		14							
2/21/2017									
2/22/2017		13	18		3.7				
2/23/2017									
2/24/2017				5.5					
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									

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	21		19					
5/8/2017		15		5.8	4.2			
5/26/2017						0.93		
6/27/2017								
6/28/2017						1		
6/29/2017								
6/30/2017								
7/5/2017		14	18					
7/7/2017	20							
7/10/2017								
7/11/2017				5.8				
7/17/2017					3.8			
10/3/2017						1.2		
10/4/2017								
10/5/2017		15	19					
10/6/2017								
10/9/2017	20							
10/10/2017				5.9				
10/11/2017							2.4	
10/12/2017								3.8
10/16/2017					4.2			
11/20/2017							1.8	4.4
1/10/2018								4.6
1/11/2018							1.6	
2/19/2018					4.3			4.6
2/20/2018							2	
4/2/2018				4.8			_	
4/3/2018							3.3	5.9
6/5/2018							0.0	0.0
6/6/2018								
6/7/2018						1		
6/8/2018						•		
6/11/2018		13.6						
6/12/2018	19.3	13.0	17.6					
6/13/2018	10.0		17.0					
6/28/2018							2.1	5
8/6/2018					3.8		2.1	3
8/7/2018					0.0		1.2	4.3
9/19/2018				4			1.2	4.0
9/24/2018				7			1.3	4.9
9/25/2018							1.5	4.3
9/26/2018								
10/1/2018						1.1		
		13.4				1.1		
10/2/2018 10/3/2018	20.2	10.4	17.7					
2/25/2019	20.2		17.7		4.1			
					4.1			4.4
3/26/2019 3/27/2019				4.3			1.4	4.4
3/28/2019				4.5			1.4	
						1.2		
3/29/2019		12.1	17.2			1.2		
4/1/2019		13.1	17.2					

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019	19.5							
4/3/2019								
6/12/2019					4.7			
9/24/2019						0.95 (J)		
9/25/2019		11.3						
9/26/2019	19.5		17.3					
10/8/2019				4.4	5.1			
10/9/2019							2.1	5.1
3/17/2020				4.1	4.8			
3/18/2020								
3/19/2020	18.1		16			0.97 (J)		
3/20/2020		11.3						
3/24/2020								4.7
3/25/2020							1.9	
9/22/2020				4.2	4.2			
9/23/2020						0.88 (J)		
9/24/2020	18	10.9	15.1				2.7	5
9/25/2020								
3/1/2021				3.7				
3/2/2021					4.1			
3/3/2021	18	6.7	14.6			0.86 (J)		
3/4/2021							4.9	4.9
8/19/2021				3.5				
8/20/2021	18.1	6.8	15.2		5.2			
8/26/2021							7.2	
8/27/2021						0.99 (J)		
9/1/2021								
9/3/2021								5.5
2/8/2022	18.3	5.5	15.2	3.2	5.7		7.4	6.2
2/9/2022						1 (J)		
2/10/2022								
2/11/2022								

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-14S (bg)
6/1/2016	<0.1	0.15 (J)	0.12 (J)						
6/2/2016				<0.1	0.11 (J)	<0.1	<0.1	0.62	<0.1
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	0.06 (J)	0.14 (J)				0.06 (J)			
7/26/2016			0.08 (J)	<0.1	0.05 (J)		<0.1	0.49	0.02 (J)
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016	<0.1		0.11 (J)						
9/14/2016		0.18 (J)		<0.1	0.04 (J)		<0.1		
9/15/2016								0.54	<0.1
9/16/2016									
9/19/2016						<0.1			
9/20/2016									
9/21/2016									
11/1/2016		<0.1	<0.1			<0.1		0.68	
11/2/2016					<0.1		<0.1		<0.1
11/3/2016									
11/4/2016	<0.1			<0.1					
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									<0.1
1/11/2017		0.09 (J)	0.05 (J)					0.49	•
1/12/2017		0.00 (0)	0.00 (0)	<0.1	0.04 (J)			0.40	
1/13/2017				-0.1	0.04 (3)		<0.1		
1/16/2017	<0.1					<0.1	-0.1		
1/18/2017	-0.1					30.1			
1/19/2017									
2/21/2017						<0.1			
2/22/2017						~0.1			
2/23/2017									
2/24/2017		-0.1							
3/1/2017	-0.4	<0.1	-0.1					0.40	
3/2/2017	<0.1		<0.1					0.48	
3/3/2017							-0.1		
3/6/2017				-0.1	-0.1		<0.1		
3/7/2017				<0.1	<0.1				
3/8/2017									<0.1
4/26/2017		0.08 (J)				<0.1		0.48	<0.1
4/27/2017	0.01 (J)		0.04 (J)						
4/28/2017									
5/1/2017					<0.1		<0.1		
5/2/2017				<0.1					

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-14S (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017	<0.1		<0.1	<0.1	<0.1				
6/28/2017		0.12 (J)						0.47	
6/29/2017							<0.1		
6/30/2017						<0.1			<0.1
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017	<0.1		<0.1	<0.1	<0.1				
10/3/2017	<0.1	<0.1	<0.1	~ 0.1	<0.1	<0.1		<0.1	
		<0.1				<0.1		<0.1	
10/5/2017							<0.1		<0.1
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
3/27/2018	<0.1					<0.1			<0.1
3/28/2018		<0.1						0.56	
3/29/2018			<0.1	<0.1	<0.1		<0.1		
3/30/2018									
4/2/2018									
4/3/2018									
6/5/2018			0.055 (J)						
6/6/2018	-0.1		0.055 (3)		0.15 (1)				
	<0.1			-0.1	0.15 (J)		-0.1	0.40	
6/7/2018		0.071)		<0.1			<0.1	0.48	-0.4
6/8/2018		0.2 (J)							<0.1
6/11/2018						<0.1			
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018				<0.1	<0.1		<0.1		
10/1/2018	<0.1	<0.1	<0.1					0.44	<0.1
10/2/2018						<0.1			
10/3/2018									
2/25/2019									
2/26/2019						<0.1			<0.1

2	2/27/2019	YGWA-1I (bg) <0.1	YGWA-3I (bg) 0.13 (J)	YGWA-1D (bg) 0.052 (J)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg) 0.53	YGWA-14S (bg)
	3/4/2019				<0.1	0.19 (J)		<0.1		
	3/5/2019					. ,				
	3/6/2019									
	3/26/2019									
	3/27/2019									
	3/28/2019	<0.1		0.036 (J)						
	3/29/2019	~0.1		0.030 (3)						<0.1
	1/1/2019		0.171)				-0.1		0.45	V 0.1
	1/2/2019		0.1 (J)				<0.1		0.45	
	1/3/2019				<0.1	0.047 (1)		<0.1		
	6/12/2019				~ 0.1	0.047 (J)		<0.1		
	3/19/2019									
	3/20/2019									
	3/21/2019	.0.4		0.000 (1)	.0.4	0.05 (1)				
	9/24/2019	<0.1	0.1 (1)	0.063 (J)	<0.1	0.05 (J)			0.40	
	9/25/2019		0.1 (J)				<0.1	<0.1	0.46	<0.1
	9/26/2019									
	10/8/2019									
	10/9/2019									
	2/10/2020	<0.1		0.061 (J)						
	2/11/2020		0.094 (J)							
	2/12/2020				<0.1	<0.1	<0.1	<0.1	0.4	<0.1
	2/13/2020									
	3/17/2020									
	3/18/2020	<0.1								<0.1
	3/19/2020		0.11 (J)	0.064 (J)			<0.1		0.51	
	3/20/2020									
	3/24/2020				<0.1	<0.1				
	3/25/2020							<0.1		
	3/26/2020									
	3/27/2020									
	9/22/2020				<0.1	0.056 (J)		<0.1		
	9/23/2020	<0.1	0.098 (J)	0.058 (J)					0.47	
	9/24/2020						<0.1			
g	9/25/2020									<0.1
	2/8/2021				<0.1	0.055 (J)				
	2/9/2021							<0.1		
	2/10/2021		<0.1						0.43	<0.1
	2/11/2021						<0.1			
	2/12/2021	<0.1		0.068 (J)						
	3/1/2021						<0.1			
	3/2/2021				<0.1	<0.1				<0.1
	3/3/2021	<0.1	0.1	0.078 (J)				<0.1	0.44	
	3/4/2021									
	3/19/2021	<0.1		0.074 (J)			<0.1		0.47	<0.1
	3/20/2021									
	3/26/2021				<0.1	0.061 (J)		<0.1		
	3/27/2021		0.12							
	9/1/2021									
	9/3/2021									
2	2/8/2022									

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Prediction Limit

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-14S (bg)
2/9/2022	<0.1	0.097 (J)	0.057 (J)					0.43	
2/10/2022				<0.1	0.055 (J)				<0.1
2/11/2022						<0.1	<0.1		

Control		YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
Personal Property of the pro	6/1/2016									
Personal Property of the pro	6/2/2016									
602818		<0.1	<0.1							
680016 68				<0.1	<0.1	<0.1				
Page				-0.1	-0.1	-0.1	<0.1	0.12 (1)	0.004 (1)	0.086 (1)
7362016							-0.1	0.12 (0)	0.054 (5)	0.000 (0)
7282016										
1908										
1002 1002										
84710716		<0.1	<0.1	<0.1	<0.1					
8202016 83032016 84132016 91132016 91132016 91132016 91132016 91132016 91132016 91132016 91132016 91132016 91132016 91132017 111132016 111132016 111132016 111132016 111132016 111132016 111132016 111132016 111132016 111132016 111132016 111132016 111132016 111132017 1						0.02 (J)				
803/2016							0.24 (J)	0.22 (J)	0.08 (J)	0.14 (J)
811/2016 911/2016	8/2/2016									
9182016	8/30/2016									
915/2016	8/31/2016									
9182016	9/13/2016									
9162016	9/14/2016									
9192016	9/15/2016									
921/2016	9/16/2016	<0.1		<0.1						
921/2016	9/19/2016		<0.1		<0.1	0.02 (J)				
921/2016 111/2016							0.03 (J)	0.32	0.05 (J)	<0.1
111/12016										
11/12/2016										
11/3/2016					<0.1					
1114/2016 1117/2016 1118/2016 1114/2016 1114/2016 1114/2016 1114/2016 1114/2016 1114/2016 1114/2016 1114/2016 1114/2017 1118/2		<0.1	<0.1	<0.1	-0.1	<0.1				
11/7/2016		30.1	30.1	30.1		30.1				
118/2016							0.44	~0 1 (*)	<0.1 (*)	<0.1 (*)
11/14/2016 11/28/2016 11/28/2016 11/28/2016 11/28/2016 11/29/2017 11/12/2017 4.0.1 4							0.44	<0.1(*)	<0.1 (*)	<0.1()
11/28/2016 12/15/2016 11/10/2017 11/11/2017										
12/15/2016 17/10/2017 17/										
1/11/2017										
1/11/2017										
1/12/2017 1/13/2017 1/18/2017 1/18/2017 1/18/2017 1/18/2017 1/19/2										
1/13/2017		<0.1	<0.1	<0.1						
1/16/2017 1/18/2017 1/19/2017 2/21/2017 2/22/2017 2/22/2017 2/22/2017 2/23/2017 3/1/2017 3/1/2017 3/6/2017 3/6/2017 3/6/2017 3/6/2017 3/8/2017 3/8/2017 3/8/2017 3/8/2017 3/8/2017 3/8/2017 3/8/2017 3/8/2017 3/8/2017 3/8/2017 3/8/2017 3/8/2017 3/8/2017 3/8/2017 3/8/2017 3/8/2017 3/8/2017 3/8/2017 3/8/2017 4/26/2017 4/26/2017 4/26/2017 4/26/2017 4/28/2017 5/1/2017										
1/18/2017					<0.1	<0.1				
1/19/2017										
2/21/2017	1/18/2017						<0.1 (*)		0.11 (J)	<0.1 (*)
2/22/2017 2/23/2017 2/24/2017 3/1/2017 3/3/2017 4/26/2017 4/26/2017 4/28/2017 5/1/2017	1/19/2017							0.25 (J)		
2/23/2017							<0.1 (*)		<0.1 (*)	
2/24/2017 3/1/2017 < 0.1 < 0.1 3/2/2017 3/3/2017 3/6/2017 3/7/2017 3/8/2017 4/26/2017 < 0.1 < 0.1 < 0.1 4/27/2017 4/28/2017 5/1/2017	2/22/2017							0.21 (J)		
3/1/2017 < 0.1 < 0.1 3/2/2017	2/23/2017									<0.1 (*)
3/2/2017	2/24/2017									
3/3/2017 3/6/2017 3/7/2017 3/8/2017 4/26/2017 4/28/2017 4/28/2017 5/1/2017	3/1/2017	<0.1	<0.1							
3/3/2017 3/6/2017 3/7/2017 3/8/2017 4/26/2017 4/28/2017 4/28/2017 5/1/2017	3/2/2017			<0.1						
3/6/2017 3/7/2017 3/8/2017 4/26/2017 <0.1 <0.1 <0.1 0.04 (J) 4/27/2017 4/28/2017 5/1/2017										
3/7/2017 3/8/2017 4/26/2017 <0.1 <0.1 <0.1 0.04 (J) 4/27/2017 4/28/2017 5/1/2017					<0.1	<0.1				
3/8/2017 4/26/2017 <0.1 <0.1 <0.1 0.04 (J) 4/27/2017 4/28/2017 5/1/2017										
4/26/2017 <0.1 <0.1 <0.1 0.04 (J) 4/27/2017 4/28/2017 5/1/2017										
4/27/2017 4/28/2017 5/1/2017		<0.1	<0.1		<0.1	0.04 (J)				
4/28/2017 5/1/2017		•	•		-	- 1-1				
5/1/2017										
0.1				<0.1						
				· · · ·						

F/0/0047	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
5/3/2017						0.16 (J)			
5/5/2017									
5/8/2017							0.19 (J)	0.08 (J)	0.07 (J)
5/26/2017									
6/27/2017									
6/28/2017	<0.1	<0.1							
6/29/2017			<0.1	<0.1	<0.1				
6/30/2017							0.2 (J)		<0.1 (*)
7/5/2017									
7/7/2017									
7/10/2017						<0.1 (*)		<0.1 (*)	
7/11/2017									
7/17/2017									
10/3/2017					<0.1				
10/4/2017	<0.1		<0.1	<0.1					
10/5/2017		<0.1							
10/6/2017							<0.1 (*)		
10/9/2017									<0.1 (*)
10/10/2017						<0.1		<0.1	
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
3/27/2018									
3/28/2018	<0.1	<0.1	<0.1						
3/29/2018	0.1		0	<0.1	<0.1		0.49		<0.1
3/30/2018						0.35	0.10	<0.1	
4/2/2018						0.00			
4/3/2018									
6/5/2018					0.13 (J)				
6/6/2018				<0.1	0.13 (3)				
6/7/2018		<0.1		-0.1					
6/8/2018		~0.1							
6/11/2018	<0.1		<0.1						
6/12/2018	~0.1		~0.1				0.037 (J)		
6/13/2018						0.044 (1)	0.037 (3)	0.000 (1)	-0.1
						0.044 (J)		0.088 (J)	<0.1
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018	-0.1	-0.4	-0.4	-0.1	0.71				
9/25/2018	<0.1	<0.1	<0.1	<0.1	0 (J)				
9/26/2018									
10/1/2018									
10/2/2018						<0.1	<0.1	<0.1	<0.1
10/3/2018									
2/25/2019									
2/26/2019									

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
2/27/2019						<0.1	0.14 (J)	<0.1	<0.1
3/4/2019									
3/5/2019	<0.1		<0.1	<0.1	0.32				
3/6/2019		<0.1							
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019							0.088 (J)		0.034 (J)
4/2/2019			<0.1		0.12 (J)	<0.1	0.000 (3)	0.071 (J)	0.004 (0)
4/3/2019	<0.1	<0.1	30. I	<0.1	0.12 (3)	30.1		0.071 (0)	
6/12/2019	-0.1	30. I		30.1					
8/19/2019									
8/20/2019									
8/21/2019					0.45 (1)				
9/24/2019					0.15 (J)				
9/25/2019			<0.1	<0.1		<0.1		0.064 (J)	
9/26/2019	<0.1	<0.1					0.22 (J)		0.14 (J)
10/8/2019									
10/9/2019									
2/10/2020									
2/11/2020	<0.1	<0.1	<0.1						
2/12/2020				<0.1	0.1 (J)				
2/13/2020						<0.1	0.11 (J)	<0.1	<0.1
3/17/2020									
3/18/2020									
3/19/2020						<0.1			
3/20/2020							0.097 (J)	0.06 (J)	<0.1
3/24/2020	<0.1	<0.1	<0.1	<0.1	0.081 (J)				
3/25/2020									
8/26/2020									
8/27/2020									
9/22/2020									
9/23/2020	<0.1	<0.1	<0.1						
9/24/2020				<0.1	0.079 (J)	<0.1	0.092 (J)	0.053 (J)	0.059 (J)
9/25/2020									
2/8/2021									
2/9/2021	<0.1	<0.1		<0.1	0.092 (J)				
2/10/2021					(-)	<0.1	0.084 (J)	0.05 (J)	0.055 (J)
2/11/2021						0	0.001 (0)	0.00 (0)	0.000 (0)
2/12/2021									
3/1/2021									
3/2/2021						<0.1			
3/3/2021	<0.1	<0.1	<0.1	<0.1		~0.1	<0.1	0.05 (J)	0.058 (J)
	<0.1	<0.1	<0.1	<0.1	0.001 (1)		<0.1	0.05 (3)	0.056 (3)
3/4/2021					0.091 (J)	-0.4			
8/19/2021						<0.1	0.11	-0.1	0.004 (1)
8/20/2021	-0.4						0.11	<0.1	0.091 (J)
8/26/2021	<0.1	.0.4	.0.4	.0.4					
8/27/2021		<0.1	<0.1	<0.1					
9/1/2021					0.11				
9/3/2021									
2/8/2022							0.087 (J)		

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Prediction Limit

		YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
2/9	9/2022	<0.1	<0.1	<0.1	<0.1	0.1				
2/	10/2022						<0.1		<0.1	0.059 (J)
2/	11/2022									

	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016	0.098 (J)	0.085 (J)	0.16 (J)						
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016	0.38	0.09 (J)	0.5						
8/30/2016				0.09 (J)					
8/31/2016					0.14 (J)				
9/13/2016									
9/14/2016						0.08 (J)			
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
9/21/2016	0.08 (J)	0.09 (J)	0.25 (J)						
11/1/2016	,	()	,						
11/2/2016									
11/3/2016									
11/4/2016						<0.1			
11/7/2016		<0.1 (*)	0.27 (J)						
11/8/2016	0.24 (J)	()	(-)						
11/14/2016				0.18 (J)					
11/28/2016				(-)	0.12 (J)				
12/15/2016					(-)	0.06 (J)			
1/10/2017						(. ,			
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017						0.1 (J)			
1/18/2017	0.12 (J)		0.34			. ,			
1/19/2017	,	<0.1 (*)							
2/21/2017		.,	0.27 (J)						
2/22/2017	<0.1 (*)	<0.1 (*)			0.09 (J)				
2/23/2017									
2/24/2017				0.05 (J)					
3/1/2017				. ,					
3/2/2017									
3/3/2017						<0.1			
3/6/2017									
3/7/2017									
3/8/2017									
4/26/2017									
4/27/2017									
4/28/2017						0.06 (J)			
5/1/2017						. ,			
5/2/2017									

	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017				(0,	(0,	(0,	(0,	(0)
5/5/2017	0.08 (J)		0.2 (J)					
5/8/2017	.,	0.06 (J)	.,	0.03 (J)	0.05 (J)			
5/26/2017		()		.,	. ,	0.09 (J)		
6/27/2017								
6/28/2017						0.11 (J)		
6/29/2017						(-)		
6/30/2017								
7/5/2017	0.11 (J)	0.08 (J)						
7/7/2017	0.11(0)	0.00 (0)	0.18 (J)					
7/10/2017			0.10 (0)					
7/11/2017				0.07 (J)				
7/17/2017				0.07 (3)	0.14 (J)			
10/3/2017					0.14 (0)	<0.1		
10/4/2017						30.1		
10/5/2017	<0.1 (*)	<0.1 (*)						
10/6/2017	<0.1()	<0.1()						
10/9/2017			-0.1 (*)					
			<0.1 (*)	-0.1				
10/10/2017 10/11/2017				<0.1			<0.1	
							<0.1	20.1
10/12/2017					0.12 (1)			<0.1
10/16/2017					0.12 (J)		-0.1	-0.4
11/20/2017							<0.1	<0.1
1/10/2018								<0.1
1/11/2018					0.47		<0.1	
2/19/2018					0.17		0.00	<0.1
2/20/2018							0.23	
3/27/2018								
3/28/2018						0.31		
3/29/2018		<0.1						
3/30/2018	<0.1		<0.1					
4/2/2018				<0.1				
4/3/2018							<0.1	<0.1
6/5/2018								
6/6/2018						0.44 (1)		
6/7/2018						0.11 (J)		
6/8/2018		-0.1						
6/11/2018		<0.1	0.40 (1)					
6/12/2018	<0.1		0.13 (J)					
6/13/2018								
6/28/2018					0.007 (1)		<0.1	<0.1
8/6/2018					0.087 (J)		0.040 (1)	-0.4
8/7/2018				.0.4			0.048 (J)	<0.1
9/19/2018				<0.1			-0.1	-0.4
9/24/2018							<0.1	<0.1
9/25/2018								
9/26/2018								
10/1/2018		.0.4				<0.1		
10/2/2018		<0.1						
10/3/2018	<0.1		0.31					
2/25/2019					0.14 (J)			
2/26/2019								

					,			
	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/27/2019	0.14 (J)	0.15 (J)	0.22 (J)			0.12 (J)		
3/4/2019								
3/5/2019								
3/6/2019								
3/26/2019								<0.1
3/27/2019				0.081 (J)			<0.1	
3/28/2019								
3/29/2019						0.13 (J)		
4/1/2019	0.078 (J)	0.059 (J)						
4/2/2019			0.14 (J)					
4/3/2019								
6/12/2019					0.12 (J)			
8/19/2019					<0.1			
8/20/2019				<0.1				
8/21/2019							<0.1	<0.1
9/24/2019						0.081 (J)		
9/25/2019		0.054 (J)						
9/26/2019	0.29 (J)		0.28 (J)					
10/8/2019				0.034 (J)	0.052 (J)			
10/9/2019							<0.1	<0.1
2/10/2020								
2/11/2020						0.075 (J)		
2/12/2020							<0.1	<0.1
2/13/2020	0.14 (J)	0.053 (J)	0.18 (J)					
3/17/2020				<0.1	0.053 (J)			
3/18/2020								
3/19/2020	0.07 (J)		0.16 (J)			0.093 (J)		
3/20/2020		0.057 (J)						
3/24/2020								<0.1
3/25/2020							<0.1	
8/26/2020					0.068 (J)			
8/27/2020				<0.1				
9/22/2020				<0.1	0.058 (J)			
9/23/2020						0.08 (J)		
9/24/2020	0.073 (J)	0.06 (J)	0.16				<0.1	<0.1
9/25/2020								
2/8/2021								
2/9/2021								
2/10/2021						0.094 (J)	<0.1	<0.1
2/11/2021	0.066 (J)							
2/12/2021		0.17	0.069 (J)					
3/1/2021				<0.1				
3/2/2021					0.073 (J)			
3/3/2021	0.072 (J)	0.056 (J)	0.13			0.085 (J)		
3/4/2021							<0.1	<0.1
8/19/2021				<0.1				
8/20/2021	0.11	0.069 (J)	0.2		0.06 (J)			
8/26/2021					•		0.063 (J)	
8/27/2021						0.12	-	
9/1/2021								
9/3/2021								<0.1
2/8/2022	0.063 (J)	0.053 (J)	0.14	<0.1	0.064 (J)		0.052 (J)	<0.1
	` '	` '			` '		. ,	

	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	
2/9/2022						0.094 (J)			
2/10/2022									
2/11/2022									

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)
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								
6/1/2016		7.72	7.46	6.33					
6/2/2016			7.10	0.00	7.84	5.46	5.75	7.67	6.36
6/6/2016					7.0	0.10	0.70		0.00
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016		7.74		6.21					
7/26/2016		7.74	7.43	0.21	7.88	5.45	5.72	7.66	6.22
7/27/2016			7.43		7.00	5.45	5.72	7.00	0.22
7/28/2016 8/1/2016									
8/2/2016									
8/30/2016 9/13/2016			7.44	6.16					
		7.65	7.44	0.10			E 74	7.6	6.00
9/14/2016		7.65			7.74	E 4E	5.74	7.6	6.23
9/15/2016					7.74	5.45			
9/16/2016									
9/19/2016									
9/20/2016									
9/21/2016			7.04		7.75				
11/1/2016		7.7	7.24		7.75	F 44		7.05	0.00
11/2/2016						5.41		7.35	6.08
11/3/2016				0.00			5.04		
11/4/2016				6.29			5.61		
11/7/2016									
11/8/2016									
11/14/2016	0.00								
11/28/2016	6.23								
12/15/2016									
1/10/2017						5.37			
1/11/2017		7.53	7.3		7.66				
1/12/2017							5.71	7.49	0.10
1/13/2017				0.00					6.19
1/16/2017				6.29					
1/18/2017									
1/19/2017									
2/21/2017									
2/22/2017	6.21								
2/23/2017									

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)
2/24/2017									
3/1/2017		7.42							
3/2/2017			7.23	6.28	7.68				
3/3/2017									
3/6/2017									6.2
3/7/2017							5.66	7.43	0.2
						E 41	3.00	7.43	
3/8/2017		7.4			7.45	5.41			
4/26/2017		7.4			7.45	5.02			
4/27/2017			6.99	6.09					
4/28/2017									
5/1/2017								7.22	6.21
5/2/2017							5.65		
5/3/2017									
5/5/2017									
5/8/2017	6.12								
5/26/2017									
6/27/2017			6.87	6.21			5.7	7.32	
6/28/2017		7.5			7.65				
6/29/2017									6.21
6/30/2017						5.39			
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017	0.00								
7/17/2017	6.03								
10/3/2017			6.81	5.98			5.79	7.48	
10/4/2017		7.45			7.49				
10/5/2017						5.49			6.16
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	6.12								
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018	6.13								
2/20/2018									
3/27/2018				6.25		5.47			
3/28/2018		7.74		0.20	7.91	0.47			
3/29/2018		7.74	7.38		7.51		5.63	7.02	6.09
3/30/2018			7.50				5.00	7.02	0.00
4/2/2018									
4/3/2018			7.40						
6/5/2018			7.16						
6/6/2018				6.17				7.43	
6/7/2018					7.69		5.63		6.12
6/8/2018		7.64				5.45			
6/11/2018									
6/12/2018									
6/13/2018									

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)
6/28/2018									
8/6/2018	6.01								
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018							5.63	7.13	5.84
10/1/2018		7.47	6.8	5.9	7.39	5.39	0.00	70	0.01
10/2/2018		7.47	0.0	5.5	7.55	3.33			
10/3/2018									
2/25/2019	6.51								
	0.51					E 46			
2/26/2019		7.54	C 0.4	F.0	7.55	5.46			
2/27/2019		7.54	6.84	5.8	7.55		5.75	7.40	0.40
3/4/2019							5.75	7.46	6.18
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019			6.99	6.15					
3/29/2019						5.34			
4/1/2019		7.74			7.87				
4/2/2019									
4/3/2019							5.63	7.11	6.43
6/12/2019	6.3								
8/19/2019	6.23								
8/20/2019									
8/21/2019									
9/24/2019			7.07	6.23			5.6	6.93	
9/25/2019		7.47			7.64	5.19			6.2
9/26/2019									
10/8/2019	6.28								
10/9/2019									
2/10/2020			7.2	6.1					
2/11/2020		7.09							
2/12/2020					7.83	5.48	5.83	7.52	6.15
2/13/2020									
3/17/2020	6.14								
3/18/2020				6.19		5.38			
3/19/2020		7.31	7.03		7.65				
3/20/2020		7.01	7.00		7.00				
3/24/2020							5.81	7.34	
3/25/2020							3.01	7.54	6.26
	6.24								0.20
5/6/2020	6.24								
8/26/2020	5.67								
8/27/2020	F 70						F 00	7.10	5.0
9/22/2020	5.78	7.07	7.45	0.04	7.57		5.99	7.19	5.8
9/23/2020		7.37	7.15	6.01	7.57				
9/24/2020									
9/25/2020						5.44			
2/8/2021							5.67		
2/9/2021									6.06
2/10/2021		7.58			7.81	5.35			

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)
2/11/2021									
2/12/2021			7.14	6.21					
3/1/2021									
3/2/2021	5.42					5.49	5.63	7.15	
3/3/2021		8.23	7.2	5.38	8.39				6.21
3/4/2021									
8/19/2021			6.32	6.38	5.34	7.32			
8/20/2021	5.86								
8/26/2021							5.51	7.16	5.82
8/27/2021		7.39							
9/1/2021									
9/3/2021									
2/8/2022	5.83								
2/9/2022		7.66	7.12	6.24	7.97				
2/10/2022						4.5	5.14	6.99	
2/11/2022									5.95

	YGWA-30I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-27I	YGWC-27S	YGWC-26I
8/27/2008									
3/3/2009									
11/18/2009									
3/3/2010									
3/10/2011									
9/8/2011									
3/5/2012									
9/10/2012									
2/6/2013									
8/12/2013									
2/5/2014									
8/3/2015									
2/16/2016									
6/1/2016									
	E 7E								
6/2/2016	5.75								
6/6/2016		6.17	5.71						
6/7/2016				5.62	5.77	6.1			
6/8/2016							6.32	6.24	5.85
6/9/2016									
7/25/2016	5.82								
7/26/2016									
7/27/2016		6.14	5.46	5.59	5.79				
7/28/2016						6.12			
8/1/2016							6.34	6.12	5.83
8/2/2016									
8/30/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016				5.58					
9/19/2016	5.78 (D)	6.04	5.59		5.73	6.12			
9/20/2016							6.36	6.3	5.89
9/21/2016									
11/1/2016	5.62								
11/2/2016					5.67				
11/3/2016		5.97	5.39	5.59		6.07			
11/4/2016									
11/7/2016							6.3	6.25	5.91
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017		6.05	5.48	5.59					
1/12/2017									
1/13/2017					5.79	6.41			
1/16/2017	5.72								
1/18/2017							6.31		5.84
1/19/2017								6.2	
2/21/2017	5.67								5.79
2/22/2017								6.14	
2/23/2017							6.18		

	YGWA-30I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-27I	YGWC-27S	YGWC-26I
2/24/2017									
3/1/2017		5.94	5.41						
3/2/2017				5.54					
3/3/2017									
3/6/2017					5.63	6.34			
3/7/2017									
3/8/2017									
4/26/2017	5.56	5.99	5.4		5.66	6.32			
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				5.47					
5/3/2017				0.47					
5/5/2017									
5/8/2017							6.24	6.11	5.84
5/26/2017							0.24	0.11	3.04
6/27/2017									
		6	E 26						
6/28/2017		6	5.36	F F0	F 0F	6.47			
6/29/2017	F 70			5.56	5.85	6.47	0.01	0.17	
6/30/2017	5.72						6.21	6.17	
7/5/2017									
7/7/2017									
7/10/2017									5.92
7/11/2017									
7/17/2017									
10/3/2017						6.56			
10/4/2017	5.87		5.32	5.57	5.83				
10/5/2017		6.11							
10/6/2017								6.13	
10/9/2017							6.26		
10/10/2017									5.84
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
3/27/2018	5.83								
3/28/2018		6.1	5.34	5.59					
3/29/2018					5.93	6.75	6.36	6.25	
3/30/2018									6.19
4/2/2018									
4/3/2018									
6/5/2018						6.09			
6/6/2018					5.86				
6/7/2018		5.98							
6/8/2018									
6/11/2018	5.69		5.28	5.58					
6/12/2018								6.22	
6/13/2018							6.28		5.82

	YGWA-30I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-27I	YGWC-27S	YGWC-26I
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018		5.81	4.86	5.59	5.84	6.67			
9/26/2018									
10/1/2018									
10/2/2018	5.39						5.9	5.99	5.81
10/3/2018									
2/25/2019									
2/26/2019	5.77								
2/27/2019							6.31	6.26	5.79
3/4/2019									
3/5/2019			5.26	5.48	6.07	7.22			
3/6/2019		5.99							
3/26/2019		0.00							
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019	5.62						6.43	6.4	
4/2/2019	3.02			5.74		6.94	0.43	0.4	5.87
4/3/2019		6.29	5.47	3.74	5.71	0.54			3.07
6/12/2019		0.23	5.47		5.71				
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019						6.87			
	F 60			F 40	E 96	0.87			E 70
9/25/2019	5.69	6.04	F 2	5.49	5.86		6.3	6.22	5.79
9/26/2019 10/8/2019		6.04	5.2				6.3	6.22	
10/8/2019									
2/10/2020									
2/10/2020		6.07	5.3	5.58					
2/11/2020	5.8	0.07	5.5	5.56	6	7.13			
2/12/2020	5.0				O .	7.13	6.4	6.31	5.93
3/17/2020							0.4	0.51	5.95
3/17/2020									
3/19/2020	6								
3/20/2020	O						6.32	6.18	5.94
		E 00	F 22	E E 7	E 96	6.25	0.32	0.16	5.94
3/24/2020		5.98	5.33	5.57	5.86	6.35			
3/25/2020									
5/6/2020									
8/26/2020									
8/27/2020									
9/22/2020		6.01	F 20	E E0					
9/23/2020	F 67	6.01	5.29	5.58	5.0	0.7	0.00	0.07	F 00
9/24/2020	5.67				5.8	6.7	6.36	6.27	5.86
9/25/2020									
2/8/2021		6.10	E 42		F 96	6.05			
2/9/2021		6.12	5.43		5.86	6.95	6.20	6.21	E 06
2/10/2021							6.29	6.21	5.96

	YGWA-30I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-27I	YGWC-27S	YGWC-26I
2/11/2021	5.73								
2/12/2021									
3/1/2021	5.78								
3/2/2021									
3/3/2021		5.89	5.31	5.52	5.89		6.43	6.35	5.93
3/4/2021						6.8			
8/19/2021									
8/20/2021							6.17	6.18	5.78
8/26/2021			4.4						
8/27/2021		5.4		5.27	5.57				
9/1/2021						6.65			
9/3/2021									
2/8/2022								6.22	
2/9/2022		5.98	5.28	5.53	5.91	6.84			
2/10/2022							6.23		5.84
2/11/2022	5.59								

	YGWC-26S	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	
8/27/2008					- (-9)	(-3)	(-9/	(-3)	
3/3/2009									
11/18/2009									
3/3/2010									
3/10/2011									
9/8/2011									
3/5/2012									
9/10/2012									
2/6/2013									
8/12/2013									
2/5/2014									
8/3/2015									
2/16/2016									
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016	5.24								
6/9/2016		6.39	6.19	6.42					
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016	5.17								
8/2/2016		6.35	6.17	6.43					
8/30/2016		0.00	0.17	0.10	5.75				
9/13/2016					5.75	7.41			
9/14/2016									
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016	5.35								
9/21/2016		6.39	6.2	6.45					
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016						7.12			
11/7/2016	5.35	6.36	6.1						
11/8/2016				6.37					
11/14/2016					5.59				
11/28/2016									
12/15/2016						7.24			
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017						7.24			
1/18/2017	5.2	6.23		6.27					
1/19/2017			6.22						
2/21/2017	5.14	6.42							
2/22/2017			6.12	6.35					
2/23/2017									

2/24/2017	YGWC-26S	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg) 5.49	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/1/2017					J. 4 3			
3/2/2017								
						7.00		
3/3/2017						7.22		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						7.21		
5/1/2017								
5/2/2017								
5/3/2017	5.28							
5/5/2017		6.4		6.36				
5/8/2017			6.11		5.58			
5/26/2017						7.13		
6/27/2017								
6/28/2017						7.06		
6/29/2017								
6/30/2017								
7/5/2017			6.17	6.4				
7/7/2017		6.46						
7/10/2017	5.25							
7/11/2017					5.58			
7/17/2017								
10/3/2017						6.99		
10/4/2017								
10/5/2017			6.17	6.43				
10/6/2017								
10/9/2017		6.37						
10/10/2017	5.17				5.49			
10/11/2017							6.4	
10/12/2017								5.43
10/16/2017								
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								
3/28/2018						7.3		
3/29/2018			6.09					
3/30/2018	5.19	6.35		6.39				
4/2/2018					6.3 (o)			
4/3/2018					()		6.87	5.84
6/5/2018								
6/6/2018								
6/7/2018						7.29		
6/8/2018						0		
6/11/2018			6.17					
6/12/2018		6.47	#::f	6.42				
6/13/2018	5.12	· · · ·		V				
5. 15.2010	J							

	YGWC-26S	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/28/2018							6.18	5.24
8/6/2018								
8/7/2018							6.08	5.18
9/19/2018					5.48			
9/24/2018							5.81	5.14
9/25/2018								
9/26/2018								
10/1/2018						7.07		
10/2/2018	4.95		6.17					
10/3/2018		6.01		6.21				
2/25/2019								
2/26/2019								
2/27/2019	5	6.38	6.19	6.32		7.27		
3/4/2019								
3/5/2019								
3/6/2019								
3/26/2019								5.3
3/27/2019					5.83		5.84	
3/28/2019								
3/29/2019						7.06		
4/1/2019			6.03	6.3				
4/2/2019	5.13	6.7						
4/3/2019								
6/12/2019								
8/19/2019								
8/20/2019					5.58			
8/21/2019							5.96	5.26
9/24/2019						7.01		
9/25/2019	5.24		6.21					
9/26/2019		6.47		6.43				
10/8/2019					5.59			
10/9/2019							5.81	5.22
2/10/2020								
2/11/2020						7.38		
2/12/2020							5.97	5.3
2/13/2020	5.29	6.53	6.32	6.49				
3/17/2020					5.57			
3/18/2020								
3/19/2020	5.46	6.98		7.01		7.22		
3/20/2020			6.17					
3/24/2020								5.29
3/25/2020							5.78	
5/6/2020								
8/26/2020								
8/27/2020					4.88			
9/22/2020					5.46			
9/23/2020						7.22		
9/24/2020	5.46	6.53	6.2	6.41			5.7	5.43
9/25/2020								
2/8/2021								
2/9/2021								
2/10/2021	5.18					7.29	5.8	5.19

	YGWC-26S	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/11/2021				6.57				
2/12/2021		6.6	6.24					
3/1/2021					5.48			
3/2/2021	5.38							
3/3/2021		6.61	6.27	6.51		7.92		
3/4/2021							5.54	5.23
8/19/2021	5.12				5.5			
8/20/2021		6.38	6.07	6.23				
8/26/2021							6.91	
8/27/2021						7.14		
9/1/2021								
9/3/2021								4.75
2/8/2022		6.3	5.88	6.34	5.4		5.78	5.26
2/9/2022						5.89		
2/10/2022	5.31							
2/11/2022								

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
6/1/2016	12	4.2	5						
6/2/2016				6.6	8	20	5.8	1.9	1.3
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	8.4	3.7							1.2
7/26/2016			5.4	6.1	7.7	20	6.7	1.8	
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016		5.2	2.9						
9/14/2016	8.6				7.5	19		1.8	
9/15/2016	0.0			6.1	7.0		6		
9/16/2016				0.1			· ·		
9/19/2016									1.2
9/20/2016									1.2
9/21/2016									
11/1/2016	8.9		3.9				4.9		1.3
11/2/2016	0.5		5.5	6.3	8.2	20	4.5		1.0
11/3/2016				0.5	0.2	20			
11/4/2016		5						2	
11/7/2016		3						2	
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				5.9					
1/11/2017	8.6		3.7	5.5			4.5		
1/11/2017	0.0		3.7			19	4.5	1.9	
1/13/2017					8.1	19		1.9	
1/16/2017		7.9			0.1				<1
1/18/2017		7.5							~1
1/19/2017									
2/21/2017									1.4
2/22/2017									1.4
2/23/2017									
2/23/2017									
3/1/2017	9.3								
3/2/2017	9.5	7.4	4.6				4.4		
3/3/2017		7.4	4.0				4.4		
3/6/2017					8				
3/7/2017					J	20		2.1	
3/8/2017				7		20		2.1	
	11			7			5.1		1.4
4/26/2017 4/27/2017	11	7.4	5.2	,			J. I		1.4
		7.4	J.Z						
4/28/2017					9.4	20			
5/1/2017 5/2/2017					8.4	20		2	
51212011								۷.	

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		6.4	5.9			18		2.1	
6/28/2017	12	0	0.0				5.4		
6/29/2017	12				9.2		0.4		
6/30/2017				6.5	5.2				<1
				0.5					
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		5.9	6.6			16		2.3	
10/4/2017	12						6.2		1.4
10/5/2017				7.9	9.6				
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018			6.4						
6/6/2018		4.4	0.4			8.3			
		4.4			0.5	6.3	6.7	2	
6/7/2018	0.0			2.4	8.5		6.7	2	
6/8/2018	9.6			6.4					
6/11/2018									1.1
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					10.2	7.9		2.3	
10/1/2018	9.1	4	5.6	6.8			7.1		
10/2/2018									1
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		4.3	8						
3/29/2019				7.3					
4/1/2019	8.5						7.2		0.96 (J)
									. ,

		YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
4/2/2	2019									
4/3/2	2019					8.5	7		2.1	
6/12	/2019									
9/24	/2019		4.3	5.3			5.5		2.4	
9/25	/2019	13.8			6.6	8.5		7		0.81 (J)
9/26	/2019									
10/8	/2019									
10/9	/2019									
3/17	/2020									
3/18	/2020		5.3		8.1					
3/19	/2020	12.9		10				9		1.6
3/20	/2020									
3/24	/2020						5.9		2.1	
3/25	/2020					8.8				
9/22	/2020					8.2	5.5		2.1	
9/23	/2020	16.8	3.4	8.1				6.9		
9/24	/2020									0.69 (J)
9/25	/2020				6.1					
3/1/2	2021									0.88 (J)
3/2/2	2021				6		2.6		2.3	
3/3/2	2021	9.6	4.4	9		7.8		7		
3/4/2	2021									
8/19	/2021		4.9	8.9	6.7			7.5		1
8/20	/2021									
8/26	/2021					8.5	6		2.4	
8/27	/2021	18.2								
9/1/2	2021									
9/3/2	2021									
2/8/2										
2/9/2		16	5.1	9.3				7.2		
	/2022				6.2		4.9		2.4	
2/11	/2022					7.7				2.8

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	1.8	1.2							
6/7/2016			4.4	5.2	<1				
6/8/2016						26	81	110	3.2
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	1.9	1.7	4.7		0.08 (J)				
7/28/2016				5.1	(5)				
8/1/2016						27	75	96	3.6
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	1.7		4.8						
9/19/2016	1.7	1 0	4.0	4.8	0.08 (J)				
9/20/2016		1.8		4.0	0.08 (3)	21	78	100	5.6
9/21/2016						21	76	100	3.0
11/1/2016					0.1 (1)				
11/2/2016	1.0	0.00 (1)	F 2	_	0.1 (J)				
11/3/2016	1.9	0.69 (J)	5.3	5					
11/4/2016						0.4	0.4	100	F.4
11/7/2016						24	81	100	5.4
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	1.7	<1	5.2						
1/12/2017									
1/13/2017				4.3	<1				
1/16/2017									
1/18/2017							95	100	3.5
1/19/2017						25			
2/21/2017							80	96	
2/22/2017						24			
2/23/2017									4.9
2/24/2017									
3/1/2017	<1	1.8	_						
3/2/2017			5						
3/3/2017									
3/6/2017				4.5	<1				
3/7/2017									
3/8/2017									
4/26/2017	1.9	1.6		4.9	<1				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			5						

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
5/3/2017								100	
5/5/2017									
5/8/2017						23	84		3.9
5/26/2017									
6/27/2017									
6/28/2017	<1	<1							
6/29/2017			5.2	5.5	<1				
6/30/2017			0.2	0.0	•	23			5
7/5/2017						23			J
7/7/2017									
7/10/2017							84	100	
							04	100	
7/11/2017									
7/17/2017				F.0					
10/3/2017	4 =		5.0	5.8					
10/4/2017	1.7		5.3		<1				
10/5/2017		1.6							
10/6/2017						23			
10/9/2017									5.1
10/10/2017							82	97	
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
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						
6/12/2018						18.1			
6/13/2018							76.5	93.3	6.1
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	1.5	1	6.1	7	0.13 (J)				
9/26/2018	1.0		0.1	•	0.10 (0)				
10/1/2018						20.2	83.9	99	6.1
10/2/2018						ZU.Z	ს ა.შ	99	U. I
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019						18.3			4.1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
4/2/2019			5.1	3.8			77.6	94.5	
4/3/2019	1.3	0.82 (J)			0.12 (J)				
6/12/2019									
9/24/2019				1					
9/25/2019			5.5		<1		80.1	97	
9/26/2019	1	0.64 (J)				18.2			4.2
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020								99.4	
3/20/2020						21.1	84.7		5.2
3/24/2020	0.99 (J)	<1	5.4	3	<1				
3/25/2020									
9/22/2020									
9/23/2020	1.1	0.53 (J)	5.1						
9/24/2020				3.6	<1	16.6	85.6	92.3	3
9/25/2020									
3/1/2021									
3/2/2021								92.7	
3/3/2021	1	<1	5.2		<1	451	89.3		2.6
3/4/2021				4.5					
8/19/2021								86.5	
8/20/2021						18	84		2.9
8/26/2021	1.2								
8/27/2021		0.59 (J)	5.3		<1				
9/1/2021				5					
9/3/2021									
2/8/2022						16.3			
2/9/2022	1.1	0.51 (J)	4.8	3.9	<1				
2/10/2022		.,					81.8	86.5	2.4
2/11/2022									

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	5.2	33	8.7					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	4.5	32	7.5					
8/30/2016	4.5	32	7.5	160				
8/31/2016				100	29			
9/13/2016					25			
9/14/2016						9.4		
9/15/2016						3.4		
9/16/2016								
9/19/2016								
9/20/2016	(25)	00	•					
9/21/2016	<1 (*)	32	8					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						13		
11/7/2016	4.3	33						
11/8/2016			8.3					
11/14/2016				150				
11/28/2016					36			
12/15/2016						1.8		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						11		
1/18/2017	2.7		8					
1/19/2017		32						
2/21/2017	3							
2/22/2017		31	8.2		43			
2/23/2017								
2/24/2017				120				
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								

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	<1 (*)		<1 (*)					
5/8/2017		32		120	60			
5/26/2017						12		
6/27/2017								
6/28/2017						11		
6/29/2017								
6/30/2017								
7/5/2017		31	8.1					
7/7/2017	2.7							
7/10/2017								
7/11/2017				110				
7/17/2017					63			
10/3/2017					00	7.9		
10/4/2017						7.0		
10/5/2017		31	8.6					
10/6/2017		31	0.0					
10/9/2017	2.9							
				93				
10/10/2017				93			20	
10/11/2017							20	17
10/12/2017								17
10/16/2017					62		0.4	
11/20/2017	,						24	71
1/10/2018								66
1/11/2018							23	
2/19/2018					64.6			57.2
2/20/2018							20.6	
4/2/2018				88.8				
4/3/2018							24.5	49.4
6/5/2018								
6/6/2018								
6/7/2018						8.8		
6/8/2018								
6/11/2018		30.6						
6/12/2018	2.9		8.2					
6/13/2018								
6/28/2018							22	43.8
8/6/2018					42.1			
8/7/2018							20.7	40.5
9/19/2018				75				
9/24/2018							21.2	39.7
9/25/2018								
9/26/2018								
10/1/2018						9.1		
10/2/2018		30.8						
10/3/2018	2.1		8					
2/25/2019					42.1			
3/26/2019								34.3
3/27/2019				65.9			17.7	
3/28/2019								
3/29/2019						9		
4/1/2019		30.4	8.2					

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019	2.4							
4/3/2019								
6/12/2019					83.4			
9/24/2019						9.1		
9/25/2019		30						
9/26/2019	1.6		7.9					
10/8/2019				52.3	128			
10/9/2019							15	27.9
3/17/2020				71.6	98.6			
3/18/2020								
3/19/2020	1.7		9.1			12.4		
3/20/2020		33						
3/24/2020								25.2
3/25/2020							14.3	
9/22/2020				51.5	145			
9/23/2020						11.8		
9/24/2020	0.99 (J)	26.2	7.2				11.7	22.9
9/25/2020								
3/1/2021				51.6				
3/2/2021					156			
3/3/2021	4.9	26.6	8.6			10.6		
3/4/2021							12	21.5
8/19/2021				52.6				
8/20/2021	5.4	24.7	8.9		121			
8/26/2021							19.2	
8/27/2021						16.7		
9/1/2021								
9/3/2021								21.3
2/8/2022	10.5	22.9	8.1	50.9	107	10	14.6	17.9
2/9/2022						18		
2/10/2022								
2/11/2022								

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
6/1/2016	150	54	120						
6/2/2016				46	96	160	130	66	36
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	135	48							50
7/26/2016			94	54	92	177	141	78	
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016		67	105						
9/14/2016	127				102	187		73	
9/15/2016				54			153		
9/16/2016									
9/19/2016									35
9/20/2016									35
9/21/2016									
	75		44				92		- 2F
11/1/2016	75		44	74	445	101	92		<25
11/2/2016				71	115	181			
11/3/2016									
11/4/2016		60						75	
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				45					
1/11/2017	148		107				159		
1/12/2017						202		86	
1/13/2017					67				
1/16/2017		65							47
1/18/2017									
1/19/2017									
2/21/2017									<25
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	182								
3/2/2017		61	98				117		
3/3/2017									
3/6/2017					159				
3/7/2017						257		108	
3/8/2017				178					
4/26/2017	92			52			181		55
4/27/2017		31	116						
4/28/2017									
5/1/2017					107	165			
5/2/2017								103	

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		42	89			189		73	
	126	42	09			169	160	73	
6/28/2017	126						169		
6/29/2017					79				
6/30/2017				45					42
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		58	119			170		89	
10/4/2017	147						141		31
10/5/2017				40	95				
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018			127						
6/6/2018		96				151			
6/7/2018					90		95	142	
6/8/2018	158			114					
6/11/2018									59
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					116	144		86	
10/1/2018	138	60	117	50			165		
10/2/2018									57
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		87	87						
3/29/2019		O,	O,	63					
4/1/2019	19 (J)			00			149		54
7/1/2013	13 (3)						1+3		∪-

		YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
4/	2/2019									
4/	3/2019					111	142		83	
6/	12/2019									
9/	24/2019		54	124			129		79	
9/	25/2019	159			64	117		157		51
9/	26/2019									
10)/8/2019									
10)/9/2019									
3/	17/2020									
3/	18/2020		35		57					
3/	19/2020	148		116				146		47
3/	20/2020									
3/2	24/2020						139		68	
3/2	25/2020					146				
9/	22/2020					83	104		75	
9/	23/2020	155	15	108				157		
9/	24/2020									51
9/	25/2020				54					
3/	1/2021									23
3/	2/2021				67		52		67	
3/	3/2021	111	39	99		80		137		
3/-	4/2021									
	19/2021		44	105	54			144		50
8/	20/2021									
	26/2021					93	123		86	
	27/2021	155								
	1/2021									
	3/2021									
	8/2022									
	9/2022	145	57	105				154		
	10/2022				56		127		77	
2/	11/2022					102				66

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	58	120							
6/7/2016			28	60	38				
6/8/2016						210	220	200	190
6/9/2016						2.0	220	200	
7/25/2016									
7/26/2016									
	25	0.4	7.4		7.4				
7/27/2016	35	94	74	0.1	74				
7/28/2016				81					
8/1/2016						209	211	191	191
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	35		67						
9/19/2016		92		68	45				
9/20/2016						224	217	213	205
9/21/2016									
11/1/2016									
11/2/2016					53				
11/3/2016	48	104	41	61					
11/4/2016									
11/7/2016						291	301	284	264
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017	0.5	100	104						
1/11/2017	95	133	104						
1/12/2017									
1/13/2017				76	46				
1/16/2017									
1/18/2017							265 (D)	158 (D)	167 (D)
1/19/2017						215 (D)			
2/21/2017							158	137	
2/22/2017						262			
2/23/2017									253
2/24/2017									
3/1/2017	79	119							
3/2/2017			77						
3/3/2017									
3/6/2017				167	164				
3/7/2017									
3/8/2017									
4/26/2017	36	162		50	34				
4/27/2017	-								
4/28/2017									
5/1/2017									
5/2/2017			142						
51212011			174						

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
5/3/2017								269	
5/5/2017									
5/8/2017						187	207		174
5/26/2017									
6/27/2017									
6/28/2017	45	98							
6/29/2017			53	94	68				
6/30/2017						209			193
7/5/2017									
7/7/2017									
7/10/2017							219	183	
7/11/2017									
7/17/2017									
10/3/2017				149					
10/4/2017	45		61		54				
10/5/2017		104							
10/6/2017						183			
10/9/2017									185
10/10/2017							194	179	
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018				109					
6/6/2018					79				
6/7/2018		68							
6/8/2018									
6/11/2018	74		70						
6/12/2018						208			
6/13/2018							228	196	219
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	63	109	86	122	73				
9/26/2018									
10/1/2018									
10/2/2018						206	227	191	227
10/3/2018								-	
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019						221			198
2010						 ·			

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
4/2/2019			72	134			223	224	
4/3/2019	63	89			57				
6/12/2019									
9/24/2019				157					
9/25/2019			81		75		225	190	
9/26/2019	72	126				225			198
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020								194	
3/20/2020						182	211		195
3/24/2020	59	91	71	117	76				
3/25/2020									
9/22/2020									
9/23/2020	81	103	99						
9/24/2020				113	69	185	212	171	186
9/25/2020									
3/1/2021									
3/2/2021								154	
3/3/2021	37	95	57		53	178	205		173
3/4/2021				110					
8/19/2021								176	
8/20/2021						169	224		196
8/26/2021	31								
8/27/2021		112	93		67				
9/1/2021				137					
9/3/2021									
2/8/2022						159			
2/9/2022	60	103	81	131	72				
2/10/2022							207	168	190
2/11/2022									

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	210	150	240					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	202	155	226					
8/30/2016				319				
8/31/2016					209			
9/13/2016								
9/14/2016						152		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	216	138	214					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						148		
11/7/2016	399	291						
11/8/2016			229					
11/14/2016				280				
11/28/2016					102			
12/15/2016						191		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						180		
1/18/2017	215 (D)		243 (D)					
1/19/2017	2.0 (5)	145 (D)	2.0 (2)					
2/21/2017	198	. 10 (2)						
2/22/2017		185	310		164			
2/23/2017								
2/24/2017				162				
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						100		
5/1/2017								
51212011								

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	347		289					
5/8/2017		114		194	145			
5/26/2017						223		
6/27/2017								
6/28/2017						166		
6/29/2017								
6/30/2017								
7/5/2017		136	217					
7/7/2017	236							
7/10/2017								
7/11/2017				193				
7/17/2017					185			
10/3/2017						153		
10/4/2017								
10/5/2017		139	221					
10/6/2017								
10/9/2017	204							
10/10/2017				175				
10/11/2017							68	
10/12/2017								74
10/16/2017					218			
11/20/2017							139	179
1/10/2018								140
1/11/2018							153	
2/19/2018					173			119
2/20/2018					.,,		87	
4/2/2018				192				
4/3/2018							85	106
6/5/2018								
6/6/2018								
6/7/2018						146		
6/8/2018								
6/11/2018		156						
6/12/2018	243	.00	234					
6/13/2018	2.0		20.					
6/28/2018							88	112
8/6/2018					158			112
8/7/2018							89	103
9/19/2018				186				
9/24/2018				.00			82	107
9/25/2018							02	107
9/26/2018								
10/1/2018						155		
10/2/2018		154				100		
10/3/2018	237	104	232					
2/25/2019	_0,		_02		92			
3/26/2019					V.L			90
3/27/2019				170			75	50
3/28/2019				170			, ,	
3/29/2019						150		
4/1/2019		147	238			150		
7/1/2013		17/	230					

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019	<25							
4/3/2019								
6/12/2019					226			
9/24/2019						146		
9/25/2019		162						
9/26/2019	239		241					
10/8/2019				172	276			
10/9/2019							119	98
3/17/2020				165	185			
3/18/2020								
3/19/2020	202		212			148		
3/20/2020		137						
3/24/2020								84
3/25/2020							158	
9/22/2020				141	281			
9/23/2020						161		
9/24/2020	226	133	209				170	77
9/25/2020								
3/1/2021				145				
3/2/2021					296			
3/3/2021	217	110	184			138		
3/4/2021							168	57
8/19/2021				134				
8/20/2021	192	110	194		254			
8/26/2021							249	
8/27/2021						150		
9/1/2021								
9/3/2021								88
2/8/2022	216	120	206	151	283		248	93
2/9/2022						156		
2/10/2022								
2/11/2022								

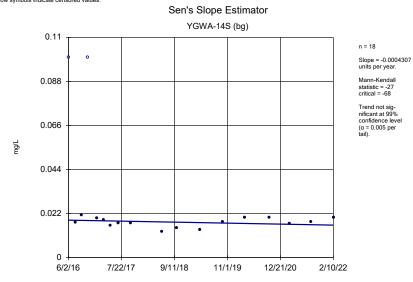
FIGURE E.

Appendix III Trend Test Summary - Significant Results

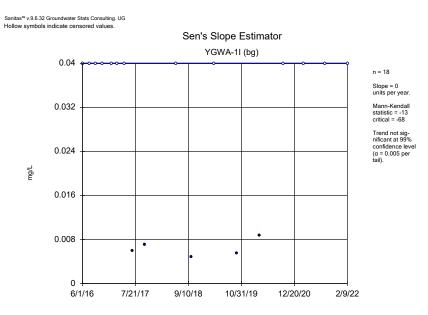
	Plant Yates	Client: Southern Company	Data: Yates	Data: Yates Ash Pond 2			2022, 12	2:53 PM				
Constituent	Well		Slope	Calc.	Critical	Sig.	<u>N</u>	%NDs	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Boron (mg/L)	YGWC-26I		-0.04006	-69	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-29I		-0.02921	-79	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)		-0.01631	-64	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)		-0.05275	-85	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)		-0.03927	-78	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26S		-0.6877	-93	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-27S		-1.358	-121	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-28I		-0.5198	-92	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)		-0.4996	-72	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg	1)	0.5046	109	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg	1)	0.1624	93	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)		-0.8339	-113	-68	Yes	18	0	n/a	n/a	0.01	NP

Appendix III Trend Test Summary - All Results

Client: Southern Company Data: Yates Ash Pond 2 Printed 3/21/2022, 12:53 PM Constituent Calc. Critical Sig. N %NDs Normality <u>Xform</u> <u>Alpha</u> Method Boron (mg/L) YGWA-14S (bg) -0.0004307 -27 -68 No 18 11.11 n/a n/a 0.01 NP Boron (mg/L) YGWA-1D (bg) 0.0003452 18 33.33 0.01 NP 22 68 No n/a n/a 0 NP Boron (mg/L) YGWA-1I (bg) -13 -68 No 18 72.22 0.01 n/a n/a Boron (mg/L) YGWA-2I (bg) 0 -10 -68 No 18 77.78 n/a n/a 0.01 NΡ Boron (mg/L) YGWA-30I (bg) -22 -68 18 83.33 0.01 NP No n/a YGWA-3D (bg) 0 -8 18 55.56 0.01 ΝP Boron (mg/L) -68 No Boron (mg/L) YGWA-3I (bg) 0 -19 -68 No 18 88.89 n/a n/a 0.01 NP Boron (mg/L) YGWC-26I -0.04006 -69 -68 Yes 18 0 n/a n/a 0.01 NP Boron (mg/L) YGWC-26S 0.01343 45 68 No 18 0 n/a n/a 0.01 NP YGWC-27I 0.06976 49 0 0.01 NP Boron (mg/L) 68 No 18 n/a n/a NP Boron (mg/L) YGWC-27S -0.03227 -34 -68 18 0 0.01 No n/a n/a YGWC-28I 0 0.01 NP Boron (mg/L) -68 18 -1 No n/a n/a Boron (mg/L) YGWC-28S 0.002972 11 No 18 0 n/a n/a 0.01 NP YGWC-29I -0.02921 Boron (mg/L) -79 Yes 18 0 n/a n/a 0.01 ΝP Boron (mg/L) YGWA-47 (bg) -0.0007235 -42 -53 No 15 0 n/a 0.01 NP n/a Boron (mg/L) YGWA-17S (bg) 0.00005921 8 68 No 18 11.11 n/a n/a 0.01 NP NP Boron (mg/L) YGWA-18I (bg) 0 -26 -68 No 18 77.78 n/a n/a 0.01 Boron (mg/L) YGWA-18S (bg) 0.0001172 18 NP 14 68 No 22.22 n/a n/a 0.01 YGWA-20S (ba) 0 -11 0.01 NP Boron (ma/L) -68 No 18 88.89 n/a n/a Boron (mg/L) YGWA-21I (bg) -46 -68 No 18 61.11 0.01 NP n/a n/a Boron (mg/L) YGWA-39 (bg) 0.007949 41 53 15 0.01 NΡ No 6.667 n/a n/a YGWA-40 (bg) -0.01631 -64 -53 15 0.01 ΝP Boron (mg/L) Yes 0 n/a Boron (mg/L) YGWA-4I (bg) 0 -5 -68 No 18 66.67 n/a n/a 0.01 NP Boron (mg/L) YGWA-5D (bg) 0.0003037 26 68 No 18 11.11 n/a 0.01 NP Boron (mg/L) YGWA-5I (ba) n -32 -68 Nο 18 61 11 n/a n/a 0.01 NP GWA-2 (bg) 0 NP Boron (mg/L) 17 16 62.5 0.01 58 No n/a n/a YGWA-14S (bg) 0.1623 47 0 0.01 NP Chloride (mg/L) 68 No 18 n/a n/a YGWA-1D (bg) -0.01968 -51 0 NP Chloride (mg/L) -68 No 18 n/a 0.01 n/a -0.02497 NP Chloride (mg/L) YGWA-1I (bg) -49 No 18 0 n/a n/a 0.01 YGWA-2I (bg) -0.03702 0 NP Chloride (mg/L) No 18 0.01 Chloride (mg/L) YGWA-30I (bg) 0 -15 -68 No 18 0 n/a n/a 0.01 NP Chloride (mg/L) YGWA-3D (bg) -0.05275 -85 -68 Yes 18 0 n/a n/a 0.01 NP Chloride (mg/L) YGWA-3I (bg) -0.03927 -78 -68 Yes 18 0 n/a n/a 0.01 NP NP Chloride (mg/L) YGWC-26I -0.4093 -64 -68 No 18 0 n/a n/a 0.01 YGWC-26S -0.6877 NP Chloride (mg/L) 18 0 -93 -68 0.01 Yes n/a n/a Chloride (mg/L) YGWC-27I 0 -17 -68 No 18 0 n/a 0.01 NΡ n/a Chloride (mg/L) YGWC-27S -121 -68 18 0 n/a 0.01 NP Yes n/a Chloride (mg/L) YGWC-28I -0.5198 -92 -68 18 0 0.01 NP n/a Chloride (mg/L) YGWC-28S -0.1931 -31 -68 No 18 0 n/a n/a 0.01 NP Chloride (mg/L) YGWA-47 (bg) -0.4996 -72 -53 Yes 15 0 n/a n/a 0.01 NP Chloride (mg/L) YGWA-17S (bg) 0.5046 109 68 Yes 18 0 n/a n/a 0.01 NP 0 NP Chloride (mg/L) YGWA-18I (bg) 0.0841 61 68 No 18 n/a n/a 0.01 0.1771 NP Chloride (ma/L) YGWA-18S (ba) 67 0 0.01 68 No 18 n/a n/a Chloride (mg/L) YGWA-20S (bg) 0.1624 93 68 0 NP 18 0.01 Yes n/a n/a YGWA-21I (bg) -0.1442 -57 0 NP Chloride (mg/L) -68 n/a n/a 0.01 Chloride (mg/L) YGWA-39 (bg) 0.6239 40 53 No 15 0 n/a n/a 0.01 ΝP Chloride (mg/L) YGWA-40 (bg) 0.2865 51 53 No 15 0 n/a 0.01 NP n/a Chloride (mg/L) YGWA-4I (bg) 0.08324 35 68 No 18 0 n/a n/a 0.01 NP YGWA-5D (bg) Chloride (mg/L) -0.8339 -113 -68 Yes 18 0 n/a n/a 0.01 NP YGWA-5I (bg) 0 Chloride (mg/L) NP 1 68 No 18 0 n/a n/a 0.01 Chloride (mg/L) GWA-2 (bg) 0.2307 58 16 0 0.01 NP 58 No n/a n/a



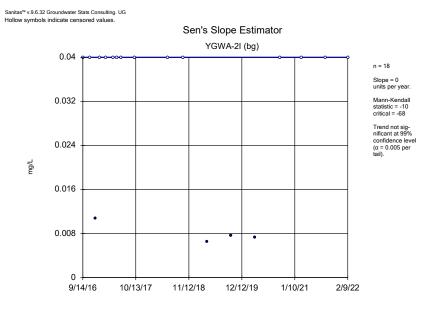
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Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

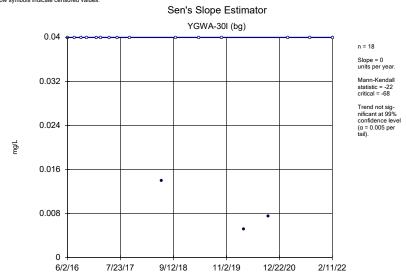


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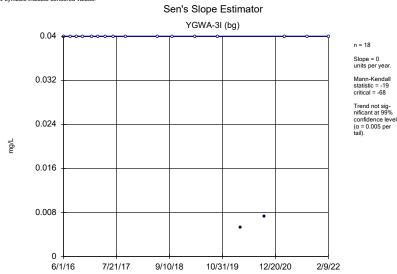
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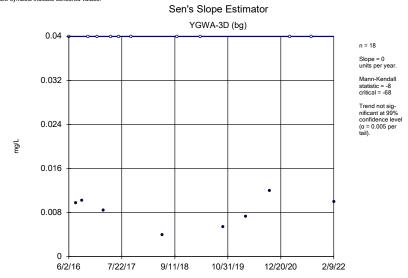
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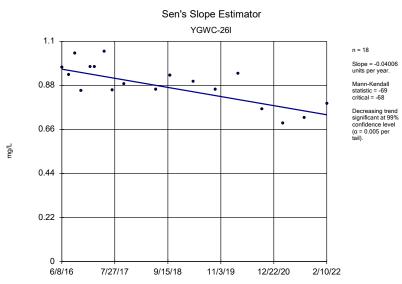


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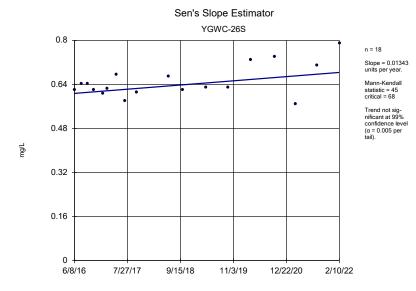
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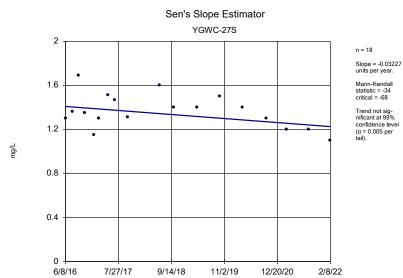
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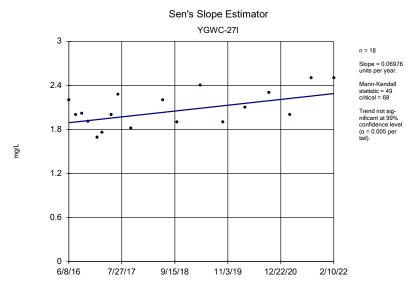
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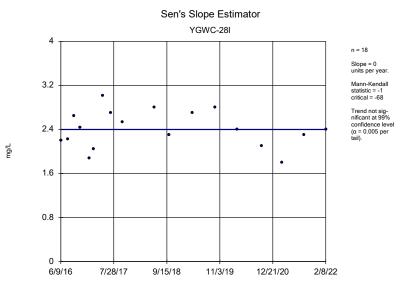
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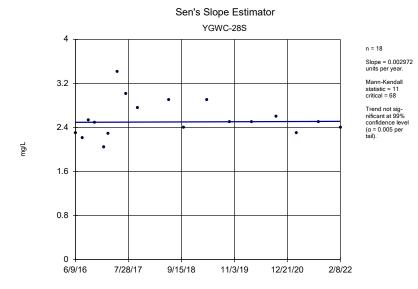
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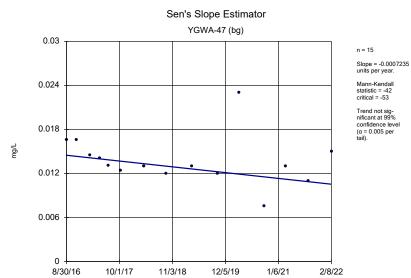
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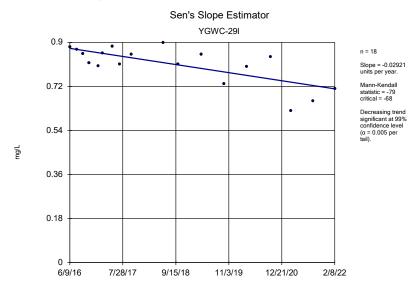
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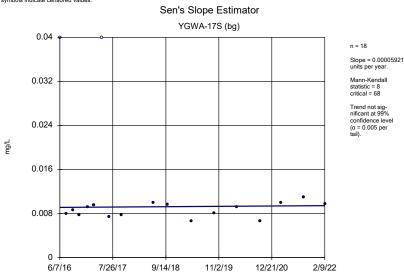


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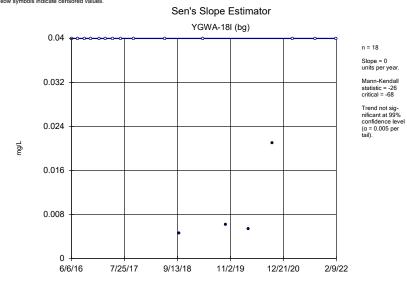


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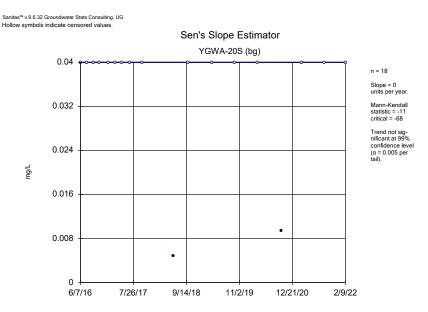
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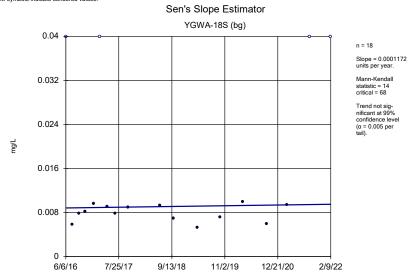
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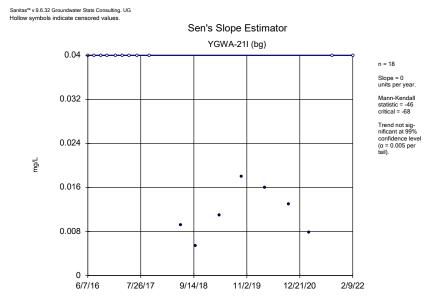
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



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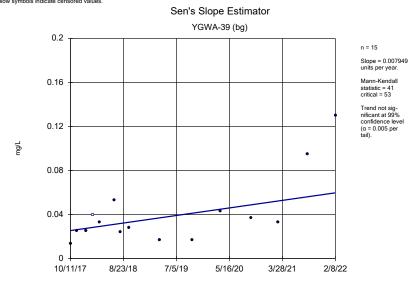


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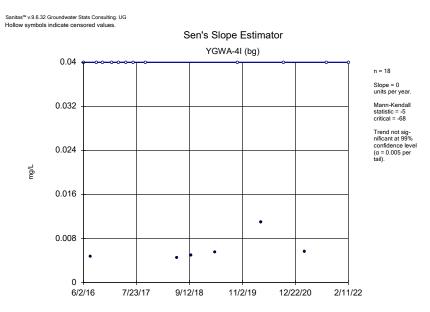
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6/2/16

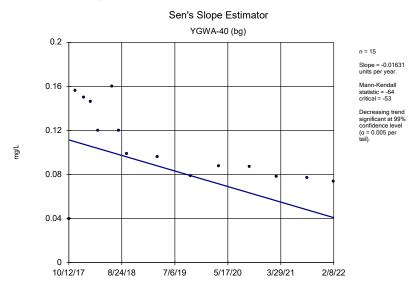
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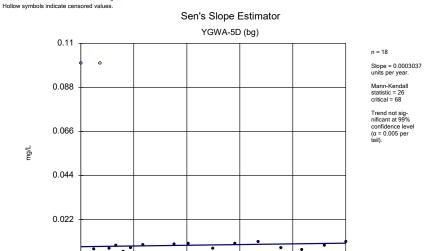
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

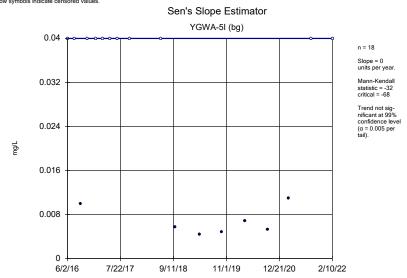
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12/21/20

2/10/22

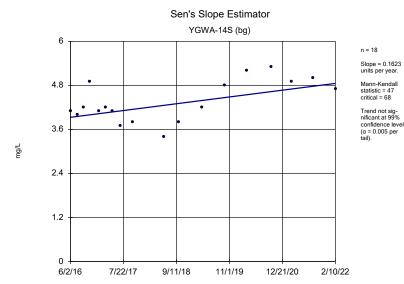
9/11/18

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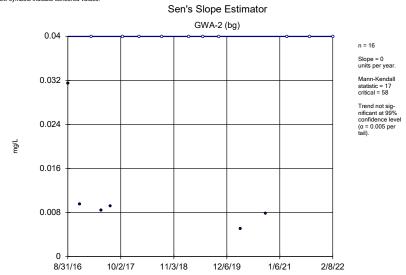
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

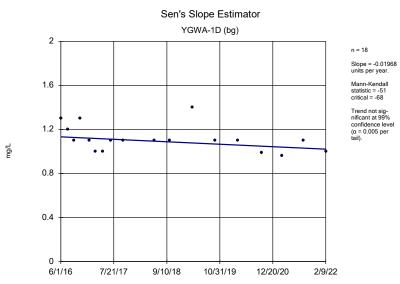


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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

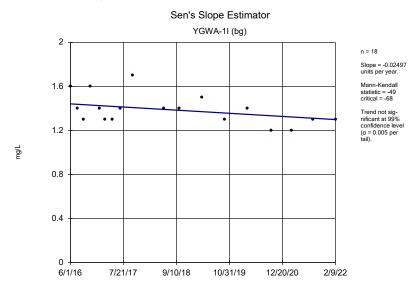
Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



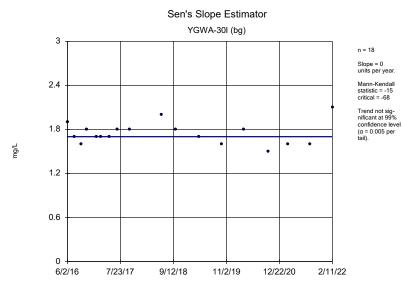
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



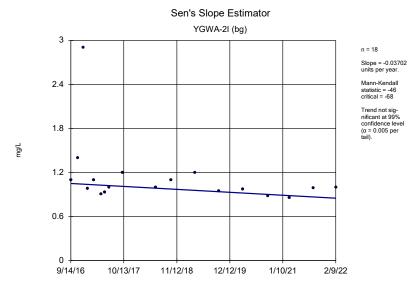
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



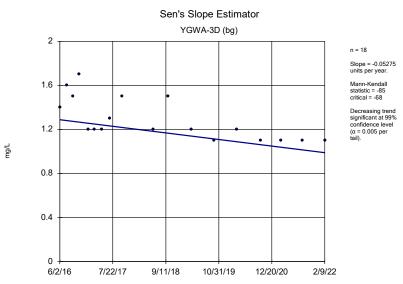
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



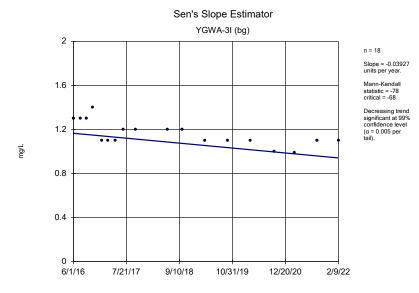
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



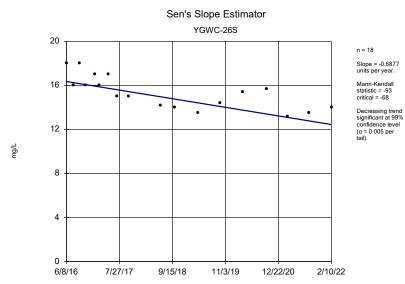
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



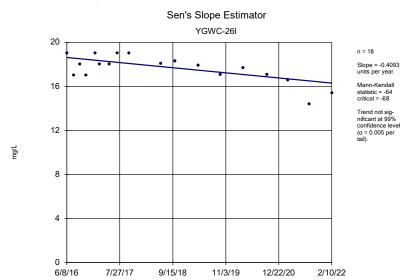
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



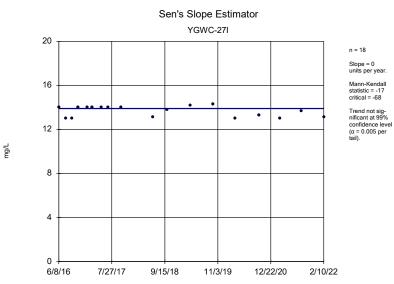
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



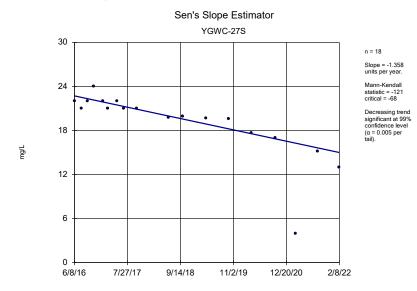
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



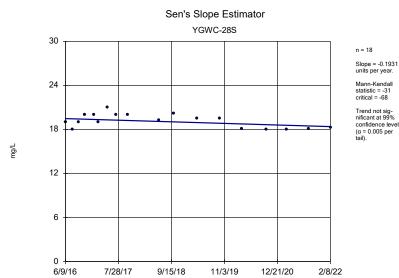
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



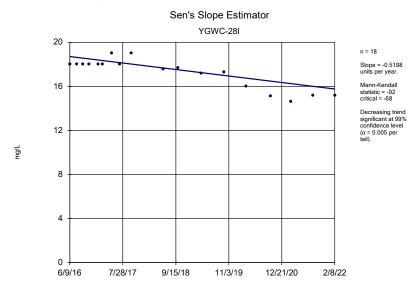
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



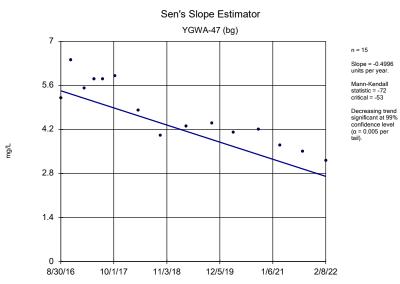
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



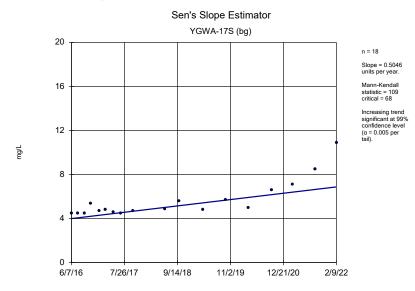
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



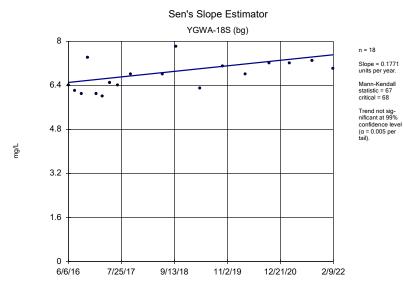
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



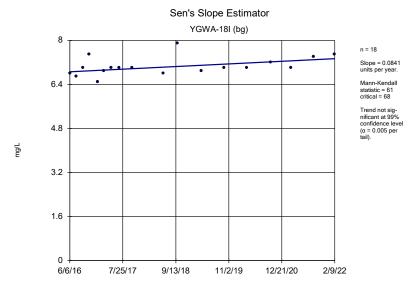
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



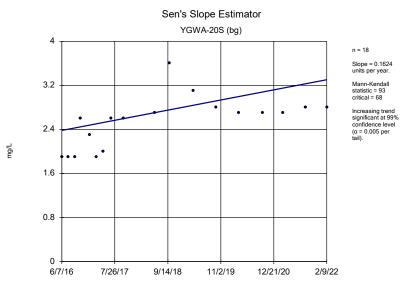
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



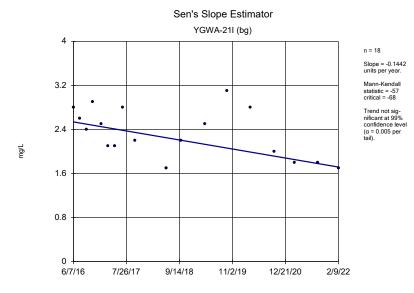
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



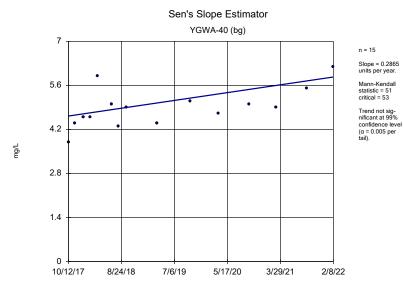
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



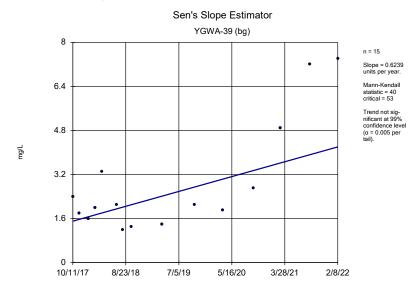
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



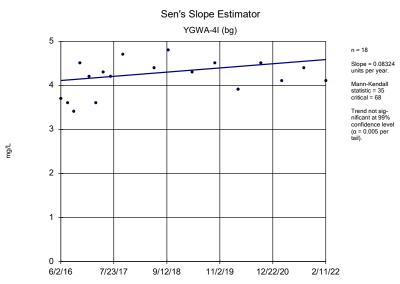
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



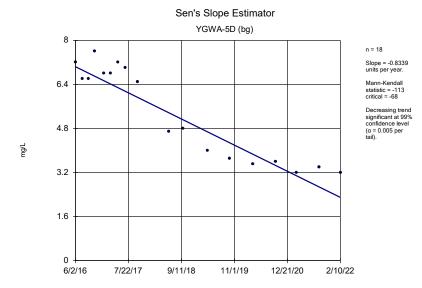
Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

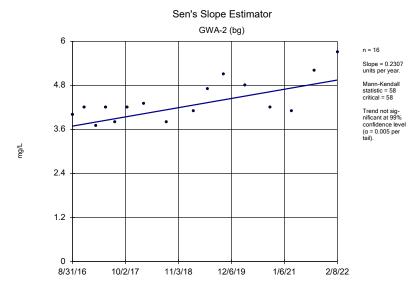


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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

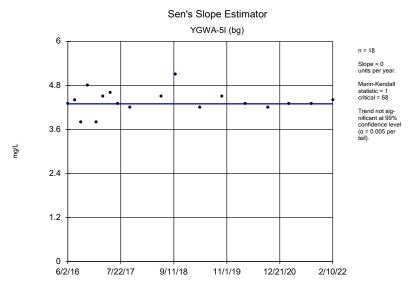


Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG



Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE F.

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/27/2022, 1:31 PM

Constituent	Well	Upper Lim	. Lower Lim	. Date	Observ	/. <u>Sig. Bg N</u>	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	n/a 353	n/a	n/a	87.25	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 401	n/a	n/a	75.06	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.071	n/a	n/a	n/a	n/a 401	n/a	n/a	2.743	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a 385	n/a	n/a	80.26	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.00063	n/a	n/a	n/a	n/a 385	n/a	n/a	95.58	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	n/a 353	n/a	n/a	79.6	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a 396	n/a	n/a	69.19	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 380	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 400	n/a	n/a	67.5	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	n/a 355	n/a	n/a	84.51	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a 380	n/a	n/a	26.32	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a 309	n/a	n/a	93.2	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	n/a 344	n/a	n/a	60.17	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 383	n/a	n/a	91.91	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a 319	n/a	n/a	96.87	n/a	n/a	NaN	NP Inter(NDs)

FIGURE G.

YATES ASH POND 2 GWPS											
CCR-Rule Background											
Constituent Name	MCL	Specified	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)		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)		0.015	0.0013	0.015							
Lithium, Total (mg/L)		0.04	0.03	0.04							
Mercury, Total (mg/L)	0.002		0.0002	0.002							
Molybdenum, Total (mg/L)		0.1	0.014	0.1							
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 or CCR Rule Specified Level

^{*}MCL = Maximum Contaminant Level

^{*}CCR = Coal Combustion Residual

^{*}GWPS = Groundwater Protection Standard

FIGURE H.

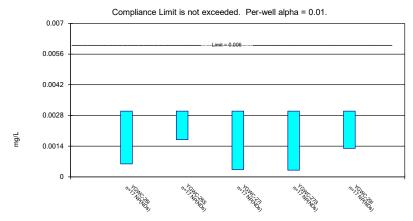
Confidence Intervals - All Results (No Significant)

Client: Southern Company Data: Yates Ash Pond 2 Printed 4/27/2022, 1:39 PM Constituent Well Compliance Std. Dev. %NDs ND Adj. Transform Alpha Upper Lim. Lower Lim. N Mean Method Antimony (mg/L) 0.003 0.006 No 17 0.002712 0.0008121 88.24 None No 0.01 NP (NDs) 0.003 YGWC-26S 0.0017 0.002841 0.0004487 0.01 NP (NDs) Antimony (mg/L) 0.006 No 17 88.24 None No Antimony (mg/L) YGWC-27I 0.003 0.00033 0.006 No 17 0.002843 0.0006476 94.12 None No 0.01 NP (NDs) Antimony (mg/L) YGWC-27S 0.003 0.0003 0.006 No 17 0.002841 0.0006548 94.12 None No 0.01 NP (NDs) YGWC-29I 0.003 0.0013 0.006 17 0.0029 NP (NDs) Antimony (mg/L) Nο 0.0004123 94 12 None Nο 0.01 Arsenic (mg/L) YGWC-26I 0.005 0.0028 0.01 No 21 0.004895 0.0004801 95.24 0.01 NP (NDs) YGWC-26S 0.005 0.0032 0.01 21 0.004914 Arsenic (mg/L) No 0.0003928 95.24 0.01 NP (NDs) None No Arsenic (mg/L) YGWC-27I 0.005 0.0006 0.01 No 21 0.003307 0.002126 57.14 None Nο 0.01 NP (NDs) Arsenic (mg/L) YGWC-27S 0.005 0.0019 0.01 No 21 0.004852 0.0006765 95.24 None No 0.01 NP (NDs) YGWC-28I 0.005 0.0021 0.01 No 21 0.004862 0.0006328 95.24 0.01 NP (NDs) Arsenic (ma/L) None No YGWC-28S 0.005 0.0007 0.01 No 21 0.00332 0.002123 57.14 NP (NDs) 0.01 0.005 0.01 No 21 0.000371 95.24 No 0.01 NP (NDs) Arsenic (mg/L) None Barium (mg/L) YGWC-26I 0.06607 0.0627 2 No 21 0.06439 0.003054 0 None No 0.01 Param. Barium (mg/L) YGWC-26S 0.02872 0.02632 2 No 21 0.02752 0.002175 0 None No 0.01 Param. Barium (mg/L) YGWC-27I 0.08 0.063 2 No 21 0.07016 0.007752 0 None No 0.01 NP (normality) 0.1033 2 Barium (mg/L) YGWC-27S 0.09001 Nο 21 0.09663 0.01201 n None Nο 0.01 Param 0.08942 Barium (mg/L) YGWC-28I 0.08354 2 No 21 0.005329 0 0.01 2 YGWC-28S 0.2217 0.1958 21 0.03757 0 Barium (mg/L) No 0.2043 x^3 0.01 Param. None 0.01 Barium (mg/L) YGWC-29I 0.0741 0.057 2 No 21 0.07251 0.03261 0 NP (normality) None No Beryllium (mg/L) YGWC-26S 0.0002 0.0001 0.004 No 19 0.0001821 0.0001199 10.53 None No 0.01 NP (normality) 0.00023 NP (normality) Beryllium (mg/L) YGWC-27I 0.00013 0.004 No 19 0.0002235 0.0001312 15.79 None No 0.01 0.0004566 0.0001301 Beryllium (mg/L) YGWC-27S 0.0005 0.00011 0.004 No 19 89.47 0.01 NP (NDs) NP (normality) Cadmium (mg/L) YGWC-28I 0.00043 0.0001 0.005 No 19 0.0002479 0.0001701 10.53 No 0.01 Cadmium (mg/L) YGWC-28S 0.0005 0.00048 0.005 No 19 0.0004989 0.000004588 94.74 None No 0.01 NP (NDs) Cadmium (mg/L) YGWC-29I 0.0002257 0.0001389 0.005 No 19 0.0002526 0.0001256 15.79 Kaplan-Meier 0.01 Param. Chromium (ma/L) YGWC-26I 0.005 0.00065 0.1 No 19 0.003392 0.002155 57.89 NP (NDs) None No 0.01 Chromium (mg/L) YGWC-26S 0.002127 0.001045 0.1 No 19 0.002578 0.001725 21.05 Kaplan-Meier In(x) 0.01 Param Chromium (mg/L) YGWC-27I 0.1 No 94.74 Kaplan-Meier No 0.01 NP (NDs) Chromium (mg/L) YGWC-27S 0.015 19 0.004655 0.003012 NP (NDs) 0.0027 0.1 No 68.42 Kaplan-Meier No 0.01 Chromium (mg/L) YGWC-28I 0.005 0.0005 0.1 No 19 0.004285 0.001697 84.21 Kaplan-Meier No 0.01 NP (NDs) Chromium (mg/L) YGWC-28S 0.005 0.0006 0.1 19 0.004294 0.001675 84.21 Kaplan-Meier No 0.01 NP (NDs) No 0.004763 Chromium (ma/L) YGWC-29I 0.005 0.0005 0.1 19 0.001032 94.74 0.01 NP (NDs) No Kaplan-Meier No 0.002343 YGWC-26S 0.002719 0.001886 0.035 21 Cobalt (mg/L) No 0.0008244 4.762 0.01 Param YGWC-27I 0.0147 0.003357 0.035 21 Cobalt (mg/L) No 0.02581 0 None In(x) 0.01 Param. Cobalt (mg/L) YGWC-27S 0.0026 0.0022 0.035 No 21 0.002448 0.0006416 4.762 None No 0.01 NP (normality) Cobalt (mg/L) YGWC-28I 0.005 0.00042 0.035 No 0.004782 0.0009994 95.24 No 0.01 NP (NDs) 0.0012 0.00091 Cobalt (mg/L) YGWC-28S 0.035 No 21 0.001378 0.001211 9.524 None No 0.01 NP (normality) Cobalt (mg/L) YGWC-29I 0.005 0.00094 0.035 No 21 0.003955 0.001918 76.19 0.01 NP (NDs) No Combined Radium 226 + 228 (pCi/L) YGWC-26I 1.066 6.92 No 5 0.01 Param. No Combined Radium 226 + 228 (pCi/L) YGWC-26S 0.8492 0.5341 21 6.92 No 0.6917 0.2857 0.01 Param. 4.762 None No Combined Radium 226 + 228 (pCi/L) YGWC-27I 3.883 2.537 6.92 No 21 3.21 1.221 0.01 0 None No Param. Combined Radium 226 + 228 (pCi/L) YGWC-27S 1.041 0.6603 6.92 No 21 0.8504 0.3446 0 0.01 None No Param. Combined Radium 226 + 228 (pCi/L) YGWC-28I 0.948 0.261 6.92 No 21 0.6556 0.3485 4.762 None No 0.01 NP (normality) Combined Radium 226 + 228 (pCi/L) YGWC-28S 0.9441 0.5386 6.92 No 21 0.7413 0.3675 4.762 0.01 Combined Radium 226 + 228 (pCi/L) YGWC-29I 6.92 21 1.094 0.6509 No 0.8723 0.4013 4.762 No 0.01 Param. Fluoride (mg/L) YGWC-26I 0.1 0.064 4 No 22 0.08409 0.02065 45.45 None No 0.01 NP (normality) Fluoride (mg/L) YGWC-26S 0.16 0.044 4 No 0.1302 0.09494 72.73 No 0.01 NP (NDs) NP (NDs) Fluoride (ma/L) YGWC-27I 0.1 0.07 4 No 22 0.09055 0.02574 54.55 None No 0.01 Fluoride (mg/L) YGWC-27S 0.1919 0.09792 4 No 22 0.1575 0.1014 18.18 Kaplan-Meier sqrt(x) 0.01 Param. Fluoride (mg/L) YGWC-28I No 0.07937 22.73 No 0.01 NP (normality) 22 Fluoride (mg/L) YGWC-28S 0.2565 0.1516 No 0.204 0.09764 9.091 None No 0.01 Param. YGWC-29I 0.08932 Fluoride (mg/L) 0.05868 4 No 22 0.08573 0.03079 31.82 Kaplan-Meier 0.01 YGWC-26I 0.001 0.000059 0.015 17 0.0008888 0.0003138 NP (NDs) Lead (mg/L) No 88.24 None 0.01 No Lead (mg/L) YGWC-26S 0.001 0.00008 0.015 No 17 0.0007265 0.0004369 70.59 None No 0.01 NP (NDs) Lead (mg/L) YGWC-27S 0.001 0.015 No 0.0007881 0.0003597 64.71 0.01 NP (NDs) YGWC-28S 0.001 0.00007 0.015 No 17 0.0007244 0.0004402 70.59 0.01 NP (NDs) Lead (mg/L) None Nο Lead (mg/L) YGWC-29I 0.001 0.00016 0.015 No 0.0008424 0.0003513 82.35 None Nο 0.01 NP (NDs)

Confidence Intervals - All Results (No Significant)

	PI	Plant Yates Client: Southern Company Data: Y			Data: Ya	ta: Yates Ash Pond 2 Printed			Printed 4/27/2022, 1:39 PM				
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	<u>N</u>	Mean	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Lithium (mg/L)	YGWC-26I	0.007307	0.006607	0.04	No	21	0.006957	0.0006345	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.0101	0.007874	0.04	No	21	0.008986	0.002015	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.0013	0.04	No	21	0.02724	0.008707	90.48	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.0071	0.00668	0.04	No	21	0.00689	0.0003807	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.04	No	21	0.02882	0.00539	95.24	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29I	0.0066	0.0053	0.04	No	21	0.00711	0.005308	4.762	None	No	0.01	NP (normality)
Mercury (mg/L)	YGWC-26I	0.0002	0.000051	0.002	No	15	0.0001801	0.00005243	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-26S	0.0002	0.000066	0.002	No	15	0.000181	0.00005024	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27I	0.0002	0.000054	0.002	No	15	0.0001799	0.00005298	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27S	0.0002	0.000049	0.002	No	15	0.0001793	0.00005456	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28I	0.0002	0.000048	0.002	No	15	0.0001899	0.00003925	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28S	0.0002	0.000052	0.002	No	15	0.0001901	0.00003821	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-29I	0.0002	0.000047	0.002	No	15	0.0001791	0.00005526	86.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-27I	0.01	0.0014	0.1	No	21	0.005662	0.004282	47.62	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.1	No	21	0.004995	0.004443	42.86	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00083	0.1	No	21	0.007795	0.004042	76.19	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29I	0.01	0.00083	0.1	No	21	0.009563	0.002001	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0034	0.0018	0.05	No	19	0.002574	0.001081	10.53	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	No	19	0.004174	0.001658	78.95	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	19	0.0048	0.0008718	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	19	0.004789	0.0009177	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-26S	0.001	0.000057	0.002	No	15	0.0008741	0.0003322	86.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-27S	0.001	0.0001	0.002	No	15	0.000642	0.0004539	60	None	No	0.01	NP (NDs)

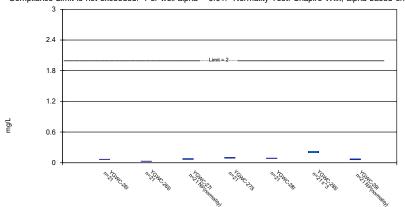
Non-Parametric Confidence Interval



Constituent: Antimony Analysis Run 4/27/2022 1:38 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

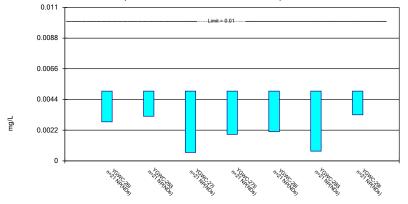
Parametric and Non-Parametric (NP) Confidence Interval Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 4/27/2022 1:38 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

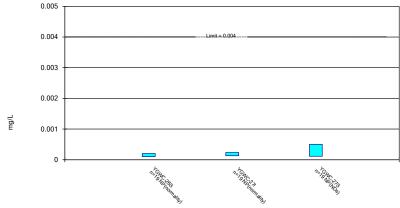


Constituent: Arsenic Analysis Run 4/27/2022 1:38 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

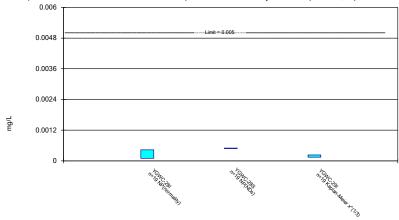
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



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.

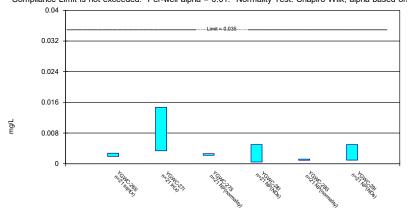


Constituent: Cadmium Analysis Run 4/27/2022 1:38 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

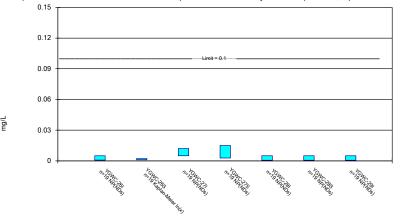
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/27/2022 1:38 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

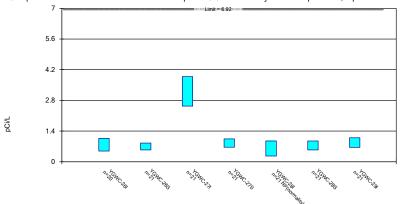


Constituent: Chromium Analysis Run 4/27/2022 1:38 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

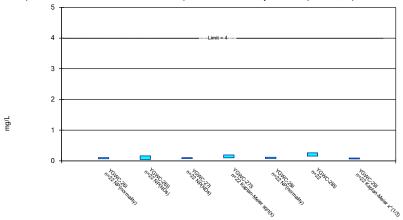
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

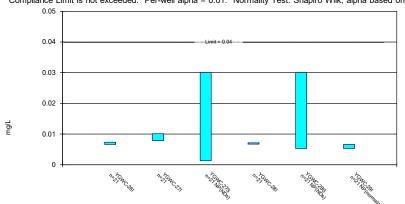


Constituent: Fluoride Analysis Run 4/27/2022 1:38 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

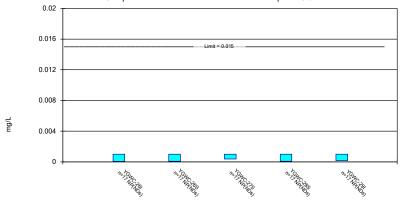
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



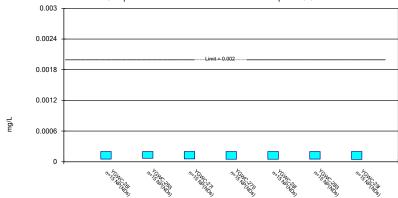
Constituent: Lead Analysis Run 4/27/2022 1:38 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

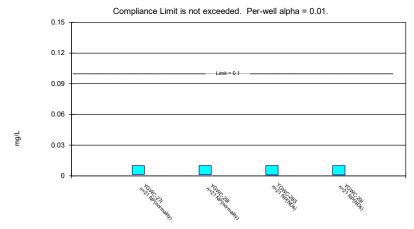
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

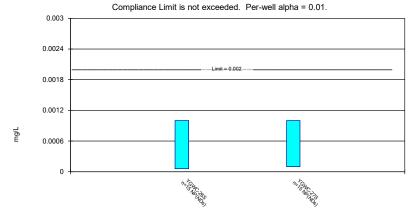
Non-Parametric Confidence Interval



Constituent: Molybdenum Analysis Run 4/27/2022 1:38 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

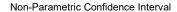
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

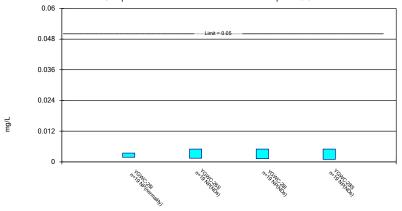


Constituent: Thallium Analysis Run 4/27/2022 1:38 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG



Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 4/27/2022 1:38 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Constituent: Antimony (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-29I
6/8/2016	<0.003	<0.003	<0.003	<0.003	
6/9/2016					<0.003
8/1/2016	<0.003	<0.003	<0.003	<0.003	
8/2/2016					<0.003
9/20/2016	<0.003	<0.003	<0.003	<0.003	
9/21/2016					<0.003
11/7/2016	<0.003	<0.003	<0.003	<0.003	<0.003
1/18/2017	<0.003	<0.003	<0.003		
1/19/2017				<0.003	<0.003
2/21/2017	<0.003	<0.003			
2/22/2017				<0.003	<0.003
2/23/2017			<0.003		
5/3/2017		<0.003			
5/8/2017	<0.003		<0.003	<0.003	<0.003
6/30/2017			<0.003	<0.003	
7/5/2017					<0.003
7/10/2017	<0.003	<0.003			
3/29/2018			<0.003	<0.003	<0.003
3/30/2018	<0.003	<0.003			
2/27/2019	<0.003	<0.003	<0.003	<0.003	<0.003
2/13/2020	0.00052 (J)	0.0016 (J)	<0.003	<0.003	<0.003
3/19/2020		0.0017 (J)			
3/20/2020	0.00059 (J)		0.00033 (J)	0.0003 (J)	<0.003
9/24/2020	<0.003	<0.003	<0.003	<0.003	0.0013 (J)
2/10/2021	<0.003	<0.003	<0.003	<0.003	
2/12/2021					<0.003
3/2/2021		<0.003			
3/3/2021	<0.003		<0.003	<0.003	<0.003
8/19/2021		<0.003			
8/20/2021	<0.003		<0.003	<0.003	<0.003
2/8/2022				<0.003	<0.003
2/10/2022	<0.003	<0.003	<0.003		
Mean	0.002712	0.002841	0.002843	0.002841	0.0029
Std. Dev.	0.0008121	0.0004487	0.0006476	0.0006548	0.0004123
Upper Lim.	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.00059	0.0017	0.00033	0.0003	0.0013

Constituent: Arsenic (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	<0.005	0.0011 (J)	<0.005			
6/9/2016					<0.005	0.00094 (J)	<0.005
8/1/2016	<0.005	<0.005	0.0009 (J)	<0.005			
8/2/2016					<0.005	<0.005	<0.005
9/20/2016	<0.005	<0.005	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	<0.005	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	<0.005				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		<0.005					
5/5/2017					<0.005	<0.005	
5/8/2017	<0.005		0.0006 (J)	<0.005			<0.005
6/30/2017			<0.005 (*)	<0.005 (*)			
7/5/2017					<0.005		<0.005
7/7/2017						0.0007 (J)	
7/10/2017	<0.005	<0.005					
3/29/2018			0.0006 (J)	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	0.00069 (J)	
6/11/2018							<0.005
6/12/2018				<0.005	<0.005	0.00075 (J)	
6/13/2018	<0.005	<0.005	<0.005				
10/2/2018	<0.005	<0.005	<0.005	<0.005			<0.005
10/3/2018					<0.005	0.0007 (J)	
2/27/2019	<0.005	<0.005	0.00069 (J)	<0.005	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	<0.005				<0.005	
9/25/2019	<0.005	<0.005					<0.005
9/26/2019			0.00058 (J)	<0.005	<0.005	0.00057 (J)	
2/13/2020	<0.005	<0.005	0.00055 (J)	<0.005	<0.005	0.00065 (J)	<0.005
3/19/2020		<0.005			<0.005	0.00051 (J)	
3/20/2020	<0.005		0.00042 (J)	<0.005			<0.005
9/24/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2021	<0.005	<0.005	<0.005	<0.005			
2/11/2021					<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
8/19/2021		<0.005					
8/20/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2022				0.0019 (J)	0.0021 (J)	0.0042 (J)	0.0033 (J)
2/10/2022	0.0028 (J)	0.0032 (J)	0.004 (J)				
Mean	0.004895	0.004914	0.003307	0.004852	0.004862	0.00332	0.004919
Std. Dev.	0.0004801	0.0003928	0.002126	0.0006765	0.0006328	0.002123	0.000371
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0028	0.0032	0.0006	0.0019	0.0021	0.0007	0.0033

Constituent: Barium (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.068	0.029	0.081	0.12			
6/9/2016					0.1	0.22	0.082
8/1/2016	0.0688	0.0316	0.0838	0.115			
8/2/2016					0.0836	0.212	0.0781
9/20/2016	0.0663	0.0298	0.0687	0.108			
9/21/2016	5				0.0889	0.228	0.0782
11/7/2016	0.065	0.0289	0.0639	0.102		0.214	0.0712
11/8/2016	5				0.0886		
1/18/2017	7 0.0625	0.0278	0.0645		0.0862	0.213	
1/19/2017	7			0.102			0.0689
2/21/2017	0.0655	0.0282				0.222	
2/22/2017	7			0.106	0.0915		0.0741
2/23/2017	7		0.0728				
5/3/2017		0.0282					
5/5/2017					0.0891	0.219	
5/8/2017	0.0699		0.0721	0.102			0.0725
6/30/2017	7		0.0666	0.0963			
7/5/2017					0.0862		0.0677
7/7/2017						0.205	
7/10/2017	0.0691	0.0274					
3/29/2018	3		0.062	0.097			0.055
3/30/2018	0.063	0.026			0.087	0.2	
6/11/2018	3						0.068
6/12/2018	3			0.095	0.088	0.21	
6/13/2018	0.064	0.026	0.063				
10/2/2018	0.066	0.026	0.062	0.1			0.067
10/3/2018	3				0.092	0.22	
2/27/2019	0.065	0.027	0.066	0.096	0.086	0.21	0.067
4/1/2019			0.066	0.099	0.088		0.063
4/2/2019	0.065	0.027				0.2	
9/25/2019	0.063	0.026					0.061
9/26/2019	9		0.065	0.099	0.087	0.18	
2/13/2020	0.06	0.025	0.063	0.097	0.089	0.21	0.053
3/19/2020)	0.027			0.089	0.2	
3/20/2020	0.063		0.062	0.095			0.057
9/24/2020	0.058	0.025	0.069	0.087	0.079	0.18	0.056
2/10/2021	0.06	0.031	80.0	0.088			
2/11/2021	I				0.078		
2/12/2021	I					0.057	0.21
3/2/2021		0.031					
3/3/2021	0.064		80.0	0.075	0.077	0.25	0.059
8/19/2021	I	0.023					
8/20/2021	0.063		0.083	0.082	0.079	0.24	0.057
2/8/2022				0.068	0.083	0.2	0.057
2/10/2022	2 0.063	0.027	0.079				
Mean	0.06439	0.02752	0.07016	0.09663	0.08648	0.2043	0.07251
Std. Dev.	0.003054	0.002175	0.007752	0.01201	0.005329	0.03757	0.03261
Upper Lin	n. 0.06607	0.02872	0.08	0.1033	0.08942	0.2217	0.0741
Lower Lin	n. 0.0627	0.02632	0.063	0.09001	0.08354	0.1958	0.057

Constituent: Beryllium (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-27I	YGWC-27S
6/8/2016	<0.0005	<0.0005	<0.0005
8/1/2016	0.0002 (J)	<0.0005	<0.0005
9/20/2016	0.0001 (J)	9E-05 (J)	<0.0005
11/7/2016	0.0001 (J)	0.0001 (J)	<0.0005
1/18/2017	0.0002 (J)	0.0002 (J)	
1/19/2017			<0.0005
2/21/2017	0.0002 (J)		
2/22/2017			<0.0005
2/23/2017		0.0002 (J)	
5/3/2017	0.0002 (J)		
5/8/2017		0.0002 (J)	<0.0005
6/30/2017		0.0002 (J)	<0.0005
7/10/2017	0.0002 (J)		
3/29/2018		<0.0005	<0.0005
3/30/2018	<0.0005		
2/27/2019	0.00018 (J)	0.00022 (J)	<0.0005
4/1/2019		0.00022 (J)	<0.0005
4/2/2019	0.00015 (J)		
9/25/2019	0.00011 (J)		
9/26/2019		0.0002 (J)	<0.0005
2/13/2020	0.00015 (J)	0.00021 (J)	<0.0005
3/19/2020	0.00012 (J)		
3/20/2020		0.00023 (J)	<0.0005
9/24/2020	8.5E-05 (J)	0.00019 (J)	<0.0005
2/10/2021	0.00013 (J)	0.00014 (J)	6.6E-05 (J)
3/2/2021	0.00016 (J)		
3/3/2021		0.00013 (J)	<0.0005
8/19/2021	8.2E-05 (J)		
8/20/2021		8.6E-05 (J)	0.00011 (J)
2/8/2022			<0.0005
2/10/2022	9.3E-05 (J)	0.00013 (J)	
Mean	0.0001821	0.0002235	0.0004566
Std. Dev.	0.0001199	0.0001312	0.0001301
Upper Lim.	0.0002	0.00023	0.0005
Lower Lim.	0.0001	0.00013	0.00011

Constituent: Cadmium (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29I
6/9/2016	0.00055 (J)	<0.0005	<0.0005
8/2/2016	0.0001 (J)	<0.0005	0.0001 (J)
9/21/2016	0.0001 (J)	<0.0005	0.0002 (J)
11/7/2016		<0.0005	0.0002 (J)
11/8/2016	9E-05 (J)		
1/18/2017	9E-05 (J)	<0.0005	
1/19/2017			0.0001 (J)
2/21/2017		<0.0005	
2/22/2017	0.0001 (J)		0.0001 (J)
5/5/2017	9E-05 (J)	<0.0005	
5/8/2017			0.0002 (J)
7/5/2017	0.0002 (J)		0.0002 (J)
7/7/2017		<0.0005	
3/29/2018			<0.0005
3/30/2018	<0.0005	<0.0005	
2/27/2019	0.00014 (J)	<0.0005	0.00026 (J)
4/1/2019	0.00043 (J)		0.00022 (J)
4/2/2019		<0.0005	
9/25/2019			0.00024 (J)
9/26/2019	<0.0005	<0.0005	
2/13/2020	0.00013 (J)	<0.0005	0.00018 (J)
3/19/2020	0.00016 (J)	<0.0005	
3/20/2020			0.00022 (J)
9/24/2020	0.00027 (J)	<0.0005	0.00033 (J)
2/11/2021	0.00052 (J)		
2/12/2021		0.00048 (J)	<0.0005
3/3/2021	0.00014 (J)	<0.0005	0.00029 (J)
8/20/2021	0.00027 (J)	<0.0005	0.00027 (J)
2/8/2022	0.00033 (J)	<0.0005	0.00019 (J)
Mean	0.0002479	0.0004989	0.0002526
Std. Dev.	0.0001701	4.588E-06	0.0001256
Upper Lim.	0.00043	0.0005	0.0002257
Lower Lim.	0.0001	0.00048	0.0001389

Constituent: Chromium (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	<0.005	<0.005	<0.005			
6/9/2016					<0.005	<0.005	<0.005
8/1/2016	0.0008 (J)	0.0026 (J)	<0.005	<0.005			
8/2/2016					0.0005 (J)	0.0005 (J)	0.0005 (J)
9/20/2016	<0.005	0.001 (J)	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	0.0013 (J)	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	0.002 (J)	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	0.0019 (J)				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		0.0037 (J)					
5/5/2017					<0.005	<0.005	
5/8/2017	0.0006 (J)		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		<0.005
7/7/2017						<0.005	
7/10/2017	<0.005 (*)	<0.005 (*)					
3/29/2018			<0.005	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	<0.005	
2/27/2019	0.0049 (J)	0.0055 (J)	<0.005	0.015	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	0.003 (J)				<0.005	
9/25/2019	0.00048 (J)	0.0012 (J)					<0.005
9/26/2019			<0.005	<0.005	0.00044 (J)	<0.005	
2/13/2020	0.00044 (J)	0.0012 (J)	<0.005	<0.005	0.00047 (J)	<0.005	<0.005
3/19/2020		0.0018 (J)			<0.005	0.00049 (J)	
3/20/2020	0.0009 (J)		<0.005	0.0005 (J)			<0.005
9/24/2020	0.00067 (J)	0.00068 (J)	<0.005	0.00057 (J)	<0.005	0.0006 (J)	<0.005
2/10/2021	0.00065 (J)	0.00091 (J)	<0.005	0.0027 (J)			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		0.001 (J)					
3/3/2021	<0.005		<0.005	0.00058 (J)	<0.005	<0.005	<0.005
8/19/2021		0.0012 (J)					
8/20/2021	<0.005		0.012	0.0041 (J)	<0.005	<0.005	<0.005
2/8/2022				<0.005	<0.005	<0.005	<0.005
2/10/2022	<0.005	<0.005	<0.005				
Mean	0.003392	0.002578	0.005368	0.004655	0.004285	0.004294	0.004763
Std. Dev.	0.002155	0.001725	0.001606	0.003012	0.001697	0.001675	0.001032
Upper Lim.	0.005	0.002127	0.012	0.015	0.005	0.005	0.005
Lower Lim.	0.00065	0.001045	0.005	0.0027	0.0005	0.0006	0.0005
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Constituent: Cobalt (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.0032	0.0016 (J)	0.0024 (J)			
6/9/2016				0.00042 (J)	0.00085 (J)	0.00052 (J)
8/1/2016	0.003 (J)	0.0014 (J)	0.0026 (J)			
8/2/2016				<0.005	0.0008 (J)	0.0006 (J)
9/20/2016	0.003 (J)	0.002 (J)	0.0026 (J)			
9/21/2016				<0.005	0.0008 (J)	0.0007 (J)
11/7/2016	0.0025 (J)	0.0016 (J)	0.0025 (J)		0.001 (J)	<0.005
11/8/2016				<0.005		
1/18/2017	0.0022 (J)	0.0017 (J)		<0.005	0.001 (J)	
1/19/2017			0.0024 (J)			<0.005
2/21/2017	0.0022 (J)				0.0011 (J)	
2/22/2017			0.0023 (J)	<0.005		<0.005
2/23/2017		0.002 (J)				
5/3/2017	0.002 (J)					
5/5/2017				<0.005	0.0012 (J)	
5/8/2017		0.0029 (J)	0.0023 (J)			<0.005
6/30/2017		0.0044 (J)	0.0022 (J)			
7/5/2017				<0.005		0.0003 (J)
7/7/2017					0.0012 (J)	
7/10/2017	0.002 (J)					
3/29/2018		0.0495 (D)	<0.005			<0.005
3/30/2018	<0.005			<0.005	<0.005	
6/11/2018						<0.005
6/12/2018			0.0025 (J)	<0.005	0.0011 (J)	
6/13/2018	0.0017 (J)	0.092				
10/2/2018	0.002 (J)	0.078	0.0023 (J)			<0.005
10/3/2018				<0.005	0.0013 (J)	
2/27/2019	0.0017 (J)	0.035	0.0024 (J)	<0.005	0.00093 (J)	<0.005
4/1/2019		0.025	0.0023 (J)	<0.005		<0.005
4/2/2019	0.0022 (J)				0.0011 (J)	
9/25/2019	0.0033 (J)					<0.005
9/26/2019		0.014	0.0021 (J)	<0.005	0.00098 (J)	
2/13/2020	0.0019 (J)	0.012	0.0026 (J)	<0.005	0.00092 (J)	<0.005
3/19/2020	0.0021 (J)			<0.005	0.00093 (J)	
3/20/2020		0.014	0.0022 (J)			<0.005
9/24/2020	0.0011 (J)	0.0076	0.0021 (J)	<0.005	0.00085 (J)	<0.005
2/10/2021	0.0017 (J)	0.0048 (J)	0.0025 (J)			
2/11/2021				<0.005		
2/12/2021					<0.005	0.00094 (J)
3/2/2021	0.0021 (J)					
3/3/2021		0.0042 (J)	0.0017 (J)	<0.005	0.001 (J)	<0.005
8/19/2021	0.0017 (J)					
8/20/2021		0.0034 (J)	0.0027 (J)	<0.005	0.00097 (J)	<0.005
2/8/2022			0.0017 (J)	<0.005	0.00091 (J)	<0.005
2/10/2022	0.0026 (J)	0.0051				
Mean	0.002343	0.01725	0.002448	0.004782	0.001378	0.003955
Std. Dev.	0.0008244	0.02581	0.0006416	0.0009994	0.001211	0.001918
Upper Lim.	0.002719	0.0147	0.0026	0.005	0.0012	0.005
Lower Lim.	0.001886	0.003357	0.0022	0.00042	0.00091	0.00094

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	6.68 (o)	0.677	1.81	0.257 (U)			
6/9/2016	6				0.194 (U)	0.715	0.523
8/1/2016	0.606 (U)	0.457 (U)	3.79	0.453 (U)			
8/2/2016	3				0.331 (U)	0.526 (U)	1.25
9/20/20	16 0.565 (U)	0.555 (U)	3.12	1.27			
9/21/20	16				0.335 (U)	0.176 (U)	1.21 (U)
11/7/20	16 0.773 (U)	0.647 (U)	2.66	0.877 (U)		0.609 (U)	1.16
11/8/20	16				0.245 (U)		
1/18/20	17 0.263 (U)	0.6 (U)	3.44		0.261 (U)	0.0752 (U)	
1/19/20	17			0.764 (U)			0.933 (U)
2/21/20	17 1.06 (U)	1.11 (U)				0.404 (U)	
2/22/20	17			1.26 (U)	0.516 (U)		1.45 (U)
2/23/20	17		4.73				
5/3/2017	7	0.654 (U)					
5/5/2017	7				0.713 (U)	0.868 (U)	
5/8/2017	7 0.291 (U)		3.87	0.789 (U)			0.21 (U)
6/30/20	17		2.85	0.592 (U)			
7/5/2017	7				0.292 (U)		0.62 (U)
7/7/2017	7					1.29	
7/10/20	17 0.912	0.649 (U)					
3/29/20	18		1.41	0.916 (U)			1.37
3/30/20	18 0.23 (U)	0.501 (U)			0.948 (U)	0.195 (U)	
6/11/20	18						1.27 (U)
6/12/20	18			0.666 (U)	0.869 (U)	1.02 (U)	
6/13/20	18 0.427 (U)	1.09 (U)	3.69				
10/2/20	18 1.41 (U)	0.747 (U)	4.5	0.774 (U)			0.442 (U)
10/3/20	18				0.864 (U)	0.713 (U)	
2/27/20	19 0.614 (U)	1.27	4.69	1.19	0.947 (U)	0.543 (U)	0.902 (U)
4/1/2019	Э		5	0.777 (U)	0.162 (U)		0.584 (U)
4/2/2019	0.84 (U)	0.708 (U)				0.521 (U)	
9/25/20	19 1.01 (U)	1.18 (U)					1.03 (U)
9/26/20	19		3.37	1.01 (U)	1.06 (U)	1.16	
2/13/202	20 1.86	0.178 (U)	4.48	0.961 (U)	1.12 (U)	1.04	0.806 (U)
3/19/202	20	0.796 (U)			0.913 (U)	1.01 (U)	
3/20/202	20 2.03		4.13	1.5			1.42
9/24/202	20 <1.88	<1.88	3.42	1.49	<1.88	<1.88	<1.88
2/10/202	21 0.513 (U)	0.41 (U)	2.47	0.663 (U)			
2/11/202	21				1.07		
2/12/202	21					0.419 (U)	0.826
3/2/202	1	0.394 (U)					
3/3/202	1 0.419 (U)		1.39	0.327 (U)	0.261 (U)	1.04	0.955
8/19/202	21	0.531 (U)					
8/20/202	21 0.596 (U)		1.36	0.542 (U)	0.656 (U)	1.34	0.314 (U)
2/8/2022	2			0.781 (U)	1.07 (U)	0.964	0.104 (U)
2/10/202	22 0.149 (U)	0.431 (U)	1.23				
Mean	0.7754	0.6917	3.21	0.8504	0.6556	0.7413	0.8723
Std. Dev	v. 0.5117	0.2857	1.221	0.3446	0.3485	0.3675	0.4013
Upper L	im. 1.066	0.8492	3.883	1.041	0.948	0.9441	1.094
Lower L	im. 0.4848	0.5341	2.537	0.6603	0.261	0.5386	0.6509

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.094 (J)	<0.1	0.086 (J)	0.12 (J)			
6/9/2016					0.098 (J)	0.16 (J)	0.085 (J)
8/1/2016	0.08 (J)	0.24 (J)	0.14 (J)	0.22 (J)			
8/2/2016					0.38	0.5	0.09 (J)
9/20/2016	0.05 (J)	0.03 (J)	<0.1	0.32			
9/21/2016					0.08 (J)	0.25 (J)	0.09 (J)
11/7/2016	<0.1 (*)	0.44	<0.1 (*)	<0.1 (*)		0.27 (J)	<0.1 (*)
11/8/2016					0.24 (J)		
1/18/2017	0.11 (J)	<0.1 (*)	<0.1 (*)		0.12 (J)	0.34	
1/19/2017				0.25 (J)			<0.1 (*)
2/21/2017	<0.1 (*)	<0.1 (*)				0.27 (J)	
2/22/2017				0.21 (J)	<0.1 (*)		<0.1 (*)
2/23/2017			<0.1 (*)				
5/3/2017		0.16 (J)					
5/5/2017					0.08 (J)	0.2 (J)	
5/8/2017	0.08 (J)		0.07 (J)	0.19 (J)			0.06 (J)
6/30/2017			<0.1 (*)	0.2 (J)			
7/5/2017					0.11 (J)		0.08 (J)
7/7/2017						0.18 (J)	
7/10/2017	<0.1 (*)	<0.1 (*)					
10/5/2017					<0.1 (*)		<0.1 (*)
10/6/2017				<0.1 (*)			
10/9/2017			<0.1 (*)			<0.1 (*)	
10/10/2017	<0.1	<0.1					
3/29/2018			<0.1	0.49			<0.1
3/30/2018	<0.1	0.35			<0.1	<0.1	
6/11/2018							<0.1
6/12/2018				0.037 (J)	<0.1	0.13 (J)	
6/13/2018	0.088 (J)	0.044 (J)	<0.1				
10/2/2018	<0.1	<0.1	<0.1	<0.1			<0.1
10/3/2018					<0.1	0.31	
2/27/2019	<0.1	<0.1	<0.1	0.14 (J)	0.14 (J)	0.22 (J)	0.15 (J)
4/1/2019			0.034 (J)	0.088 (J)	0.078 (J)		0.059 (J)
4/2/2019	0.071 (J)	<0.1				0.14 (J)	
9/25/2019	0.064 (J)	<0.1					0.054 (J)
9/26/2019			0.14 (J)	0.22 (J)	0.29 (J)	0.28 (J)	
2/13/2020	<0.1	<0.1	<0.1	0.11 (J)	0.14 (J)	0.18 (J)	0.053 (J)
3/19/2020		<0.1			0.07 (J)	0.16 (J)	
3/20/2020	0.06 (J)		<0.1	0.097 (J)			0.057 (J)
9/24/2020	0.053 (J)	<0.1	0.059 (J)	0.092 (J)	0.073 (J)	0.16	0.06 (J)
2/10/2021	0.05 (J)	<0.1	0.055 (J)	0.084 (J)			
2/11/2021					0.066 (J)		
2/12/2021						0.069 (J)	0.17
3/2/2021		<0.1					
3/3/2021	0.05 (J)		0.058 (J)	<0.1	0.072 (J)	0.13	0.056 (J)
8/19/2021		<0.1					
8/20/2021	<0.1		0.091 (J)	0.11	0.11	0.2	0.069 (J)
2/8/2022				0.087 (J)	0.063 (J)	0.14	0.053 (J)
2/10/2022	<0.1	<0.1	0.059 (J)				
Mean	0.08409	0.1302	0.09055	0.1575	0.1232	0.204	0.08573
Std. Dev.	0.02065	0.09494	0.02574	0.1014	0.07937	0.09764	0.03079
Upper Lim.	0.1	0.16	0.1	0.1919	0.12	0.2565	0.08932

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
Lower Lim.	0.064	0.044	0.07	0.09792	0.078	0.1516	0.05868

Constituent: Lead (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27S	YGWC-28S	YGWC-29I
6/8/2016	<0.001	<0.001	<0.001 (*)		
6/9/2016				<0.001	<0.001
8/1/2016	<0.001	<0.001	<0.001		
8/2/2016				<0.001	<0.001
9/20/2016	<0.001	<0.001	0.0002 (J)		
9/21/2016				<0.001	<0.001
11/7/2016	<0.001	<0.001	<0.001	<0.001	<0.001
1/18/2017	<0.001	<0.001		<0.001	
1/19/2017			<0.001		<0.001
2/21/2017	<0.001	<0.001		<0.001	
2/22/2017			<0.001		<0.001
5/3/2017		<0.001 (*)			
5/5/2017				<0.001 (*)	
5/8/2017	<0.001		<0.001		<0.001
6/30/2017			<0.001		
7/5/2017					<0.001
7/7/2017				7E-05 (J)	
7/10/2017	<0.001	8E-05 (J)			
3/29/2018			<0.001		<0.001
3/30/2018	<0.001	<0.001		<0.001	
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2020	<0.001	<0.001	6.2E-05 (J)	5.4E-05 (J)	<0.001
3/19/2020		0.0001 (J)		7.5E-05 (J)	
3/20/2020	5.9E-05 (J)		8.5E-05 (J)		<0.001
9/24/2020	<0.001	6.4E-05 (J)	0.00037 (J)	6.3E-05 (J)	9.5E-05 (J)
2/10/2021	5.1E-05 (J)	5E-05 (J)	0.00072 (J)		
2/12/2021				5.2E-05 (J)	6.6E-05 (J)
3/2/2021		5.6E-05 (J)			
3/3/2021	<0.001		<0.001	<0.001	0.00016 (J)
8/19/2021		<0.001			
8/20/2021	<0.001		0.00096 (J)	<0.001	<0.001
2/8/2022			<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001			
Mean	0.0008888	0.0007265	0.0007881	0.0007244	0.0008424
Std. Dev.	0.0003138	0.0004369	0.0003597	0.0004402	0.0003513
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	5.9E-05	8E-05	0.00037	7E-05	0.00016

Constituent: Lithium (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.007	0.0067	<0.03			
6/9/2016				0.0073	<0.03	0.0075
8/1/2016	0.0068 (J)	0.008 (J)	<0.03			
8/2/2016				0.0073 (J)	<0.03	0.0078 (J)
9/20/2016	0.0062 (J)	0.0111 (J)	<0.03			
9/21/2016				0.0067 (J)	<0.03	0.0074 (J)
11/7/2016	0.0057 (J)	0.0097 (J)	<0.03		<0.03	0.0057 (J)
11/8/2016				0.0072 (J)		
1/18/2017	0.0066 (J)	0.01 (J)		0.0067 (J)	<0.03	
1/19/2017	. ,	. ,	<0.03	, ,		0.0055 (J)
2/21/2017	0.0067 (J)				<0.03	
2/22/2017	. ,		<0.03	0.0064 (J)		0.0063 (J)
2/23/2017		0.0099 (J)		()		. ,
5/5/2017				0.007 (J)	<0.03	
5/8/2017	0.007 (J)	0.0086 (J)	<0.03	. ,		0.0066 (J)
6/30/2017	. ,	0.0108 (J)	<0.03			. ,
7/5/2017		(1)		0.0072 (J)		0.0058 (J)
7/7/2017				()	<0.03	. ,
7/10/2017	0.0064 (J)					
3/29/2018	(-)	0.011 (J)	<0.03			0.0049 (J)
3/30/2018	0.0068 (J)	(3)		0.007 (J)	<0.03	(-)
6/11/2018	(-)			(-)		0.0064 (J)
6/12/2018			<0.03	0.0073 (J)	<0.03	(-)
6/13/2018	0.0071 (J)	0.014 (J)		(-)		
10/2/2018	0.0064 (J)	0.012 (J)	<0.03			0.006 (J)
10/3/2018	(-)	(-)		0.0069 (J)	<0.03	(-)
2/27/2019	0.0069 (J)	0.0096 (J)	<0.03	0.0063 (J)	<0.03	0.0053 (J)
4/1/2019	(-)	0.0082 (J)	<0.03	0.0065 (J)		0.0052 (J)
4/2/2019	0.0064 (J)	(-)		(-)	<0.03	(-)
9/25/2019	0.0073 (J)					0.0057 (J)
9/26/2019	0.0070 (0)	0.0075 (J)	<0.03	0.0064 (J)	<0.03	0.0007 (0)
2/13/2020	0.0073 (J)	0.0079 (J)	<0.03	0.0069 (J)	<0.03	0.0057 (J)
3/19/2020	0.0070 (0)	0.0070 (0)	0.00	0.007 (J)	<0.03	0.0007 (0)
3/20/2020	0.0072 (J)	0.0091 (J)	<0.03	0.007 (0)	0.00	0.0051 (J)
9/24/2020	0.0072 (0) 0.0074 (J)	0.0075 (J)	<0.03	0.0065 (J)	<0.03	0.005 (J)
2/10/2021	0.0067 (J)	0.0067 (J)	0.00081 (J)	0.0000 (0)	0.00	0.000 (0)
2/11/2021	0.0007 (0)	0.0007 (0)	0.00001 (0)	0.007 (J)		
2/12/2021				0.007 (0)	0.0053 (J)	<0.03
3/3/2021	0.0077 (J)	0.0066 (J)	<0.03	0.0063 (J)	<0.03	0.0054 (J)
8/20/2021	0.0077 (U)	0.0066 (J)	0.0013 (J)	0.0072 (J)	<0.03	0.0056 (J)
2/8/2022	0.0075 (0)	0.0000 (0)	<0.03	0.0072 (0) 0.0076 (J)	<0.03	0.0064 (J)
2/10/2022	0.0086 (J)	0.0072 (J)	10.00	0.0070 (3)	10.00	0.0004 (0)
Mean	0.0060 (3)	0.0072 (3)	0.02724	0.00689	0.02882	0.00711
Std. Dev.	0.000937	0.002015	0.02724	0.00089	0.02882	0.005308
Upper Lim.	0.000343	0.0101	0.008707	0.0003807	0.00339	0.0066
Lower Lim.	0.007307	0.007874	0.0013	0.00668	0.0053	0.0053
LOWOI LIIII.	3.00007	3.007074	2.0010	3.00000	0.0000	5.5000

Constituent: Mercury (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.0002	<0.0002	<0.0002	<0.0002			
6/9/2016					<0.0002 (*)	<0.0002 (*)	<0.0002 (*)
8/1/2016	<0.0002	<0.0002	<0.0002	<0.0002			
8/2/2016					<0.0002	<0.0002	<0.0002
9/20/2016	<0.0002	<0.0002	<0.0002	<0.0002			
9/21/2016					<0.0002	<0.0002	<0.0002
11/7/2016	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
11/8/2016					<0.0002		
1/18/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
1/19/2017				<0.0002			<0.0002
2/21/2017	<0.0002	<0.0002				<0.0002	
2/22/2017				<0.0002	<0.0002		<0.0002
2/23/2017			<0.0002				
5/3/2017		<0.0002					
5/5/2017					<0.0002	<0.0002	
5/8/2017	<0.0002		<0.0002	<0.0002			<0.0002
6/30/2017			<0.0002 (*)	<0.0002 (*)			
7/5/2017					<0.0002		<0.0002
7/7/2017						<0.0002	
7/10/2017	<0.0002	<0.0002					
3/29/2018			<0.0002	<0.0002			<0.0002
3/30/2018	<0.0002	<0.0002			<0.0002	<0.0002	
2/27/2019	5.1E-05 (J)	4.9E-05 (J)	5.4E-05 (J)	4.9E-05 (J)	4.8E-05 (J)	5.2E-05 (J)	4.7E-05 (J)
4/1/2019			4.5E-05 (J)	4.1E-05 (J)	<0.0002		3.9E-05 (J)
4/2/2019	5.1E-05 (J)	6.6E-05 (J)				<0.0002	
9/25/2019	<0.0002	<0.0002					<0.0002
9/26/2019			<0.0002	<0.0002	<0.0002	<0.0002	
2/13/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/10/2021	<0.0002	<0.0002	<0.0002	<0.0002			
2/11/2021					<0.0002		
2/12/2021						<0.0002	<0.0002
2/8/2022				<0.0002	<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002	<0.0002				
Mean	0.0001801	0.000181	0.0001799	0.0001793	0.0001899	0.0001901	0.0001791
Std. Dev.	5.243E-05	5.024E-05	5.298E-05	5.456E-05	3.925E-05	3.821E-05	5.526E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	5.1E-05	6.6E-05	5.4E-05	4.9E-05	4.8E-05	5.2E-05	4.7E-05

Constituent: Molybdenum (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV Plant Yates Client: Southern Company Data: Yates Ash Pond 2

			. idik i'd	
	YGWC-27I	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.0011 (J)			
6/9/2016		0.0011 (J)	<0.01	<0.01
8/1/2016	0.0018 (J)			
8/2/2016		0.0014 (J)	0.0006 (J)	<0.01
9/20/2016	<0.01			
9/21/2016		<0.01	<0.01	<0.01
11/7/2016	<0.01		<0.01	<0.01
11/8/2016		<0.01		
1/18/2017	<0.01	<0.01	<0.01	
1/19/2017				<0.01
2/21/2017			<0.01	
2/22/2017		<0.01		<0.01
2/23/2017	<0.01			
5/5/2017		0.0014 (J)	0.0007 (J)	
5/8/2017	0.0011 (J)			<0.01
6/30/2017	<0.01			
7/5/2017		0.0014 (J)		<0.01
7/7/2017			<0.01	
3/29/2018	<0.01			<0.01
3/30/2018		<0.01	<0.01	
6/11/2018				<0.01
6/12/2018		<0.01	<0.01	
6/13/2018	<0.01			
10/2/2018	<0.01			<0.01
10/3/2018		<0.01	<0.01	
2/27/2019	<0.01	<0.01	<0.01	<0.01
4/1/2019	<0.01	<0.01		<0.01
4/2/2019			<0.01	
9/25/2019				<0.01
9/26/2019	0.0013 (J)	0.0013 (J)	<0.01	
2/13/2020	0.0014 (J)	0.0013 (J)	<0.01	<0.01
3/19/2020		0.0014 (J)	<0.01	
3/20/2020	0.0014 (J)			<0.01
9/24/2020	0.0015 (J)	0.0012 (J)	0.00075 (J)	<0.01
2/10/2021	0.0016 (J)			
2/11/2021		0.0012 (J)		
2/12/2021			<0.01	0.00083 (J)
3/3/2021	0.0017 (J)	0.0011 (J)	0.00083 (J)	<0.01
8/20/2021	0.0042 (J)	0.001 (J)	<0.01	<0.01
2/8/2022		0.0011 (J)	0.00082 (J)	<0.01
2/10/2022	0.0018 (J)			
Mean	0.005662	0.004995	0.007795	0.009563
Std. Dev.	0.004282	0.004443	0.004042	0.002001
Upper Lim.	0.01	0.01	0.01	0.01
Lower Lim.	0.0014	0.0012	0.00083	0.00083

Constituent: Selenium (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-28I	YGWC-28S
6/8/2016	0.0016	0.0003 (J)		
6/9/2016			<0.005	<0.005
8/1/2016	0.0023 (J)	0.0014 (J)		
8/2/2016			<0.005	<0.005
9/20/2016	0.0022 (J)	<0.005		
9/21/2016			<0.005	0.001 (J)
11/7/2016	0.0017 (J)	<0.005		<0.005
11/8/2016			<0.005	
1/18/2017	0.002 (J)	0.0012 (J)	<0.005	<0.005
2/21/2017	0.0018 (J)	0.0014 (J)		<0.005
2/22/2017			0.0012 (J)	
5/3/2017		<0.005		
5/5/2017			<0.005	<0.005
5/8/2017	<0.005			
7/5/2017			<0.005	
7/7/2017				<0.005
7/10/2017	0.002 (J)	<0.005		
3/30/2018	<0.005	<0.005	<0.005	<0.005
2/27/2019	0.002 (J)	<0.005	<0.005	<0.005
4/1/2019			<0.005	
4/2/2019	0.0017 (J)	<0.005		<0.005
9/25/2019	0.0019 (J)	<0.005		
9/26/2019			<0.005	<0.005
2/13/2020	0.0019 (J)	<0.005	<0.005	<0.005
3/19/2020		<0.005	<0.005	<0.005
3/20/2020	0.0019 (J)			
9/24/2020	0.0031 (J)	<0.005	<0.005	<0.005
2/10/2021	0.0026 (J)	<0.005		
2/11/2021			<0.005	
2/12/2021				<0.005
3/2/2021		<0.005		
3/3/2021	0.0034 (J)		<0.005	<0.005
8/19/2021		<0.005		
8/20/2021	0.0026 (J)		<0.005	<0.005
2/8/2022			<0.005	<0.005
2/10/2022	0.0042 (J)	<0.005		
Mean	0.002574	0.004174	0.0048	0.004789
Std. Dev.	0.001081	0.001658	0.0008718	0.0009177
Upper Lim.	0.0034	0.005	0.005	0.005
Lower Lim.	0.0018	0.0014	0.0012	0.001

Constituent: Thallium (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-27S
6/8/2016	<0.001	0.00012 (J)
8/1/2016	<0.001	0.0001 (J)
9/20/2016	<0.001	<0.001
11/7/2016	<0.001	<0.001
1/18/2017	<0.001	
1/19/2017		<0.001
2/21/2017	<0.001	
2/22/2017		<0.001
5/3/2017	<0.001	
5/8/2017		0.0001 (J)
6/30/2017		0.0001 (J)
7/10/2017	<0.001	
3/29/2018		<0.001
3/30/2018	<0.001	
2/27/2019	<0.001	<0.001
2/13/2020	5.7E-05 (J)	0.0001 (J)
3/19/2020	5.5E-05 (J)	
3/20/2020		0.00011 (J)
9/24/2020	<0.001	<0.001
2/10/2021	<0.001	<0.001
2/8/2022		<0.001
2/10/2022	<0.001	
Mean	0.0008741	0.000642
Std. Dev.	0.0003322	0.0004539
Upper Lim.	0.001	0.001
Lower Lim.	5.7E-05	0.0001

August/September 2022

GROUNDWATER STATS CONSULTING

January 31, 2023

Southern Company Services Attn: Ms. Lauren Hartley 241 Ralph McGill Blvd NE, Bin 10160 Atlanta, Georgia 30308-3374

Re: Plant Yates Ash Pond 2 (AP-2)

August/September 2022 Statistical Analysis

Dear Ms. Hartley,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August/September 2022 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates AP-2. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) 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: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, and YGWC-29I

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Dr. Jim Loftis, Civil & Environmental Engineering professor emeritus at Colorado State University and Senior Advisor to Groundwater Stats Consulting.

The CCR program consists of the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- Appendix III (Detection Monitoring) boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV (Assessment Monitoring) antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

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

Combined upgradient well data from all units at Plant Yates are utilized to construct statistical limits for Appendix III and IV parameters.

For all constituents, a substitution of the most recent reporting limit is used for non-detect data and this generally gives the most conservative limit in each case. On 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. Regarding the case of cobalt, due to varying detection limits in individual wells, the most recent reporting limit of 0.005 mg/L was substituted across all wells for all calculations and reports.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. 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).

Summary of Statistical Methods – Appendix III and IV Parameters:

Based on the background screening performed in 2017 and state and federal regulatory requirements described below, the following methods were selected for Appendix III and IV constituents:

- Appendix III: Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV: Confidence intervals for antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

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 the parametric prediction 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 prediction 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% nondetects (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 careful screening for any new outliers. 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 Background Update – Appendix III and IV Constituents - Conducted in March 2020

Outlier Analysis

The original background screening was conducted in 2017 by MacStat Consulting. Values identified as outliers were flagged in the database and excluded prior to construction of statistical limits. Interwell prediction limits, combined with a 1-of-2 resample plan, were recommended. During the March 2020 1st semi-annual analysis, data were screened for the purpose of updating the statistical limits as described below.

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 upgradient wells for Appendix III and all wells for Appendix IV parameters are formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, a couple outliers were identified. While this is not the case in the present data set, 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.

Only one of the outliers identified by Tukey's method (combined radium 226 + 228 in downgradient well YGWC-26I) was flagged in the database as all other values were either similar to remaining measurements within the same well and neighboring wells, or the values were reported non-detects. 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 will 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. When the reporting limit was higher than the CCR-rule specified levels discussed below, non-detects were substituted with one half the reporting limit. A summary of outlier results follows this letter (Figure C).

Seasonality

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

Trend Test Evaluation

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall test was used to evaluate all data at upgradient wells for Appendix III parameters and all wells for Appendix IV parameters to identify statistically significant increasing or decreasing. 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 than current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses for the Appendix III and IV parameters showed statistically significant decreasing trends for a handful of constituents and statistically significant increasing trends for calcium, cobalt, combined radium 226 + 228, and sulfate.

Most of the trends noted were relatively low in magnitude when compared to average concentrations, and the background time period is short with only three years of record, making it difficult to separate trends from normal year-to-year variation; therefore, no adjustments were made to the data sets. If the observed decreasing or increasing trends persist over a longer time frame, some records may need to be truncated.

Statistical Analysis of Appendix III Parameters – August/September 2022

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. No new outliers were flagged for Appendix III parameters.

The reported measurement of 451 mg/L for sulfate in well YGWC-27S during the March 2021 sample event was considerably higher than remaining measurements at this well. This value was not flagged as outlier, but if further review demonstrates this value to be anomalous, it will be flagged as an outlier in the database. 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

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical pooled upgradient well data through September 2022 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The August/September 2022 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

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 a resample confirms the initial exceedance, a statistically significant increase (SSI) is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Prediction limit exceedances were noted for the following Appendix III well/constituent pairs:

Boron: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I,

YGWC-28S, and YGWC-29I

Chloride: YGWC-26I, YGWC-26S, YGWC-27I, and YGWC-28S

TDS: YGWC-26I and YGWC-28S

Note that in order to maintain a statistical limit that is conservative from a regulatory perspective, an interwell parametric prediction limit was constructed for TDS.

<u>Trend Test Evaluation – Appendix III</u>

When prediction limit exceedances are identified in 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 (Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of natural variability in groundwater unrelated to practices at the site. Both a summary and complete graphical results of the trend tests follow this report. Statistically significant trends were identified for the following downgradient and associated upgradient well/constituent pairs:

Increasing:

Chloride: GWA-2, YGWA-17S, YGWA-18I, YGWA-20S, and YGWA-40

(all upgradient)

• TDS: GWA-2 and YGWA-39 (both upgradient)

Decreasing:

Boron: YGWA-40 (upgradient), YGWC-26I, and YGWC-29I
 Chloride: YGWA-3D (upgradient), YGWA-47 (upgradient),

YGWA-5D (upgradient), YGWC-26I, and YGWC-26S

• TDS: YGWA-47 and YGWA-5D (both upgradient)

A complete list of trend test results and all statistically significant increasing and decreasing trends may be found following this letter in the Trend Test Summary Table.

Statistical Analysis of Appendix IV Parameters – August/September 2022

For analysis of Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs that have 100% non-detects or trace values below the reporting limits do not require analysis.

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 in order to maintain statistical limits that are conservative (i.e., lower) from a regulatory perspective. The reported measurements since August 2020 were previously flagged as they 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 prediction 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 through September 2022 for Appendix IV constituents (Figure F). 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 (or false positive rate) 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 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). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, 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, Federal and State CCR Rules specify levels 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

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals using data through September 2022 were constructed for each of the Appendix IV constituents in each downgradient well with 4 or more samples (Figure H).

The Sanitas software was used to calculate the tolerance limits and the confidence intervals, either parametric or nonparametric, as appropriate. Confidence intervals were compared to the GWPS prepared as described above. 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. Summaries of the confidence interval results, along with graphical comparison against GWPS follow this letter. No exceedances were identified.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Yates AP-2. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Andrew T. Collins

Project Manager

Kristina L. Rayner Senior Statistician

Kristina Rayner

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

100% Non-Detects: Appendix IV Downgradient

Analysis Run 10/12/2022 1:44 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Antimony (mg/L) YGWC-28I, YGWC-28S

Beryllium (mg/L) YGWC-26I, YGWC-28I, YGWC-28S, YGWC-29I

Cadmium (mg/L) YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S

Cobalt (mg/L) YGWC-26I

Lead (mg/L) YGWC-27I, YGWC-28I

Lithium (mg/L) YGWC-26S

Molybdenum (mg/L) YGWC-26I, YGWC-26S, YGWC-27S

Selenium (mg/L) YGWC-27I, YGWC-27S, YGWC-29I

Thallium (mg/L) YGWC-26I, YGWC-27I, YGWC-28I, YGWC-28S, YGWC-29I

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/13/2022, 3:52 PM Constituent <u>Well</u> Upper Lim. Lower Lim. Date Observ. Sig. Bg N Bg Mean Std. Dev. %NDs ND Adj. Transform Alpha Method 8/31/2022 0.64 Yes 350 n/a Boron (mg/L) YGWC-26I 0.16 n/a n/a 48.57 n/a n/a 0.00004918 NP Inter (normality) 1 of 2 8/31/2022 0.7 Boron (mg/L) YGWC-26S 0.16 n/a Yes 350 n/a n/a 48.57 n/a n/a 0.00004918 NP Inter (normality) 1 of 2 Boron (mg/L) YGWC-27I 0.16 9/1/2022 2.3 Yes 350 n/a 48.57 n/a 0.00004918 NP Inter (normality) 1 of 2 n/a n/a n/a Boron (mg/L) YGWC-27S 0.16 9/1/2022 Yes 350 n/a 48.57 n/a 0.00004918 NP Inter (normality) 1 of 2 Boron (mg/L) YGWC-28I 0.16 9/1/2022 1.8 Yes 350 n/a 48.57 n/a 0.00004918 NP Inter (normality) 1 of 2 n/a n/a n/a Boron (mg/L) YGWC-28S 0.16 9/1/2022 2.2 Yes 350 n/a 48.57 n/a 0.00004918 NP Inter (normality) 1 of 2 YGWC-29I Boron (mg/L) 9/1/2022 0.71 Yes 350 n/a 48.57 n/a n/a 0.00004918 NP Inter (normality) 1 of 2 0.16 n/a n/a Chloride (mg/L) YGWC-26I 12 8/31/2022 16.6 Yes 350 n/a 0.00004918 NP Inter (normality) 1 of 2 YGWC-26S 8/31/2022 15 0 0.00004918 NP Inter (normality) 1 of 2 Chloride (mg/L) 12 n/a Yes 350 n/a n/a n/a n/a Chloride (mg/L) YGWC-27I 12 9/1/2022 Yes 350 n/a 0.00004918 NP Inter (normality) 1 of 2 Yes 350 n/a Chloride (mg/L) YGWC-28S 12 9/1/2022 16.5 0.00004918 NP Inter (normality) 1 of 2 n/a n/a n/a n/a Total Dissolved Solids (mg/L) 209.3 8/31/2022 Yes 350 108.1 0.5714None 0.001075 Param Inter 1 of 2 YGWC-26I n/a Total Dissolved Solids (mg/L) YGWC-28S 9/1/2022 225 Yes 350 108.1 0.5714None 0.001075 209.3 n/a 54.44 Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/13/2022, 3:52 PM

Constituent	Well	Upper Lir	n. Lower Lin	n. Date	Observ.	Sig. Bg N Bg Mean	Std. Dev.	%NDs ND Adj.	Transform	<u>Alpha</u>	Method
Boron (mg/L)	YGWC-26I	0.16	n/a	8/31/2022	0.64	Yes 350 n/a	n/a	48.57 n/a	n/a		NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	8/31/2022	0.7	Yes 350 n/a	n/a	48.57 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	9/1/2022	2.3	Yes 350 n/a	n/a	48.57 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	9/1/2022	1	Yes 350 n/a	n/a	48.57 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	9/1/2022	1.8	Yes 350 n/a	n/a	48.57 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	9/1/2022	2.2	Yes 350 n/a	n/a	48.57 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29I	0.16	n/a	9/1/2022	0.71	Yes 350 n/a	n/a	48.57 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26I	37	n/a	8/31/2022	16.4	No 350 n/a	n/a	0.8571n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	37	n/a	8/31/2022	10.8	No 350 n/a	n/a	0.8571n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	37	n/a	9/1/2022	28.2	No 350 n/a	n/a	0.8571n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	9/1/2022	21.3	No 350 n/a	n/a	0.8571n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	37	n/a	9/1/2022	26.3	No 350 n/a	n/a	0.8571n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	37	n/a	9/1/2022	33.1	No 350 n/a	n/a	0.8571n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29I	37	n/a	9/1/2022	11	No 350 n/a	n/a	0.8571n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	12	n/a	8/31/2022	16.6	Yes 350 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	12	n/a	8/31/2022	15	Yes 350 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	12	n/a	9/1/2022	13.4	Yes 350 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	12	n/a	9/1/2022	10.4	No 350 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	12	n/a	9/1/2022	10.4	No 350 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	12	n/a	9/1/2022	16.5	Yes 350 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-29I	12	n/a	9/1/2022	8.1	No 350 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-26I	0.68	n/a	8/31/2022	0.082J	No 419 n/a	n/a	65.63 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	0.68	n/a	8/31/2022	0.076J	No 419 n/a	n/a	65.63 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	0.68	n/a	9/1/2022	0.1	No 419 n/a	n/a	65.63 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	0.68	n/a	9/1/2022	0.12	No 419 n/a	n/a	65.63 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	0.68	n/a	9/1/2022	0.11	No 419 n/a	n/a	65.63 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	0.68	n/a	9/1/2022	0.16	No 419 n/a	n/a	65.63 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29I	0.68	n/a	9/1/2022	0.091J	No 419 n/a	n/a	65.63 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-26I	8.39	4.4	8/31/2022	5.77	No 429 n/a	n/a	0 n/a	n/a		NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-26S	8.39	4.4	8/31/2022	5.61	No 429 n/a	n/a	0 n/a	n/a		NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27I	8.39	4.4	9/1/2022	6.13	No 429 n/a	n/a	0 n/a	n/a		NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27S	8.39	4.4	9/1/2022	6.13	No 429 n/a	n/a	0 n/a	n/a		NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28I	8.39	4.4	9/1/2022	6.41	No 429 n/a	n/a	0 n/a	n/a		NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28S	8.39	4.4	9/1/2022	6.59	No 429 n/a	n/a	0 n/a	n/a		NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-29I	8.39	4.4	9/1/2022	6.05	No 429 n/a	n/a	0 n/a	n/a		NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26I	160	n/a	8/31/2022		No 350 n/a	n/a	6 n/a	n/a		NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26S	160	n/a	8/31/2022		No 350 n/a	n/a	6 n/a	n/a		NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27I	160	n/a	9/1/2022	2.5	No 350 n/a	n/a	6 n/a	n/a		NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27S	160	n/a	9/1/2022	13.5	No 350 n/a	n/a	6 n/a	n/a		NP Inter (normality) 1 of 2 NP Inter (normality) 1 of 2
Sulfate (mg/L) Sulfate (mg/L)	YGWC-28I YGWC-28S	160 160	n/a n/a	9/1/2022 9/1/2022	7.6 13.4	No 350 n/a No 350 n/a	n/a	6 n/a 6 n/a	n/a n/a		NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-29I			9/1/2022			n/a				, -,
Total Dissolved Solids (mg/L)	YGWC-26I	160 209.3	n/a n/a	8/31/2022	21.2 228	No 350 n/a Yes 350 108.1	n/a 54.44	6 n/a 0.5714None	n/a No	0.00004918	NP Inter (normality) 1 of 2 Param Inter 1 of 2
Total Dissolved Solids (mg/L) Total Dissolved Solids (mg/L)	YGWC-26S	209.3	n/a	8/31/2022		No 350 108.1	54.44	0.5714None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27I	209.3	n/a	9/1/2022	193	No 350 108.1	54.44	0.5714None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27S	209.3	n/a	9/1/2022	124	No 350 108.1	54.44	0.5714None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28I	209.3	n/a	9/1/2022	186	No 350 108.1	54.44	0.5714None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	209.3	n/a	9/1/2022	225	Yes 350 108.1	54.44	0.5714None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L) Total Dissolved Solids (mg/L)	YGWC-29I	209.3	n/a	9/1/2022	128	No 350 108.1	54.44	0.5714None	No	0.001075	Param Inter 1 of 2
. I al Biocontou Condo (mg/L)	. 55 251	200.0	.,,	J, _ UZE	.20	100.1	·			3.55.010	

Appendix III Trend Tests - Prediction Limits - Significant Results

	Plant Yates	Data: Yates	Ash Pond	2 Printed	10/12	2/2022,	1:28 PM	1			
Constituent	Well	Slope	Calc.	Critical	Sig.	<u>N</u>	%NDs	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Boron (mg/L)	YGWC-26I	-0.04321	-87	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-29I	-0.02727	-92	-74	Yes	19	0	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
Chloride (mg/L)	YGWA-3D (bg)	-0.0435	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26I	-0.3776	-77	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26S	-0.5557	-95	-74	Yes	19	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-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-40 (bg)	0.326	66	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
Chloride (mg/L)	GWA-2 (bg)	0.2567	74	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-14.82	-90	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	30.24	64	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-12.99	-99	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-2 (bg)	21.5	67	63	Yes	17	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limits - All Results

Client: Southern Company Data: Yates Ash Pond 2 Printed 10/12/2022, 1:28 PM Constituent Well Calc. Critical Sig. N %NDs Normality Xform <u>Alpha</u> Method 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-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 0.01 NΡ YGWA-2I (bg) 0 NP Boron (mg/L) -6 No 19 78.95 n/a n/a 0.01 Boron (mg/L) YGWA-30I (bg) -19 No 19 84.21 n/a 0.01 NP n/a 0 Boron (mg/L) YGWA-3D (bg) 0 No 19 0.01 NP n/a n/a YGWA-3I (bg) -74 0.01 NP Boron (mg/L) -17 19 89.47 No n/a n/a YGWC-26I -0.04321 -87 -74 0 NP Boron (ma/L) Yes 19 n/a n/a 0.01 YGWC-26S 0.01343 NP 55 74 0 0.01 Boron (mg/L) No 19 n/a n/a Boron (mg/L) YGWC-27I 0.06844 60 74 No 19 0 n/a n/a 0.01 NP YGWC-27S -0.04234 NP Boron (mg/L) -52 -74 No 19 0 n/a n/a 0.01 YGWC-28I -0.02927 0 NP Boron (mg/L) -18 -74 No 19 n/a n/a 0.01 YGWC-28S n NP Boron (mg/L) -5 -74 No 19 0 n/a n/a 0.01 Boron (mg/L) YGWC-29I -0.02727 -92 -74 Yes 19 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-17S (bg) 0.0001704 22 74 No 19 10.53 n/a 0.01 NP Boron (mg/L) YGWA-18I (bg) -22 No 19 0.01 NP YGWA-18S (bg) 0.000309 24 74 No 19 21.05 0.01 NP Boron (mg/L) Boron (mg/L) YGWA-20S (bg) 0 -9 -74 No 19 n/a 0.01 NP NP Boron (mg/L) YGWA-21I (bg) -0.0004731 -56 No 19 57.89 0.01 n/a n/a Boron (mg/L) YGWA-39 (bg) 0.01331 56 58 16 6.25 0.01 NΡ No n/a n/a YGWA-40 (bg) -0.01529 -77 -58 NP Boron (mg/L) Yes 16 0 n/a n/a 0.01 0 YGWA-4I (bg) NP Boron (mg/L) 74 No 19 68.42 0.01 n/a n/a YGWA-5D (bg) 0.0003037 NP Boron (ma/L) 31 74 No 19 10.53 n/a n/a 0.01 YGWA-5I (bg) NP Boron (mg/L) 0 -25 -74 63.16 0.01 No 19 n/a n/a Boron (mg/L) GWA-2 (bg) 0 23 63 No 17 64.71 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 0 Chloride (mg/L) YGWA-1D (bg) -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-2I (bg) -0.02221 -34 -74 No 19 0 n/a 0.01 NΡ Chloride (mg/L) YGWA-30I (bg) 0 -8 -74 No 19 0 n/a n/a 0.01 NP Chloride (mg/L) YGWA-3D (bg) -0.0435 -80 -74 19 0 0.01 NP Chloride (mg/L) YGWA-3I (bg) -0.02929 -65 -74 19 0 n/a n/a 0.01 NP Chloride (mg/L) YGWC-26I -0.3776 -77 -74 19 0 0.01 NP Yes n/a n/a Chloride (mg/L) YGWC-26S -0.5557 -95 -74 19 0 n/a 0.01 ΝP Yes n/a Chloride (mg/L) YGWC-27I -74 0 NP -21 19 0.01 No n/a n/a YGWC-28S -0.2465 -74 0 0.01 NP Chloride (mg/L) -49 19 No n/a n/a YGWA-47 (bg) Chloride (mg/L) -0.4528 -84 -58 Yes 16 0 n/a n/a 0.01 NP YGWA-17S (ba) 0.5433 NP Chloride (mg/L) 127 74 19 0 0.01 Yes n/a n/a Chloride (mg/L) YGWA-18I (ba) 0.1027 78 74 Yes 19 0 n/a n/a 0.01 NP Chloride (mg/L) YGWA-18S (bg) 0.1557 74 NP 72 No 19 0 n/a n/a 0.01 Chloride (mg/L) YGWA-20S (bg) 0.1337 107 74 Yes 19 0 n/a n/a 0.01 NP YGWA-21I (bg) NP Chloride (mg/L) -0 1148 -56 -74 No 19 0 n/a n/a 0.01 Chloride (mg/L) YGWA-39 (bg) 0.768 51 58 No 16 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-4I (bg) 0.08123 41 74 19 0 0.01 ΝP No n/a Chloride (mg/L) YGWA-5D (bg) -0.7454 -124 -74 Yes 19 0 n/a n/a 0.01 NP YGWA-5I (bg) 0 74 NP Chloride (mg/L) 5 No 19 0 n/a n/a 0.01 Chloride (mg/L) GWA-2 (bg) 0.2567 74 63 17 0 n/a n/a 0.01 ΝP Yes

Appendix III Trend Tests - Prediction Limits - All Results

	Plant Yates (Client: Southern Company	Data: Yates	Ash Pond	2 Printed	10/12	2/2022,	1:28 PN	1			
Constituent	Well		Slope	Calc.	Critical	Sig.	<u>N</u>	%NDs	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Total Dissolved Solids (mg/L)	YGWA-14S (bg)		0.3698	12	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)		0.7444	13	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1I (bg)		-2.443	-37	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-2I (bg)		-1.72	-28	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-30I (bg)		2.114	27	74	No	19	10.53	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)		0.7739	9	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3I (bg)		0.954	9	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-26I		-0.5252	-6	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-28S		-1.335	-9	-74	No	19	5.263	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)		-14.82	-90	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-17S (bg)		3.694	44	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18I (bg)		-0.8196	-19	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18S (bg)		0.4345	10	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-20S (bg)		2.688	34	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)		10.54	68	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)		30.24	64	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-40 (bg)		-11.03	-58	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-4I (bg)		0	-1	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)		-12.99	-99	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5I (bg)		0	3	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-2 (bg)		21.5	67	63	Yes	17	0	n/a	n/a	0.01	NP

Upper Tolerance Limit Summary Table

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/12/2022, 1:41 PM

Constituent	Well	Upper Lin	n. Lower Lin	n. <u>Date</u>	Observ.	Sig.Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transforn	n <u>Alpha</u>	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)

YATES ASH POND 2 GWPS									
		CCR-Rule	Background						
Constituent Name	MCL	Specified	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)		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)		0.015	0.0013	0.015					
Lithium, Total (mg/L)		0.04	0.03	0.04					
Mercury, Total (mg/L)	0.002		0.00064	0.002					
Molybdenum, Total (mg/L)		0.1	0.014	0.1					
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 or CCR Rule Specified Level

^{*}MCL = Maximum Contaminant Level

^{*}CCR = Coal Combustion Residual

^{*}GWPS = Groundwater Protection Standard

Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/12/2022, 1:45 PM

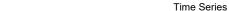
Constituent	<u>Well</u>	Upper Lim.	Lower Lim.	Complianc	e Lower Compl.	Sig.	N Mean	Std. Dev.	%NDs	<u>ND Adj.</u>	Transform	<u>Alpha</u>	Method
Antimony (mg/L)	YGWC-26I	0.003	0.001	0.006	n/a	No	18 0.002617	0.0008852	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	n/a	No	18 0.00285	0.0004369	88.89	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	n/a	No	18 0.002852	0.0006293	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	n/a	No	18 0.00285	0.0006364	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29I	0.003	0.0013	0.006	n/a	No	18 0.002906	0.0004007	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26I	0.005	0.0028	0.01	n/a	No	22 0.0049	0.000469	95.45	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26S	0.005	0.0032	0.01	n/a	No	22 0.004918	0.0003838	95.45	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.00069	0.01	n/a	No	22 0.003384	0.002106	59.09	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27S	0.005	0.0019	0.01	n/a	No	22 0.004859	0.0006609	95.45	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28I	0.005	0.0021	0.01	n/a	No	22 0.004868	0.0006183	95.45	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.0007	0.01	n/a	No	22 0.003396	0.002103	59.09	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-29I	0.005	0.0033	0.01	n/a	No	22 0.004923	0.0003624	95.45	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06586	0.06224	2	n/a	No	22 0.06405	0.003371	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02857	0.02615	2	n/a	No	22 0.02736	0.002251	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.07429	0.0662	2	n/a	No	22 0.07043	0.007667	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	YGWC-27S	0.1028	0.08614	2	n/a	No	22 0.09447	0.01551	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28I	0.08914	0.08214	2	n/a	No	22 0.08564	0.006525	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.2208	0.196	2	n/a	No	22 0.2041	0.03667	0	None	x^3	0.01	Param.
Barium (mg/L)	YGWC-29I	0.0725	0.057	2	n/a	No	22 0.0718	0.03199	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0002048	0.0001127	0.004	n/a	No	20 0.0001767		10	None	ln(x)	0.01	Param.
Beryllium (mg/L)	YGWC-27I	0.0002555	0.0001418	0.004	n/a	No	20 0.0002183		15	None	ln(x)	0.01	Param.
Beryllium (mg/L)	YGWC-27S	0.0005	0.00011	0.004	n/a	No	20 0.0004588		90	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.0002875	0.0001345	0.005	n/a	No	20 0.000244	0.0001665	10	None	ln(x)	0.01	Param.
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	n/a	No	20 0.000499	0.000004472		None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29I	0.0003061	0.0001768	0.005	n/a	No	20 0.00025	0.0001228	15	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	YGWC-26I	0.005	0.00067	0.1	n/a	No	20 0.003472	0.002128	60	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002218	0.001077	0.1	n/a	No	20 0.002699	0.001764	25	Kaplan-Meier		0.01	Param.
Chromium (mg/L)	YGWC-27I	0.012	0.005	0.1	n/a	No	20 0.00535	0.001565	95	Kaplan-Meier	. ,	0.01	NP (NDs)
Chromium (mg/L)	YGWC-27S	0.005	0.0041	0.1	n/a	No	20 0.004672	0.002932	70	Kaplan-Meier		0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	n/a	No	20 0.00432	0.00166	85	Kaplan-Meier		0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0006	0.1	n/a	No	20 0.004329	0.001638	85	Kaplan-Meier		0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.005	0.0005	0.1	n/a	No	20 0.004775	0.001006	95	Kaplan-Meier		0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002713	0.001916	0.035	n/a	No	22 0.002355	0.0008064		None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.01438	0.003531	0.035	n/a	No	22 0.0169	0.02524	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.0025	0.0022	0.035	n/a	No	22 0.002405	0.0006579		None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	n/a	No	22 0.004792	0.0009765		None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00091	0.035	n/a	No	22 0.001348	0.001191		None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.00094	0.035	n/a	No	22 0.004003	0.001885		None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L		1.031	0.4627	6.92	n/a	No	21 0.747	0.5154		None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L	•	0.8376	0.5376	6.92	n/a	No	22 0.6876	0.2794		None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L	.) YGWC-27I	3.837	2.557	6.92	n/a	No	22 3.197	1.193	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L	.) YGWC-27S	1.016	0.6208	6.92	n/a	No	22 0.8185	0.3682	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L	.) YGWC-28I	0.8358	0.4705	6.92	n/a	No	22 0.6531	0.3403	4.545	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L) YGWC-28S	0.9184	0.5085	6.92	n/a	No	22 0.7134	0.3818		None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L		1.069	0.6371	6.92	n/a	No	22 0.8529	0.4021	4.545	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.064	4	n/a	No	23 0.084	0.02018		None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.076	4	n/a	No	23 0.1278	0.09345		None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.1	0.07	4	n/a	No	23 0.09096	0.02523		None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.1863	0.09639	4	n/a	No	23 0.1559	0.09941		Kaplan-Meier		0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.12	0.078	4	n/a	No	23 0.1226	0.0776		None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2523	0.152	4	n/a	No	23 0.2021	0.09584	8.696	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.08971	0.06021	4	n/a	No	23 0.08596	0.0301	30.43	Kaplan-Meier	x^(1/3)	0.01	Param.

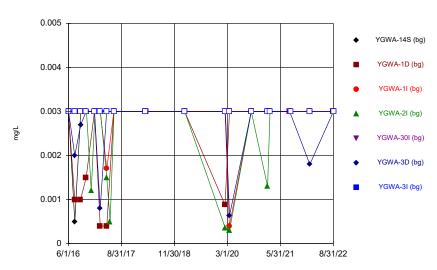
Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/12/2022, 1:45 PM

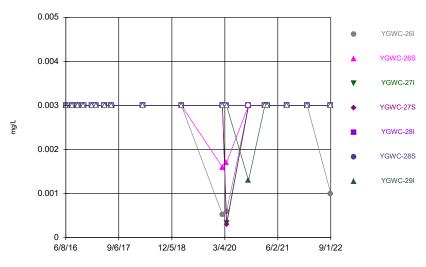
Constituent	Well	Upper Lim.	Lower Lim.	Complianc	e Lower Compl.	Sig.	N Mean	Std. Dev.	%ND	s ND Adj.	Transform	Alpha	Method
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.015	n/a	No	18 0.000895	0.0003056	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.00008	0.015	n/a	No	18 0.0007417	0.0004287	72.22	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.001	0.00037	0.015	n/a	No	18 0.0007998	0.0003525	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.001	0.00007	0.015	n/a	No	18 0.0007397	0.000432	72.22	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29I	0.001	0.00016	0.015	n/a	No	18 0.0008512	0.0003428	83.33	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007313	0.006641	0.04	n/a	No	22 0.006977	0.0006264	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.009973	0.007809	0.04	n/a	No	22 0.008891	0.002016	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.0013	0.04	n/a	No	22 0.02737	0.008517	90.91	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.007079	0.006675	0.04	n/a	No	22 0.006877	0.0003766	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.04	n/a	No	22 0.02888	0.005266	95.45	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29I	0.0066	0.0053	0.04	n/a	No	22 0.007018	0.005198	4.545	None	No	0.01	NP (normality)
Mercury (mg/L)	YGWC-26I	0.0002	0.000051	0.002	n/a	No	16 0.0001814	0.00005089	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-26S	0.0002	0.000066	0.002	n/a	No	16 0.0001822	0.00004877	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27I	0.0002	0.000054	0.002	n/a	No	16 0.0001812	0.00005143	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27S	0.0002	0.00019	0.002	n/a	No	16 0.00018	0.00005278	81.25	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28I	0.0002	0.000048	0.002	n/a	No	16 0.0001905	0.000038	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28S	0.0002	0.000052	0.002	n/a	No	16 0.0001907	0.000037	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-29I	0.0002	0.000047	0.002	n/a	No	16 0.0001804	0.00005365	87.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-27I	0.01	0.0015	0.1	n/a	No	22 0.005477	0.004267	45.45	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.1	n/a	No	22 0.004814	0.004418	40.91	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00083	0.1	n/a	No	22 0.007895	0.003972	77.27	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29I	0.01	0.00083	0.1	n/a	No	22 0.009583	0.001955	95.45	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.003014	0.001996	0.05	n/a	No	20 0.002625	0.001076	10	None	ln(x)	0.01	Param.
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	n/a	No	20 0.004215	0.001624	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	n/a	No	20 0.00481	0.0008497	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	n/a	No	20 0.0048	0.0008944	95	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-26S	0.001	0.000057	0.002	n/a	No	16 0.000882	0.0003224	87.5	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-27S	0.001	0.0001	0.002	n/a	No	16 0.0006644	0.0004475	62.5	None	No	0.01	NP (NDs)

FIGURE A.



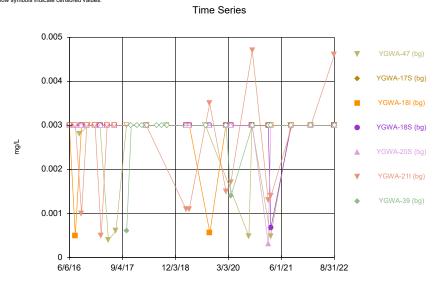


Constituent: Antimony Analysis Run 10/13/2022 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

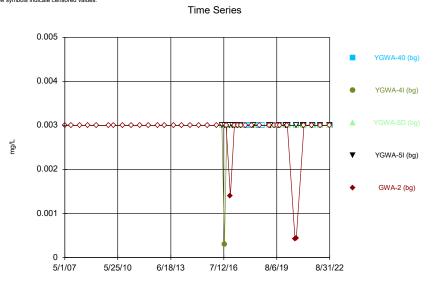


Constituent: Antimony Analysis Run 10/13/2022 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

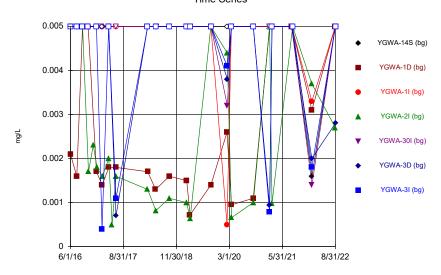


Constituent: Antimony Analysis Run 10/13/2022 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

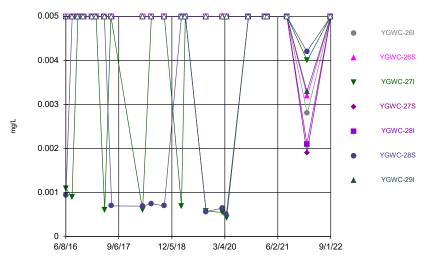


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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



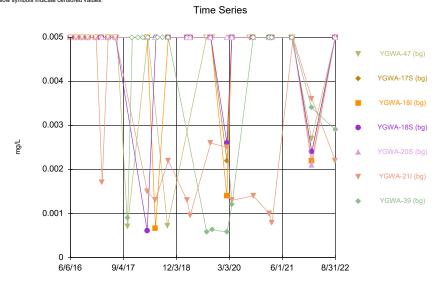


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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

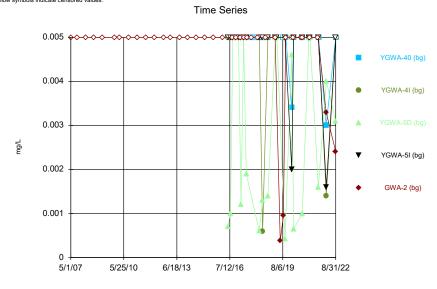


Constituent: Arsenic Analysis Run 10/13/2022 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Arsenic Analysis Run 10/13/2022 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



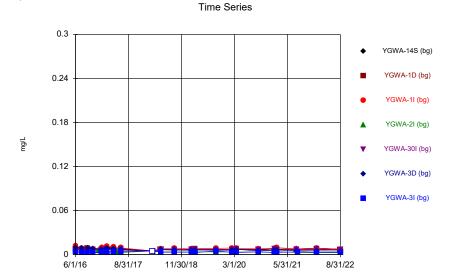
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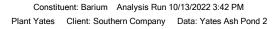
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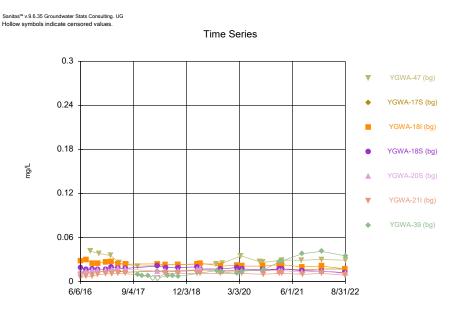
5/1/07

5/25/10

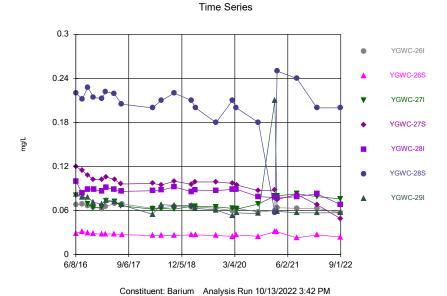
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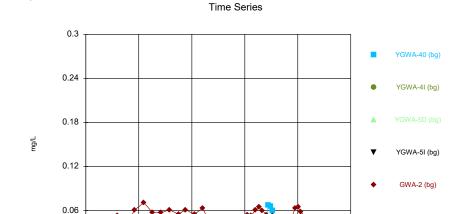




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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Barium Analysis Run 10/13/2022 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

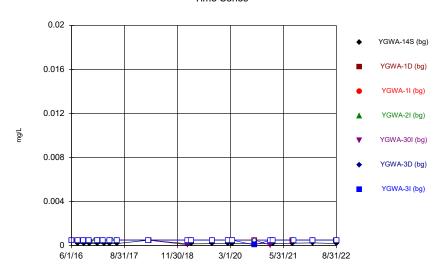
6/18/13

7/12/16

8/6/19

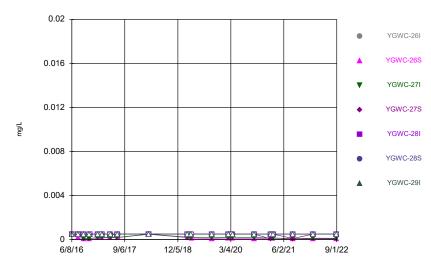
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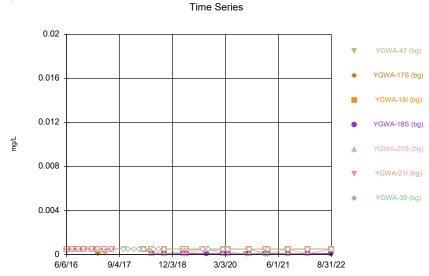
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



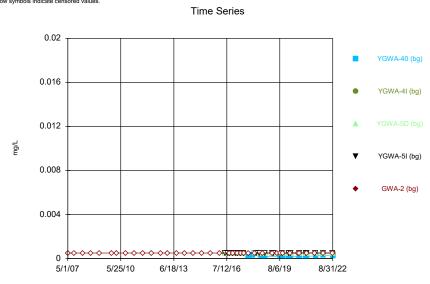
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

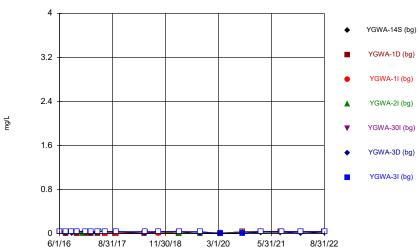


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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

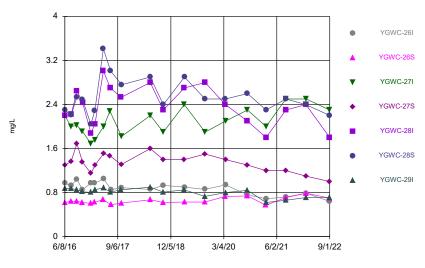
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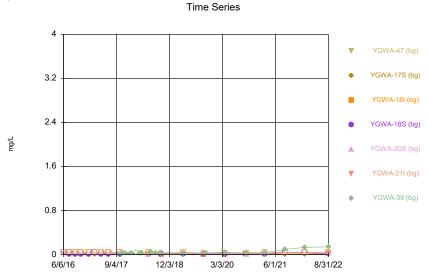


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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



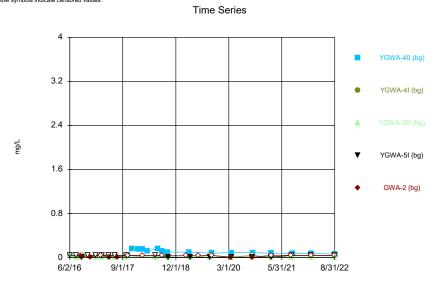
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

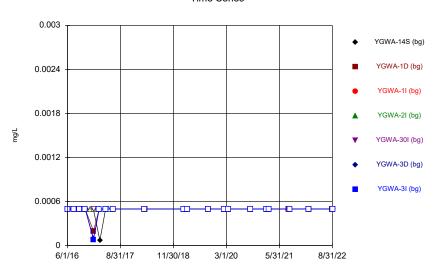


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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

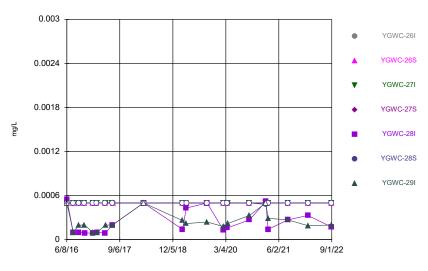
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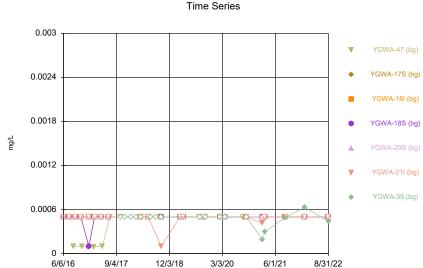


Constituent: Cadmium Analysis Run 10/13/2022 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



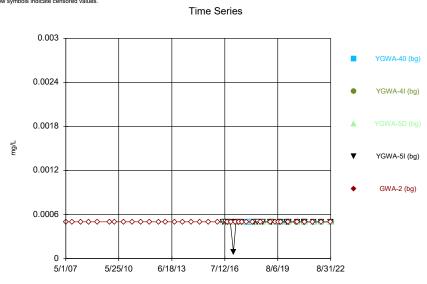
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

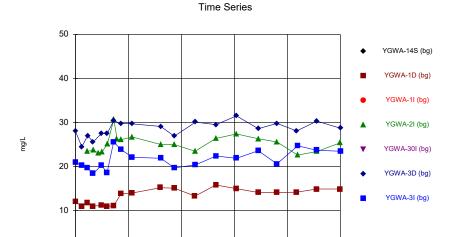


Constituent: Cadmium Analysis Run 10/13/2022 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



6/1/16



Constituent: Calcium Analysis Run 10/13/2022 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

11/30/18

3/1/20

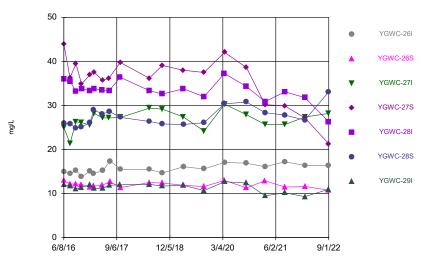
5/31/21

8/31/22

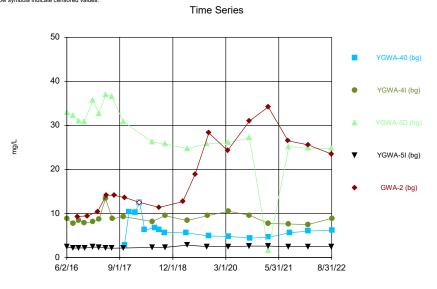
Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG Time Series 50 YGWA-47 (bg) YGWA-17S (bg) 40 YGWA-18I (bg) YGWA-18S (bg) mg/L 20 YGWA-21I (bg) YGWA-39 (bg) 10 6/6/16 9/4/17 12/3/18 3/3/20 6/1/21 8/31/22

Constituent: Calcium Analysis Run 10/13/2022 3:42 PM

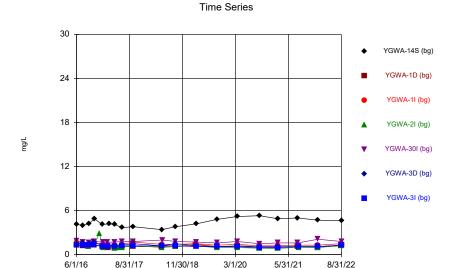




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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

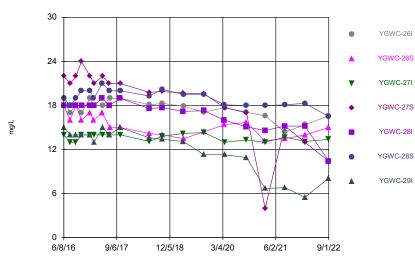


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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Chloride Analysis Run 10/13/2022 3:42 PM

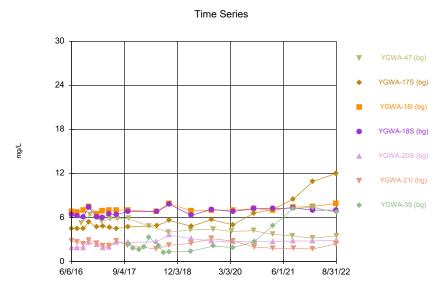
11/30/18



Time Series

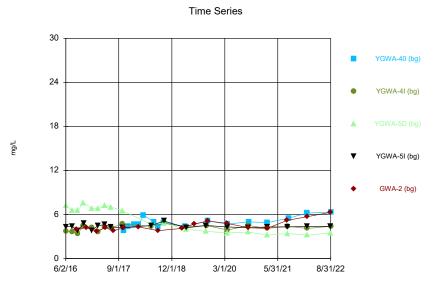
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Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG



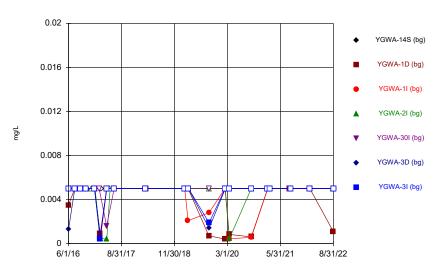
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Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG



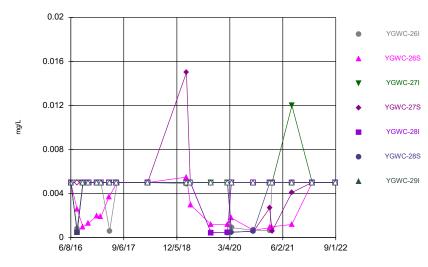
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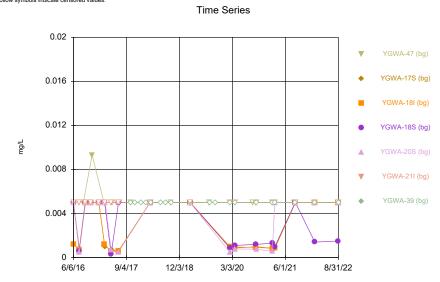
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



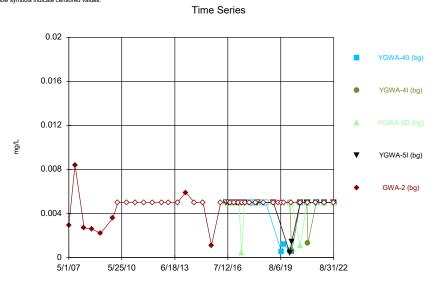
Constituent: Chromium Analysis Run 10/13/2022 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

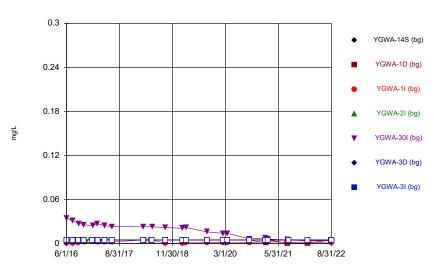


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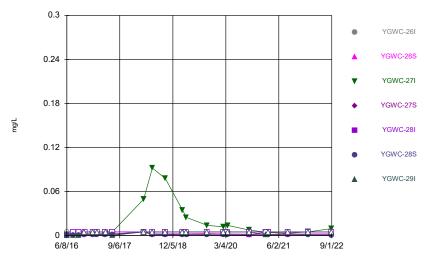
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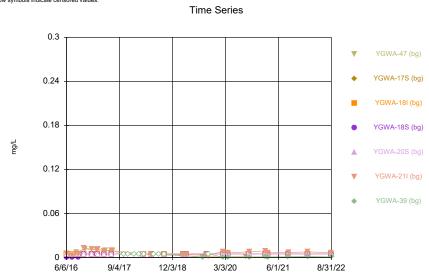


Constituent: Cobalt Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



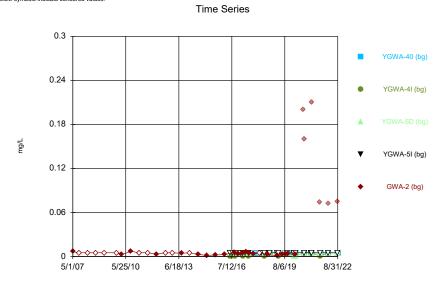
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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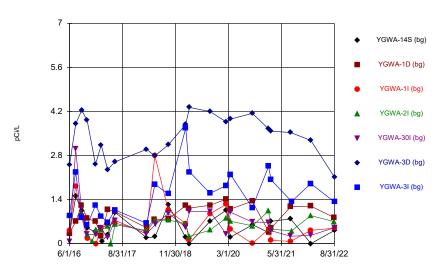


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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

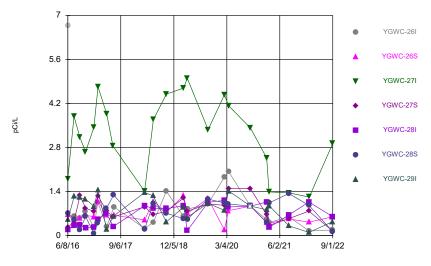
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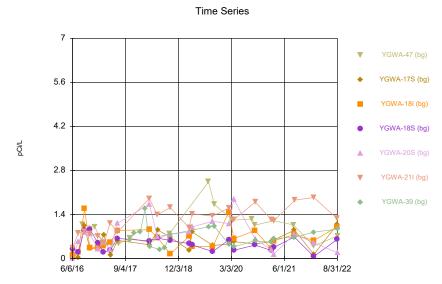


Constituent: Combined Radium 226 + 228 Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



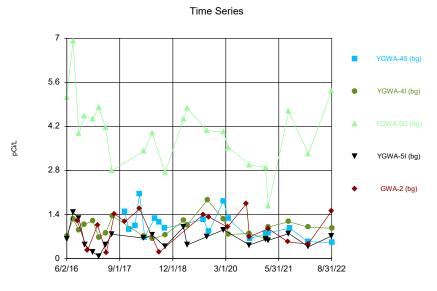
Constituent: Combined Radium 226 + 228 Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas[™] v.9.6.35 Groundwater Stats Consulting. UG



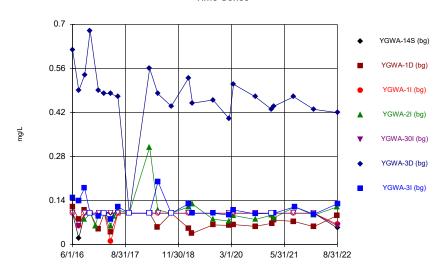
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG



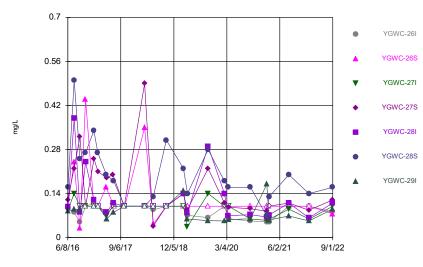
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2





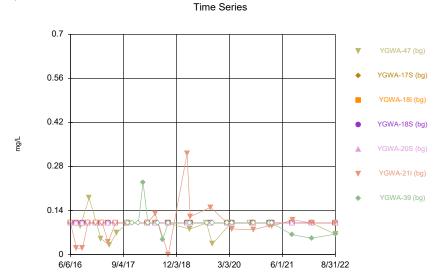
Constituent: Fluoride Analysis Run 10/13/2022 3:43 PM Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series

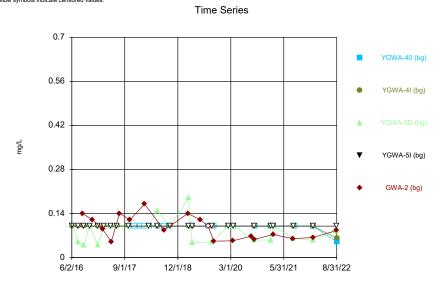


Constituent: Fluoride Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

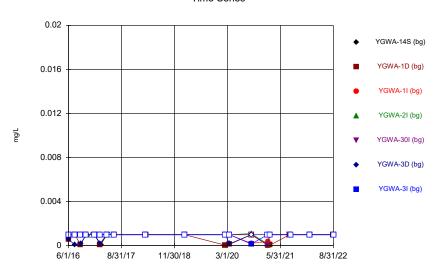


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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



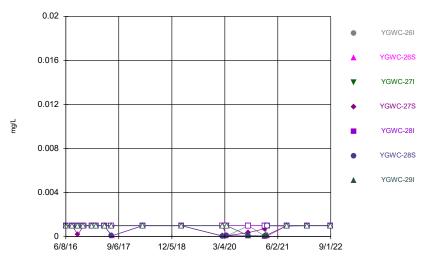
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2





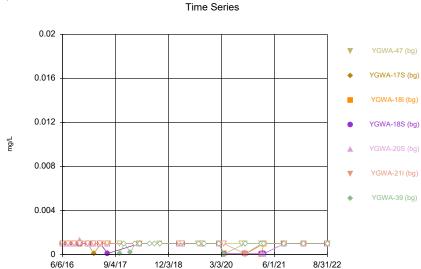
Constituent: Lead Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



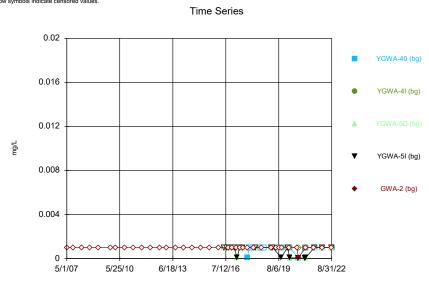
Constituent: Lead Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

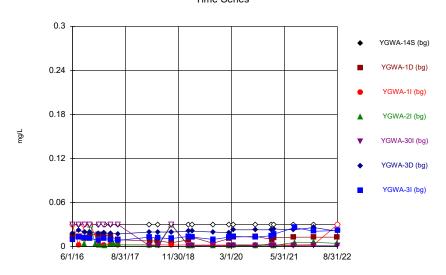


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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

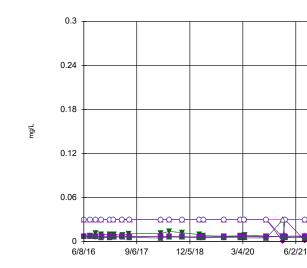
Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.







Constituent: Lithium Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Lithium Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

YGWC-26I

YGWC-26S

YGWC-27I

YGWC-27S

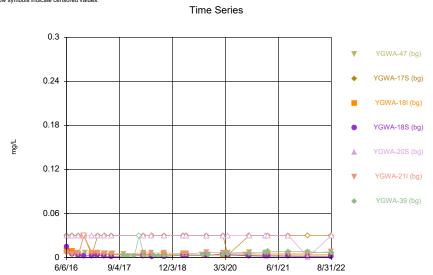
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YGWC-28S

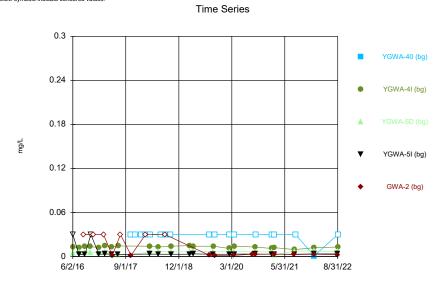
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9/1/22

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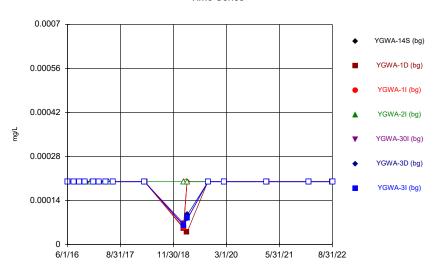


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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



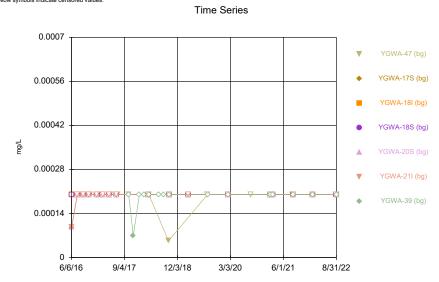
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2





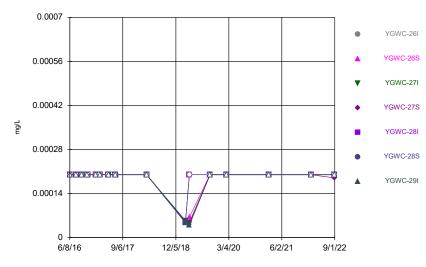
Constituent: Mercury Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

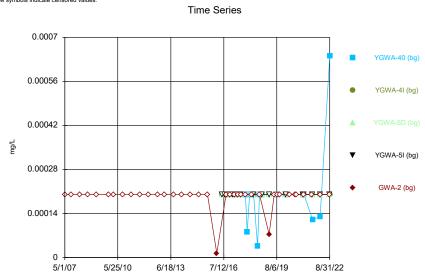


Constituent: Mercury Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series

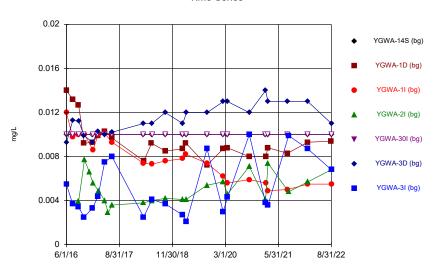


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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



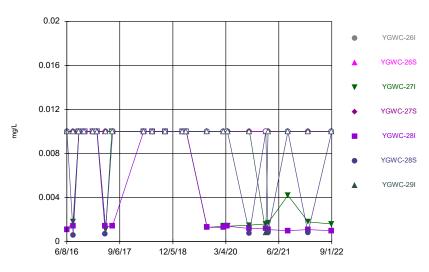
Constituent: Mercury Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2





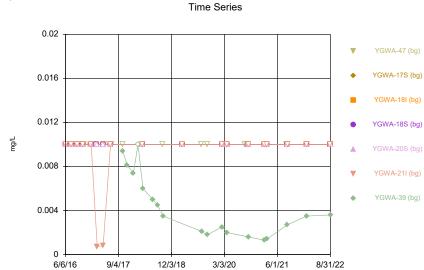
Constituent: Molybdenum Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



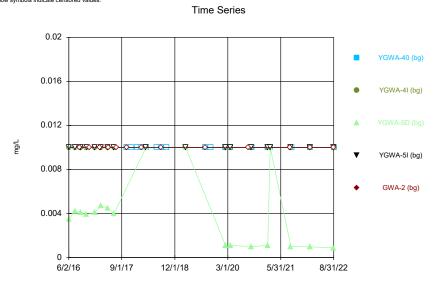
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

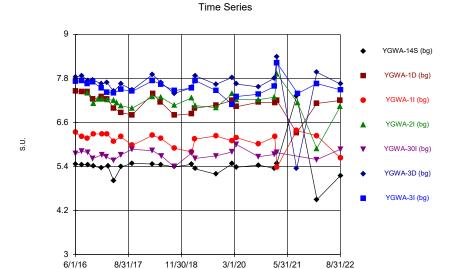
Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



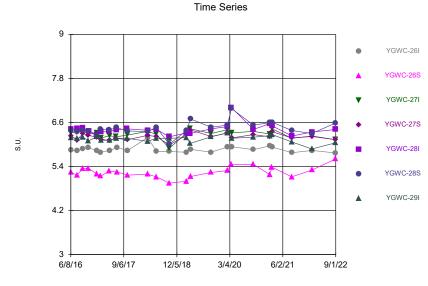
Constituent: Molybdenum Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



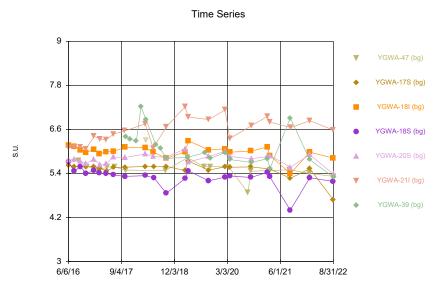


Constituent: pH Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



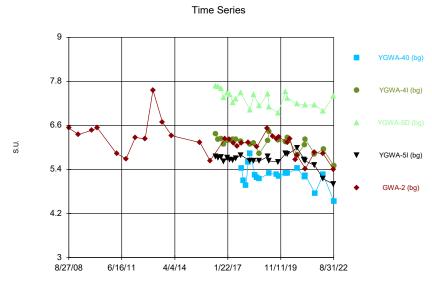
Constituent: pH Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG



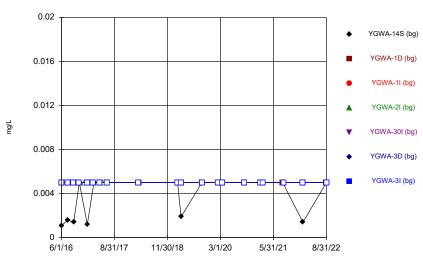
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG



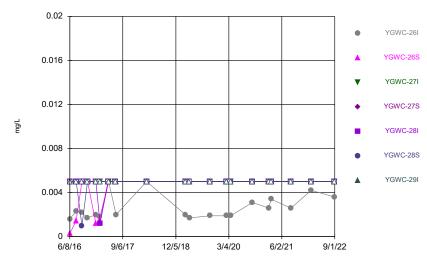
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2





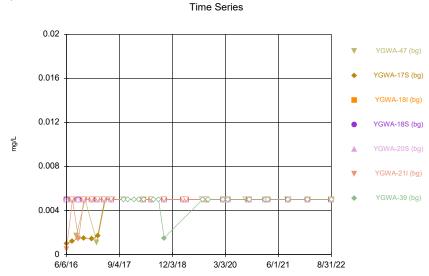
Constituent: Selenium Analysis Run 10/13/2022 3:43 PM

Time Series



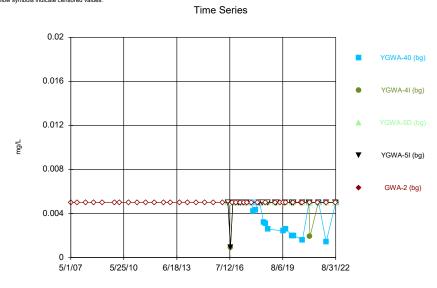
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Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG Hollow symbols indicate censored values

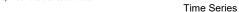


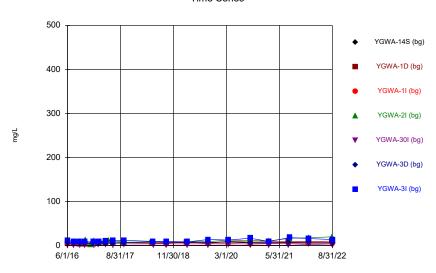
Constituent: Selenium Analysis Run 10/13/2022 3:43 PM

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

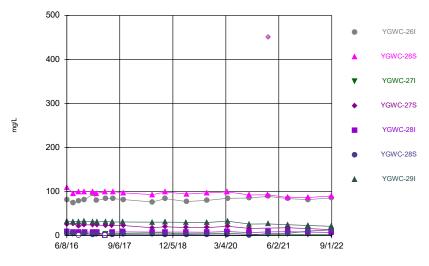


Constituent: Selenium Analysis Run 10/13/2022 3:43 PM



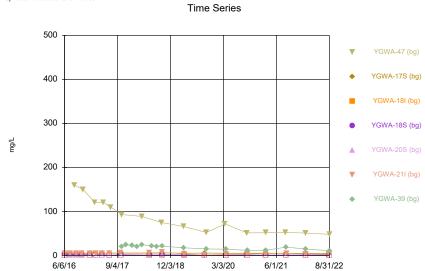


Constituent: Sulfate Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



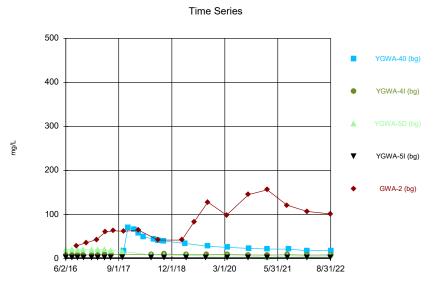
Constituent: Sulfate Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



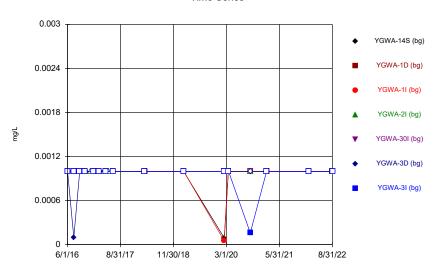
Constituent: Sulfate Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

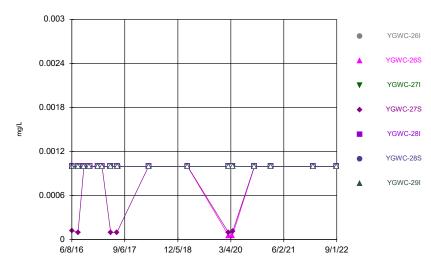


Constituent: Sulfate Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



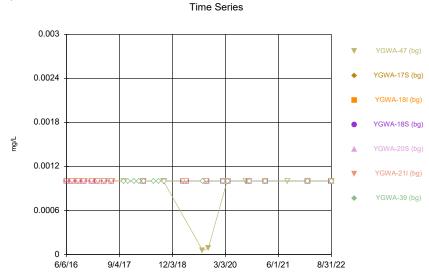


Constituent: Thallium Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

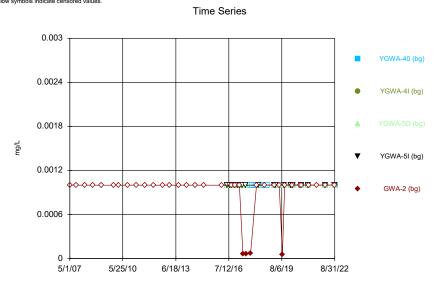


Constituent: Thallium Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

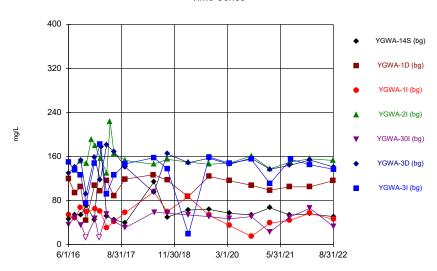


Constituent: Thallium Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

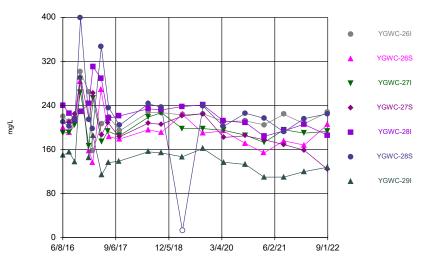


Constituent: Thallium Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



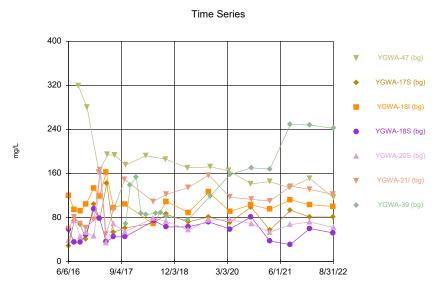


Constituent: Total Dissolved Solids Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



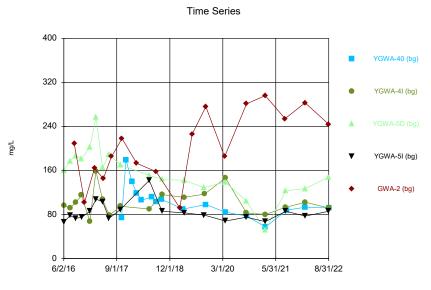
Constituent: Total Dissolved Solids Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG



Constituent: Total Dissolved Solids Analysis Run 10/13/2022 3:43 PM

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG



Constituent: Total Dissolved Solids Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.003	<0.003				<0.003
6/2/2016	<0.003				<0.003	<0.003	
7/25/2016			<0.003		<0.003		<0.003
7/26/2016	0.0005 (J)	0.001 (J)				0.002 (J)	
9/13/2016		0.001 (J)	<0.003				
9/14/2016				<0.003			<0.003
9/15/2016	<0.003					0.0027 (J)	
9/19/2016					<0.003		
11/1/2016		0.0015 (J)			<0.003	<0.003	<0.003
11/2/2016	<0.003						
11/4/2016			<0.003	<0.003			
12/15/2016				0.0012 (J)			
1/10/2017	<0.003						
1/11/2017		<0.003				<0.003	<0.003
1/16/2017			<0.003	<0.003	<0.003		
2/21/2017					<0.003		
3/1/2017							<0.003
3/2/2017		0.0004 (J)	<0.003			0.0008 (J)	
3/3/2017		(-,		<0.003		(-,	
3/8/2017	<0.003						
4/26/2017	<0.003				<0.003	<0.003	<0.003
4/27/2017	0.000	0.0004 (J)	0.0017 (J)		0.000	0.000	0.000
4/28/2017		0.000 . (0)	0.0017 (0)	0.0015 (J)			
5/26/2017				0.0005 (J)			
6/27/2017		<0.003	<0.003	0.0000 (0)			
6/28/2017		10.000	-0.000	<0.003		<0.003	<0.003
6/30/2017	<0.003			10.003	<0.003	10.000	40.000
3/27/2018	<0.003		<0.003		<0.003		
3/28/2018	-0.003		10.003	<0.003	10.003	<0.003	<0.003
3/29/2018		<0.003		10.003		10.000	40.000
2/26/2019	<0.003	~0.003			<0.003		
2/27/2019	-0.003	<0.003	<0.003	<0.003	10.003	<0.003	<0.003
2/10/2020		0.00088 (J)	<0.003	10.003		10.000	40.000
2/11/2020		0.00088 (3)	~0.003	0.00036 (J)			<0.003
2/11/2020	<0.003			0.00030 (3)	<0.003	<0.003	40.003
3/18/2020	<0.003		0.0004 (J)		~0.003	10.003	
3/19/2020	~ 0.003	<0.003	0.0004 (3)	0.0003 (J)	<0.003	0.00064 (J)	<0.003
9/23/2020		<0.003	<0.003	<0.003	~0.003	<0.003	<0.003
9/24/2020		~0.003	~0.003	~0.003	<0.003	10.003	40.003
9/25/2020	<0.003				~0.003		
2/10/2021	<0.003			0.0013 (J)		<0.003	<0.003
2/11/2021	<0.003			0.0013 (3)	<0.003	<0.003	<0.003
		<0.003	<0.003		~0.003		
2/12/2021		<0.003	<0.003		-0.002		
3/1/2021	<0.003				<0.003		
3/2/2021	<0.003	<0.003	<0.003	<0.003		<0.003	~0.003
3/3/2021	-0.002	<0.003	<0.003	<0.003	<0.002	<0.003	<0.003
8/19/2021	<0.003	<0.003	<0.003	<0.002	<0.003	<0.003	~0.002
8/27/2021		<0.003	<0.003	<0.003		0.0018 / 1)	<0.003
2/9/2022	-0.002	<0.003	<0.003	<0.003		0.0018 (J)	<0.003
2/10/2022	<0.003				<0.002		
2/11/2022		<0.003		<0.002	<0.003		
8/30/2022		<0.003		<0.003			

Constituent: Antimony (mg/L) Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

YGWA-14S (bg) YGWA-1D (bg) YGWA-1I (bg) YGWA-2I (bg) YGWA-30I (bg) YGWA-3D (bg) YGWA-3I (bg) 8/31/2022 <0.003 <0.003 <0.003 <0.003 <0.003

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.003	<0.003	<0.003	<0.003			
6/9/2016					<0.003	<0.003	<0.003
8/1/2016	<0.003	<0.003	<0.003	<0.003			
8/2/2016					<0.003	<0.003	<0.003
9/20/2016	<0.003	<0.003	<0.003	<0.003			
9/21/2016					<0.003	<0.003	<0.003
11/7/2016	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003
11/8/2016					<0.003		
1/18/2017	<0.003	<0.003	<0.003		<0.003	<0.003	
1/19/2017				<0.003			<0.003
2/21/2017	<0.003	<0.003				<0.003	
2/22/2017				<0.003	<0.003		<0.003
2/23/2017			<0.003				
5/3/2017		<0.003					
5/5/2017					<0.003	<0.003	
5/8/2017	<0.003		<0.003	<0.003			<0.003
6/30/2017			<0.003	<0.003			
7/5/2017					<0.003		<0.003
7/7/2017						<0.003	
7/10/2017	<0.003	<0.003					
3/29/2018			<0.003	<0.003			<0.003
3/30/2018	<0.003	<0.003			<0.003	<0.003	
2/27/2019	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/13/2020	0.00052 (J)	0.0016 (J)	<0.003	<0.003	<0.003	<0.003	<0.003
3/19/2020		0.0017 (J)			<0.003	<0.003	
3/20/2020	0.00059 (J)		0.00033 (J)	0.0003 (J)			<0.003
9/24/2020	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0013 (J)
2/10/2021	<0.003	<0.003	<0.003	<0.003			
2/11/2021					<0.003		
2/12/2021						<0.003	<0.003
3/2/2021		<0.003					
3/3/2021	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003
8/19/2021		<0.003					
8/20/2021	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003
2/8/2022				<0.003	<0.003	<0.003	<0.003
2/10/2022	<0.003	<0.003	<0.003				
8/31/2022	0.001 (J)	<0.003					
9/1/2022			<0.003	<0.003	<0.003	<0.003	<0.003

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.003	<0.003			
6/7/2016		<0.003			<0.003	<0.003	
7/27/2016		<0.003	0.0005 (J)	<0.003	<0.003		
7/28/2016						<0.003	
8/30/2016	0.0028 (J)						
9/16/2016	. ,	<0.003		<0.003			
9/19/2016			<0.003		<0.003	0.001 (J)	
11/2/2016					<0.003	(,,	
11/3/2016		<0.003	<0.003	<0.003		<0.003	
11/14/2016	<0.003						
1/11/2017		<0.003	<0.003	<0.003			
1/13/2017					<0.003	<0.003	
2/24/2017	<0.003				0.000	0.000	
3/1/2017	0.000		<0.003	<0.003			
3/2/2017		<0.003	-0.000	-0.000			
3/6/2017		10.003			<0.003	0.0005 (J)	
4/26/2017			<0.003	<0.003	<0.003	<0.003	
5/2/2017		<0.003	.0.003	10.000	.0.000	.0.000	
	0.000471	~ 0.003					
5/8/2017	0.0004 (J)		<0.003	<0.003			
6/28/2017		-0.000	<0.003	<0.003	-0.000	-0.000	
6/29/2017	0.0000 (1)	<0.003			<0.003	<0.003	
7/11/2017	0.0006 (J)						
10/10/2017	<0.003						2 2222 (1)
10/11/2017							0.0006 (J)
11/20/2017							<0.003
1/11/2018							<0.003
2/20/2018							<0.003
3/28/2018		<0.003	<0.003	<0.003			
3/29/2018					<0.003	<0.003	
4/2/2018	<0.003						
4/3/2018							<0.003
6/28/2018							<0.003
8/7/2018							<0.003
9/19/2018	<0.003						
9/24/2018							<0.003
3/5/2019		<0.003		<0.003	<0.003	0.0011 (J)	
3/6/2019			<0.003				
4/2/2019		<0.003				0.0011 (J)	
4/3/2019			<0.003	<0.003	<0.003		
8/20/2019	<0.003						
8/21/2019							<0.003
9/24/2019						0.0035	
9/25/2019		<0.003			<0.003		
9/26/2019			0.00056 (J)	<0.003			
2/11/2020		<0.003	<0.003	<0.003			
2/12/2020					<0.003	0.0015 (J)	<0.003
3/24/2020		<0.003	<0.003	<0.003	<0.003	0.0017 (J)	
3/25/2020							0.0014 (J)
8/27/2020	0.00048 (J)						
9/22/2020	<0.003						
9/23/2020		<0.003	<0.003	<0.003			
9/24/2020					<0.003	0.0047	<0.003

2/9/2021	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg) <0.003	YGWA-18S (bg) <0.003	YGWA-20S (bg) 0.00032 (J)	YGWA-21I (bg) 0.0013 (J)	YGWA-39 (bg)
2/10/2021							<0.003
3/1/2021	0.00048 (J)						
3/3/2021		<0.003	<0.003	0.00067 (J)	<0.003		
3/4/2021						0.0014 (J)	<0.003
8/19/2021	<0.003						
8/26/2021				<0.003			<0.003
8/27/2021		<0.003	<0.003		<0.003		
9/1/2021						<0.003	
2/8/2022	<0.003						<0.003
2/9/2022		<0.003	<0.003	<0.003	<0.003	<0.003	
8/30/2022		<0.003	<0.003	<0.003		0.0046	
8/31/2022	<0.003				<0.003		<0.003

					· · · · · · · · · · · · · · · · · · ·
	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
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
6/2/2016		<0.003	<0.003	<0.003	40.000
7/26/2016		0.0003 (J)	<0.003	<0.003	
8/31/2016		0.0003 (3)	~0.003	~0.003	<0.003
		<0.002	<0.003	<0.002	N.003
9/14/2016 11/2/2016		<0.003 <0.003	<0.003 <0.003	<0.003	
		<0.003	<0.003	<0.003	
11/4/2016				<0.003	0.004471)
11/28/2016			<0.002	<0.002	0.0014 (J)
1/12/2017		10.000	<0.003	<0.003	
1/13/2017		<0.003			0.000
2/22/2017					<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					<0.003
6/27/2017			<0.003	<0.003	
6/29/2017		<0.003			
7/17/2017					<0.003
10/12/2017	<0.003				
10/16/2017					<0.003
11/20/2017	<0.003				
1/10/2018	<0.003				
2/19/2018	<0.003				<0.003
3/29/2018		<0.003	<0.003	<0.003	
4/3/2018	<0.003				
6/28/2018	<0.003				
8/6/2018					<0.003
8/7/2018	<0.003				
9/24/2018	<0.003				
2/25/2019					<0.003
3/4/2019		<0.003	<0.003	<0.003	
4/3/2019		<0.003	<0.003	<0.003	
6/12/2019					<0.003

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/19/2019					<0.003
8/21/2019	<0.003				
9/24/2019			<0.003	<0.003	
9/25/2019		<0.003			
10/8/2019					<0.003
2/12/2020	<0.003	<0.003	<0.003	<0.003	
3/17/2020					<0.003
3/24/2020	<0.003		<0.003	<0.003	
3/25/2020		<0.003			
8/26/2020					0.00042 (J)
9/22/2020		<0.003	<0.003	<0.003	0.00044 (J)
9/24/2020	<0.003				
2/8/2021			<0.003	<0.003	
2/9/2021		<0.003			
2/10/2021	<0.003				
3/2/2021			<0.003	<0.003	<0.003
3/3/2021		<0.003			
3/4/2021	<0.003				
8/20/2021					<0.003
8/26/2021		<0.003	<0.003	<0.003	
9/3/2021	<0.003				
2/8/2022	<0.003				<0.003
2/10/2022			<0.003	<0.003	
2/11/2022		<0.003			
8/30/2022			<0.003	<0.003	<0.003
8/31/2022	<0.003	<0.003			

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.0021	<0.005				<0.005
6/2/2016	<0.005				<0.005	<0.005	
7/25/2016			<0.005		<0.005		<0.005
7/26/2016	<0.005	0.0016 (J)				<0.005	
9/13/2016		<0.005	<0.005				
9/14/2016				<0.005			<0.005
9/15/2016	<0.005					<0.005	
9/19/2016					<0.005		
11/1/2016		<0.005			<0.005	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			<0.005	0.0017 (J)			
12/15/2016				0.0023 (J)			
1/10/2017	<0.005						
1/11/2017		0.0017 (J)				<0.005	<0.005
1/16/2017			<0.005	0.0018 (J)	<0.005		
2/21/2017					<0.005		
3/1/2017							0.0004 (J)
3/2/2017		0.0014 (J)	<0.005			<0.005	
3/3/2017				0.0016 (J)			
3/8/2017	<0.005						
4/26/2017	<0.005				<0.005	<0.005	<0.005
4/27/2017		0.0018 (J)	<0.005				
4/28/2017				0.002 (J)			
5/26/2017				0.0005 (J)			
6/27/2017		0.0018 (J)	<0.005				
6/28/2017				0.0016 (J)		0.0007 (J)	0.0011 (J)
6/30/2017	<0.005				<0.005		
3/27/2018	<0.005		<0.005		<0.005		
3/28/2018				0.0013 (J)		<0.005	<0.005
3/29/2018		0.0017 (J)					
6/5/2018		0.0013 (J)					
6/6/2018			<0.005				
6/7/2018				0.00082 (J)		<0.005	
6/8/2018	<0.005						<0.005
6/11/2018					<0.005		
10/1/2018	<0.005	0.0016 (J)	<0.005	0.0011 (J)		<0.005	<0.005
10/2/2018					<0.005		
2/26/2019	<0.005				<0.005		
2/27/2019		0.0015 (J)	<0.005	0.001 (J)		<0.005	<0.005
3/28/2019		0.00072 (J)	<0.005				
3/29/2019	<0.005			0.00063 (J)			
4/1/2019					<0.005	<0.005	<0.005
9/24/2019		0.0014 (J)	<0.005	<0.005			
9/25/2019	<0.005				<0.005	<0.005	<0.005
2/10/2020		0.0026 (J)	0.0005 (J)				
2/11/2020				0.0044 (J)			0.0041 (J)
2/12/2020	<0.005				0.0032 (J)	0.0038 (J)	
3/18/2020	<0.005		<0.005				
3/19/2020		0.00095 (J)		0.00066 (J)	<0.005	<0.005	<0.005
9/23/2020		0.0011 (J)	<0.005	0.001 (J)		<0.005	<0.005
9/24/2020					<0.005		
9/25/2020	<0.005						

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.005			<0.005		0.00094 (J)	0.00078 (J)
2/11/2021					<0.005		
2/12/2021		<0.005	<0.005				
3/1/2021					<0.005		
3/2/2021	<0.005						
3/3/2021		<0.005	<0.005	0.00098 (J)		<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005		<0.005	<0.005	
8/27/2021				<0.005			<0.005
2/9/2022		0.0031 (J)	0.0033 (J)	0.0037 (J)		0.002 (J)	0.0018 (J)
2/10/2022	0.0016 (J)						
2/11/2022					0.0014 (J)		
8/30/2022		<0.005		0.0027 (J)			
8/31/2022	<0.005		<0.005		<0.005	0.0028 (J)	<0.005

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	<0.005	0.0011 (J)	<0.005			
6/9/2016					<0.005	0.00094 (J)	<0.005
8/1/2016	<0.005	<0.005	0.0009 (J)	<0.005			
8/2/2016					<0.005	<0.005	<0.005
9/20/2016	<0.005	<0.005	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	<0.005	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	<0.005				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		<0.005					
5/5/2017					<0.005	<0.005	
5/8/2017	<0.005		0.0006 (J)	<0.005			<0.005
6/30/2017			<0.005 (*)	<0.005 (*)			
7/5/2017					<0.005		<0.005
7/7/2017						0.0007 (J)	
7/10/2017	<0.005	<0.005					
3/29/2018			0.0006 (J)	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	0.00069 (J)	
6/11/2018							<0.005
6/12/2018				<0.005	<0.005	0.00075 (J)	
6/13/2018	<0.005	<0.005	<0.005				
10/2/2018	<0.005	<0.005	<0.005	<0.005			<0.005
10/3/2018					<0.005	0.0007 (J)	
2/27/2019	<0.005	<0.005	0.00069 (J)	<0.005	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	<0.005				<0.005	
9/25/2019	<0.005	<0.005					<0.005
9/26/2019			0.00058 (J)	<0.005	<0.005	0.00057 (J)	
2/13/2020	<0.005	<0.005	0.00055 (J)	<0.005	<0.005	0.00065 (J)	<0.005
3/19/2020		<0.005			<0.005	0.00051 (J)	
3/20/2020	<0.005		0.00042 (J)	<0.005			<0.005
9/24/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2021	<0.005	<0.005	<0.005	<0.005			
2/11/2021					<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
8/19/2021		<0.005					
8/20/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2022				0.0019 (J)	0.0021 (J)	0.0042 (J)	0.0033 (J)
2/10/2022	0.0028 (J)	0.0032 (J)	0.004 (J)				
8/31/2022	<0.005	<0.005					
9/1/2022			<0.005	<0.005	<0.005	<0.005	<0.005

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.005	<0.005			
6/7/2016		<0.005			<0.005	<0.005	
7/27/2016		<0.005	<0.005	<0.005	<0.005		
7/28/2016						<0.005	
8/30/2016	<0.005						
9/16/2016		<0.005		<0.005			
9/19/2016			<0.005		<0.005	<0.005	
11/2/2016					<0.005		
11/3/2016		<0.005	<0.005	<0.005		<0.005	
11/14/2016	<0.005						
1/11/2017		<0.005	<0.005	<0.005			
1/13/2017					<0.005	<0.005	
2/24/2017	<0.005						
3/1/2017			<0.005	<0.005			
3/2/2017		<0.005					
3/6/2017		0.000			<0.005	0.0017 (J)	
4/26/2017			<0.005	<0.005	<0.005	<0.005	
5/2/2017		<0.005	10.000	10.003	10.000	10.000	
5/8/2017	<0.005	~ 0.003					
	<0.005		<0.005	<0.005			
6/28/2017		<0.00E	<0.005	<0.005	<0.00E	<0.00E	
6/29/2017	-0.005	<0.005			<0.005	<0.005	
7/11/2017	<0.005						
10/10/2017	0.0007 (J)						
10/11/2017							0.0009 (J)
11/20/2017							<0.005
1/11/2018							<0.005
2/20/2018							<0.005
3/28/2018		<0.005	<0.005	0.00061 (J)			
3/29/2018					<0.005	0.0015 (J)	
4/2/2018	<0.005						
4/3/2018							<0.005
6/5/2018						0.0013 (J)	
6/6/2018					<0.005		
6/7/2018			0.00066 (J)				
6/11/2018		<0.005		<0.005			
6/28/2018							<0.005
8/7/2018							<0.005
9/19/2018	0.00072 (J)						
9/24/2018							<0.005
9/25/2018		<0.005	<0.005	<0.005	<0.005	0.0022 (J)	
3/5/2019		<0.005		<0.005	<0.005	0.0013 (J)	
3/6/2019			<0.005				
4/2/2019		<0.005				0.00096 (J)	
4/3/2019			<0.005	<0.005	<0.005		
8/20/2019	<0.005						
8/21/2019							0.00058 (J)
9/24/2019						0.0026 (J)	
9/25/2019		<0.005			<0.005		
9/26/2019			<0.005	<0.005			
10/8/2019	<0.005						
10/9/2019							0.00063 (J)
2/11/2020		0.0022 (J)	0.0014 (J)	0.0026 (J)			• •
		• •	• •	. ,			

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					<0.005	0.0025 (J)	0.00058 (J)
3/17/2020	<0.005						
3/24/2020		<0.005	<0.005	<0.005	<0.005	0.0013 (J)	
3/25/2020							0.0012 (J)
8/27/2020	<0.005						
9/22/2020	<0.005						
9/23/2020		<0.005	<0.005	<0.005			
9/24/2020					<0.005	0.0014 (J)	<0.005
2/9/2021			<0.005	<0.005	<0.005	0.001 (J)	
2/10/2021							<0.005
3/1/2021	<0.005						
3/3/2021		<0.005	<0.005	<0.005	<0.005		
3/4/2021						0.00078 (J)	<0.005
8/19/2021	<0.005						
8/26/2021				<0.005			<0.005
8/27/2021		<0.005	<0.005		<0.005		
9/1/2021						<0.005	
2/8/2022	0.0027 (J)						0.0034 (J)
2/9/2022		0.0024 (J)	0.0022 (J)	0.0024 (J)	0.0021 (J)	0.0036 (J)	
8/30/2022		<0.005	<0.005	<0.005		0.0022 (J)	
8/31/2022	<0.005				<0.005		0.0029 (J)

Constituent: Arsenic (mg/L) Analysis Run 10/13/2022 3:43 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
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
6/2/2016		<0.005	0.00071 (J)	<0.005	
7/26/2016		<0.005	0.001 (J)	<0.005	
8/31/2016					<0.005
9/14/2016		<0.005	<0.005	<0.005	
11/2/2016		<0.005	<0.005		
11/4/2016				<0.005	
11/28/2016					<0.005
1/12/2017			<0.005	<0.005	
1/13/2017		<0.005			
2/22/2017					<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			
7/17/2017					<0.005
10/12/2017	<0.005				
10/16/2017					<0.005
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				<0.005
3/29/2018		<0.005	0.0006 (J)	<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				
8/6/2018					<0.005
8/7/2018	<0.005				
9/24/2018	<0.005				
9/26/2018		<0.005	0.0014 (J)	<0.005	
2/25/2019					<0.005

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.005	<0.005	<0.005	
4/3/2019		<0.005	<0.005	<0.005	
6/12/2019					0.00038 (J)
8/19/2019					0.00095 (J)
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			
8/26/2020					<0.005
9/22/2020		<0.005	0.001 (J)	<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				
3/2/2021			<0.005	<0.005	<0.005
3/3/2021		<0.005			
3/4/2021	<0.005				
8/20/2021					<0.005
8/26/2021		<0.005	0.0016 (J)	<0.005	
9/3/2021	<0.005				
2/8/2022	0.003 (J)				0.0033 (J)
2/10/2022			0.004 (J)	0.0016 (J)	
2/11/2022		0.0014 (J)			
8/30/2022			0.0031 (J)	<0.005	0.0024 (J)
8/31/2022	<0.005	<0.005			

6/1/0	116	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/20		0.0081	800.0	0.012		0.0064	0.01	0.0038
6/2/20		0.0081		0.0001 (1)		0.0064	0.01	0.0004 (1)
7/25/2		0.0000 (1)	0.000 (1)	0.0091 (J)		0.0071 (J)	0.0000 (1)	0.0031 (J)
7/26/2		0.0082 (J)	0.006 (J)	0.000 (1)			0.0088 (J)	
9/13/2			0.0084 (J)	0.008 (J)	0.0007 (1)			0.0007 (1)
9/14/2					0.0037 (J)			0.0027 (J)
9/15/2		0.0087 (J)					0.009 (J)	
9/19/2						0.0069 (J)		
11/1/2			0.0062 (J)			0.007 (J)	0.0079 (J)	0.0027 (J)
11/2/2		0.0082 (J)						
11/4/2				0.0067 (J)	0.0059 (J)			
12/15					0.0056 (J)			
1/10/2		0.0086 (J)						
1/11/2			0.0069 (J)				0.0075 (J)	0.0036 (J)
1/16/2				0.0096 (J)	0.0049 (J)	0.0071 (J)		
2/21/2						0.0077 (J)		
3/1/20								0.0036 (J)
3/2/20			0.0071 (J)	0.0112			0.009 (J)	
3/3/20					0.0046 (J)			
3/8/20	017	0.0088 (J)						
4/26/2	2017	0.0085 (J)				0.0074 (J)	0.0078 (J)	0.0038 (J)
4/27/2	2017		0.0064 (J)	0.0106				
4/28/2	2017				0.0039 (J)			
5/26/2	2017				0.0034 (J)			
6/27/2	2017		0.0054 (J)	0.0092 (J)				
6/28/2	2017				0.003 (J)		0.0071 (J)	0.004 (J)
6/30/2	2017	0.0081 (J)				0.0076 (J)		
3/27/2	2018	<0.01		<0.01		<0.01		
3/28/2	2018				<0.01		<0.01	<0.01
3/29/2	2018		<0.01					
6/5/20)18		0.0069 (J)					
6/6/20)18			0.0082 (J)				
6/7/20)18				0.0037 (J)		0.0068 (J)	
6/8/20)18	0.007 (J)						0.0034 (J)
6/11/2	2018					0.007 (J)		
10/1/2	2018	0.007 (J)	0.0062 (J)	0.0084 (J)	0.0038 (J)		0.0065 (J)	0.0034 (J)
10/2/2	2018					0.0069 (J)		
2/26/2	2019	0.0067 (J)				0.007 (J)		
2/27/2	2019		0.0074 (J)	0.008 (J)	0.0035 (J)		0.0059 (J)	0.0034 (J)
3/28/2	2019		0.0082 (J)	0.0082 (J)				
3/29/2	2019	0.0066 (J)			0.0039 (J)			
4/1/20)19					0.0072 (J)	0.0064 (J)	0.003 (J)
9/24/2	2019		0.0072 (J)	0.0086 (J)	0.0038 (J)			
9/25/2	2019	0.0071 (J)				0.0066 (J)	0.0059 (J)	0.005 (J)
2/10/2	2020		0.0066 (J)	0.0091 (J)				
2/11/2	2020				0.0036 (J)			0.0031 (J)
2/12/2	2020	0.007 (J)				0.0073 (J)	0.0062 (J)	
3/18/2	2020	0.0076 (J)		0.0084 (J)				
3/19/2	2020		0.0076 (J)		0.0036 (J)	0.0074 (J)	0.0072 (J)	0.0029 (J)
9/23/2	2020		0.0068 (J)	0.0079 (J)	0.0039 (J)		0.0051 (J)	0.0039 (J)
9/24/2	2020					0.0062 (J)		
9/25/2	2020	0.0073 (J)						

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	0.0078 (J)			0.0032 (J)		0.0059 (J)	0.0029 (J)
2/11/2021					0.0077 (J)		
2/12/2021		0.0057 (J)	0.009 (J)				
3/1/2021					0.007		
3/2/2021	0.0076						
3/3/2021		0.0068	0.0094	0.0041 (J)		0.0064	0.0031 (J)
8/19/2021	0.0077	0.0065	0.0079		0.0071	0.0052	
8/27/2021				0.003 (J)			0.0039 (J)
2/9/2022		0.0067	0.0088	0.0029 (J)		0.0051	0.0031 (J)
2/10/2022	0.0088						
2/11/2022					0.0077		
8/30/2022		0.0066		0.003 (J)			
8/31/2022	0.0075		0.0074		0.0068	0.0048 (J)	0.003 (J)

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.068	0.029	0.081	0.12			
6/9/2016					0.1	0.22	0.082
8/1/2016	0.0688	0.0316	0.0838	0.115			
8/2/2016					0.0836	0.212	0.0781
9/20/2016	0.0663	0.0298	0.0687	0.108			
9/21/2016					0.0889	0.228	0.0782
11/7/2016	0.065	0.0289	0.0639	0.102		0.214	0.0712
11/8/2016					0.0886		
1/18/2017	0.0625	0.0278	0.0645		0.0862	0.213	
1/19/2017				0.102			0.0689
2/21/2017	0.0655	0.0282				0.222	
2/22/2017				0.106	0.0915		0.0741
2/23/2017			0.0728				
5/3/2017		0.0282					
5/5/2017					0.0891	0.219	
5/8/2017	0.0699		0.0721	0.102			0.0725
6/30/2017			0.0666	0.0963			
7/5/2017					0.0862		0.0677
7/7/2017						0.205	
7/10/2017	0.0691	0.0274					
3/29/2018			0.062	0.097			0.055
3/30/2018	0.063	0.026			0.087	0.2	
6/11/2018							0.068
6/12/2018				0.095	0.088	0.21	
6/13/2018	0.064	0.026	0.063				
10/2/2018	0.066	0.026	0.062	0.1			0.067
10/3/2018					0.092	0.22	
2/27/2019	0.065	0.027	0.066	0.096	0.086	0.21	0.067
4/1/2019			0.066	0.099	0.088		0.063
4/2/2019	0.065	0.027				0.2	
9/25/2019	0.063	0.026					0.061
9/26/2019			0.065	0.099	0.087	0.18	
2/13/2020	0.06	0.025	0.063	0.097	0.089	0.21	0.053
3/19/2020		0.027			0.089	0.2	
3/20/2020	0.063		0.062	0.095			0.057
9/24/2020	0.058	0.025	0.069	0.087	0.079	0.18	0.056
2/10/2021	0.06	0.031	80.0	0.088			
2/11/2021					0.078		
2/12/2021						0.057	0.21
3/2/2021		0.031					
3/3/2021	0.064		80.0	0.075	0.077	0.25	0.059
8/19/2021	0.000	0.023	0.000	0.000	0.070	0.04	0.057
8/20/2021	0.063		0.083	0.082	0.079	0.24	0.057
2/8/2022	0.063	0.027	0.070	0.068	0.083	0.2	0.057
2/10/2022	0.063	0.027	0.079				
8/31/2022	0.057	0.024	0.076	0.049	0.068	0.2	0.057
9/1/2022			0.076	0.049	0.068	0.2	0.057

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			0.028	0.019			
6/7/2016		0.012			0.014	0.0058	
7/27/2016		0.0126	0.0294	0.0167	0.0141		
7/28/2016						0.0068 (J)	
8/30/2016	0.0413						
9/16/2016		0.0127		0.0168			
9/19/2016			0.0247		0.0155	0.0071 (J)	
11/2/2016					0.0157		
11/3/2016		0.0128	0.0248	0.0159		0.0092 (J)	
11/14/2016	0.0383						
1/11/2017		0.0142	0.0266	0.0162			
1/13/2017					0.0158	0.0105	
2/24/2017	0.0351						
3/1/2017			0.0275	0.0195			
3/2/2017		0.0155					
3/6/2017					0.0163	0.0105	
4/26/2017			0.024	0.0182	0.0177	0.011	
5/2/2017		0.0138					
5/8/2017	0.0251						
6/28/2017			0.0237	0.018			
6/29/2017		0.0128			0.017	0.0109	
7/11/2017	0.0233						
10/10/2017	0.0207						
10/11/2017							0.0092 (J)
11/20/2017							0.0081 (J)
1/11/2018							0.0077 (J)
2/20/2018							<0.01
3/28/2018		0.014	0.024	0.021			
3/29/2018					0.014	<0.01	
4/2/2018	0.022						
4/3/2018							<0.01
6/5/2018						0.011	
6/6/2018					0.015		
6/7/2018			0.023				
6/11/2018		0.013		0.019			
6/28/2018							0.0078 (J)
8/7/2018							0.0078 (J)
9/19/2018	0.023						
9/24/2018							0.0071 (J)
9/25/2018		0.014	0.023	0.019	0.015	0.011	
3/5/2019		0.015		0.02	0.016	0.011	
3/6/2019			0.024				
4/2/2019		0.016				0.011	
4/3/2019			0.025	0.017	0.018		
8/20/2019	0.024						
8/21/2019							0.015
9/24/2019						0.011	
9/25/2019		0.015			0.014		
9/26/2019			0.021	0.017			
10/8/2019	0.025						
10/9/2019							0.013
2/11/2020		0.015	0.022	0.019			

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					0.014	0.011	0.011
3/17/2020	0.035						
3/24/2020		0.015	0.021	0.017	0.015	0.011	
3/25/2020							0.014
8/27/2020	0.027						
9/22/2020	0.026						
9/23/2020		0.015	0.021	0.016			
9/24/2020					0.015	0.01	0.016
2/9/2021			0.023	0.017	0.015	0.011	
2/10/2021							0.027
3/1/2021	0.029						
3/3/2021		0.017	0.023	0.017	0.015		
3/4/2021						0.011	0.028
8/19/2021	0.029						
8/26/2021				0.015			0.038
8/27/2021		0.016	0.02		0.013		
9/1/2021						0.0099	
2/8/2022	0.03						0.041
2/9/2022		0.017	0.021	0.014	0.014	0.011	
8/30/2022		0.017	0.017	0.012		0.0085	
8/31/2022	0.029				0.011		0.035
	3/17/2020 3/24/2020 3/25/2020 8/27/2020 9/22/2020 9/23/2020 9/24/2020 2/9/2021 2/10/2021 3/1/2021 3/4/2021 8/19/2021 8/26/2021 8/27/2021 9/1/2021 2/8/2022 8/30/2022	2/12/2020 3/17/2020 3/17/2020 3/24/2020 3/25/2020 8/27/2020 0.026 9/23/2020 9/24/2020 2/9/2021 2/10/2021 3/1/2021 3/4/2021 8/19/2021 8/27/2021 9/1/2021 8/27/2021 9/1/2021 9/1/2021 8/27/2021 9/1/2021 8/27/2021 9/1/2021 8/27/2021 9/1/2021 8/3/2022 8/30/2022 8/30/2022	2/12/2020 3/17/2020 0.035 3/24/2020 0.015 3/25/2020 8/27/2020 0.027 9/22/2020 0.026 9/23/2020 2/9/2021 2/10/2021 3/1/2021 0.029 3/3/2021 8/27/2021 0.029 8/27/2021 8/27/2021 0.029 8/26/2021 8/27/2021 0.03 2/9/2022 0.03 2/9/2022 0.017 8/30/2022 0.017	2/12/2020 0.035 3/24/2020 0.015 0.021 3/25/2020 0.027 0.015 0.021 8/27/2020 0.026 0.015 0.021 9/23/2020 0.026 0.015 0.021 9/24/2020 0.023 0.023 0.023 2/9/2021 0.029 0.017 0.023 3/1/2021 0.029 0.017 0.023 3/4/2021 0.029 0.016 0.02 8/27/2021 0.016 0.02 9/1/2021 0.03 0.017 0.021 8/30/2022 0.017 0.017 0.017	2/12/2020 0.035 3/24/2020 0.015 0.021 0.017 3/25/2020 8/27/2020 0.027 0.021 0.017 9/22/2020 0.026 0.021 0.016 9/24/2020 0.015 0.021 0.016 9/24/2020 0.029 0.023 0.017 2/9/2021 0.029 0.023 0.017 3/4/2021 0.029 0.023 0.017 8/26/2021 0.029 0.017 0.023 0.015 8/27/2021 0.029 0.015 0.02 9/1/2021 0.002 0.016 0.02 9/1/2021 0.03 0.016 0.02 9/1/2021 0.03 0.017 0.021 0.014 8/30/2022 0.017 0.017 0.017 0.012	2/12/2020 0.035 3/24/2020 0.015 0.021 0.017 0.015 3/25/2020 0.027 0.021 0.016 0.017 0.015 9/23/2020 0.026 0.021 0.016 0.015 0.021 0.016 0.015 2/9/2021 0.023 0.017 0.015 0.015 0.023 0.017 0.015 3/1/2021 0.029 0.017 0.023 0.017 0.015 0.015 3/4/2021 0.029 0.017 0.015 0.013 0.015 0.013 0.013 0.013 0.013 0.014 </td <td>2/12/2020 0.035 0.014 0.011 3/24/2020 0.035 0.021 0.017 0.015 0.011 3/25/2020 0.027 0.022 0.026 0.021 0.016 0.015 0.01 9/23/2020 0.026 0.021 0.016 0.015 0.01 9/24/2020 0.026 0.021 0.016 0.015 0.01 2/9/2021 0.023 0.017 0.015 0.011 2/10/2021 0.029 0.023 0.017 0.015 0.011 3/4/2021 0.029 0.023 0.017 0.015 0.011 8/26/2021 0.029 0.015 0.015 0.011 8/27/2021 0.029 0.015 0.013 0.013 8/27/2021 0.03 0.016 0.021 0.015 0.013 8/27/2021 0.03 0.017 0.014 0.014 0.011 8/2/2022 0.03 0.017 0.021 0.014 0.014 0.011 8/30/2022 0.03 0.017 0.014 0.014 0.011</td>	2/12/2020 0.035 0.014 0.011 3/24/2020 0.035 0.021 0.017 0.015 0.011 3/25/2020 0.027 0.022 0.026 0.021 0.016 0.015 0.01 9/23/2020 0.026 0.021 0.016 0.015 0.01 9/24/2020 0.026 0.021 0.016 0.015 0.01 2/9/2021 0.023 0.017 0.015 0.011 2/10/2021 0.029 0.023 0.017 0.015 0.011 3/4/2021 0.029 0.023 0.017 0.015 0.011 8/26/2021 0.029 0.015 0.015 0.011 8/27/2021 0.029 0.015 0.013 0.013 8/27/2021 0.03 0.016 0.021 0.015 0.013 8/27/2021 0.03 0.017 0.014 0.014 0.011 8/2/2022 0.03 0.017 0.021 0.014 0.014 0.011 8/30/2022 0.03 0.017 0.014 0.014 0.011

Constituent: Barium (mg/L) Analysis Run 10/13/2022 3:43 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
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
6/2/2016		0.013	0.0084	0.019	
7/26/2016		0.0158	0.01	0.0179	
8/31/2016					0.0542
9/14/2016		0.0143	0.0085 (J)	0.0181	
11/2/2016		0.0148	0.0091 (J)		
11/4/2016				0.0165	
11/28/2016					0.0529
1/12/2017			0.0089 (J)	0.0199	
1/13/2017		0.0146			
2/22/2017					0.0607
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					0.065
6/27/2017			0.0074 (J)	0.0184	
6/29/2017		0.0154			
7/17/2017					0.06
10/12/2017	0.0328				
10/16/2017					0.0542
11/20/2017	0.0671				
1/10/2018	0.0656				
2/19/2018	0.0598				0.0533
3/29/2018		0.014	<0.01	0.021	
4/3/2018	0.045				
6/6/2018			0.008 (J)		
6/7/2018		0.014		0.019	
6/28/2018	0.047				
8/6/2018					0.044
8/7/2018	0.048				
9/24/2018	0.042				
9/26/2018		0.02	0.0075 (J)	0.019	
2/25/2019					0.045

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		0.016	0.0077 (J)	0.019	
4/3/2019		0.017	0.0087 (J)	0.023	
6/12/2019					0.063
8/19/2019					0.065
8/21/2019	0.035				
9/24/2019			0.0075 (J)	0.019	
9/25/2019		0.015			
10/8/2019					0.058
10/9/2019	0.036				
2/12/2020	0.035	0.012	0.0079 (J)	0.021	
3/17/2020					0.047
3/24/2020	0.033		0.0076 (J)	0.021	
3/25/2020		0.016			
8/26/2020					0.044
9/22/2020		0.013	0.0076 (J)	0.019	0.045
9/24/2020	0.028				
2/8/2021			0.0079 (J)	0.02	
2/9/2021		0.013			
2/10/2021	0.032				
3/2/2021			0.014	0.019	0.039
3/3/2021		0.014			
3/4/2021	0.032				
8/20/2021					0.036
8/26/2021		0.012	0.0092	0.019	
9/3/2021	0.035				
2/8/2022	0.039				0.037
2/10/2022			0.0084	0.02	
2/11/2022		0.013			
8/30/2022			0.0079	0.017	0.031
8/31/2022	0.035	0.013			

6/1/20	016	YGWA-14S (bg)	YGWA-1D (bg) <0.0005	YGWA-1I (bg) <0.0005	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg) <0.0005
6/2/20		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005
7/25/2		10.0003		<0.0005		<0.0005	10.0000	<0.0005
7/26/2		0.0002 (J)	<0.0005	10.0003		10.0000	<0.0005	-0.0003
9/13/2		0.0002 (3)	<0.0005	<0.0005			~0.0003	
9/14/2			10.0000	10.0000	<0.0005			<0.0005
9/15/2		0.0002 (J)			~0.0003		<0.0005	~0.0003
9/19/2		0.0002 (3)				<0.0005	<0.0005	
			<0.0005			<0.0005	<0.0005	<0.0005
11/1/2 11/2/2		0.000271	<0.0005			<0.0005	<0.0005	<0.0005
11/4/2		0.0002 (J)		<0.0005	<0.0005			
	5/2016			<0.0005	<0.0005			
1/10/2		0.0002 (J)			<0.0005			
1/11/2		0.0002 (3)	<0.0005				<0.0005	<0.0005
			<0.0005	<0.000E	<0.000E	<0.000E	<0.0003	<0.0005
1/16/2				<0.0005	<0.0005	<0.0005 <0.0005		
2/21/2						<0.0005		<0.000E
3/1/20			-0.0005	-0.0005			-0.0005	<0.0005
3/2/20			<0.0005	<0.0005	.0.005		<0.0005	
3/3/20		0.0000 (1)			<0.0005			
3/8/20		0.0002 (J)				-0.0005	-0.0005	-0.0005
4/26/2		0.0002 (J)	-0.0005	-0.0005		<0.0005	<0.0005	<0.0005
4/27/2			<0.0005	<0.0005	0.0005			
4/28/2					<0.0005			
5/26/2			0.0005	0.0005	<0.0005			
6/27/2			<0.0005	<0.0005				
6/28/2		0.0000 (1)			<0.0005	.0.005	<0.0005	<0.0005
6/30/2		0.0002 (J)				<0.0005		
3/27/2		<0.0005		<0.0005		<0.0005		
3/28/2					<0.0005		<0.0005	<0.0005
3/29/2		0.00040 (1)	<0.0005			7.05.05.41)		
2/26/2		0.00016 (J)				7.2E-05 (J)		
2/27/2			<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
3/28/2			<0.0005	<0.0005				
3/29/2		0.00017 (J)			<0.0005	.0.005	0.0005	.0.0005
4/1/20						<0.0005	<0.0005	<0.0005
9/24/2			<0.0005	<0.0005	<0.0005			
9/25/2		0.00018 (J)				<0.0005	<0.0005	<0.0005
2/10/2			<0.0005	<0.0005				
2/11/2					<0.0005			<0.0005
2/12/2		0.00019 (J)				<0.0005	<0.0005	
3/18/2		0.00021 (J)		<0.0005				
3/19/2			<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
9/23/2			<0.0005	<0.0005	<0.0005		<0.0005	5.9E-05 (J)
9/24/2						<0.0005		
9/25/2		0.00018 (J)						
2/10/2		0.00019 (J)			<0.0005		<0.0005	<0.0005
2/11/2						4.7E-05 (J)		
2/12/2			<0.0005	<0.0005				
3/1/20						<0.0005		
3/2/20		0.00018 (J)						
3/3/20			<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
8/19/2	2021	0.00022 (J)	<0.0005	<0.0005		<0.0005	<0.0005	

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.0005			<0.0005
2/9/2022		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
2/10/2022	0.00025 (J)						
2/11/2022					<0.0005		
8/30/2022		<0.0005		<0.0005			
8/31/2022	0.0002 (J)		<0.0005		<0.0005	<0.0005	<0.0005

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.0005	<0.0005	<0.0005	<0.0005			
6/9/2016					<0.0005	<0.0005	<0.0005
8/1/2016	<0.0005	0.0002 (J)	<0.0005	<0.0005			
8/2/2016					<0.0005	<0.0005	<0.0005
9/20/2016	<0.0005	0.0001 (J)	9E-05 (J)	<0.0005			
9/21/2016					<0.0005	<0.0005	<0.0005
11/7/2016	<0.0005	0.0001 (J)	0.0001 (J)	<0.0005		<0.0005	<0.0005
11/8/2016					<0.0005		
1/18/2017	<0.0005	0.0002 (J)	0.0002 (J)		<0.0005	<0.0005	
1/19/2017				<0.0005			<0.0005
2/21/2017	<0.0005	0.0002 (J)				<0.0005	
2/22/2017				<0.0005	<0.0005		<0.0005
2/23/2017			0.0002 (J)				
5/3/2017		0.0002 (J)					
5/5/2017					<0.0005	<0.0005	
5/8/2017	<0.0005		0.0002 (J)	<0.0005			<0.0005
6/30/2017			0.0002 (J)	<0.0005			
7/5/2017					<0.0005		<0.0005
7/7/2017						<0.0005	
7/10/2017	<0.0005	0.0002 (J)					
3/29/2018			<0.0005	<0.0005			<0.0005
3/30/2018	<0.0005	<0.0005			<0.0005	<0.0005	
2/27/2019	<0.0005	0.00018 (J)	0.00022 (J)	<0.0005	<0.0005	<0.0005	<0.0005
4/1/2019			0.00022 (J)	<0.0005	<0.0005		<0.0005
4/2/2019	<0.0005	0.00015 (J)				<0.0005	
9/25/2019	<0.0005	0.00011 (J)					<0.0005
9/26/2019			0.0002 (J)	<0.0005	<0.0005	<0.0005	
2/13/2020	<0.0005	0.00015 (J)	0.00021 (J)	<0.0005	<0.0005	<0.0005	<0.0005
3/19/2020		0.00012 (J)			<0.0005	<0.0005	
3/20/2020	<0.0005		0.00023 (J)	<0.0005			<0.0005
9/24/2020	<0.0005	8.5E-05 (J)	0.00019 (J)	<0.0005	<0.0005	<0.0005	<0.0005
2/10/2021	<0.0005	0.00013 (J)	0.00014 (J)	6.6E-05 (J)			
2/11/2021					<0.0005		
2/12/2021						<0.0005	<0.0005
3/2/2021		0.00016 (J)					
3/3/2021	<0.0005		0.00013 (J)	<0.0005	<0.0005	<0.0005	<0.0005
8/19/2021		8.2E-05 (J)					
8/20/2021	<0.0005		8.6E-05 (J)	0.00011 (J)	<0.0005	<0.0005	<0.0005
2/8/2022				<0.0005	<0.0005	<0.0005	<0.0005
2/10/2022	<0.0005	9.3E-05 (J)	0.00013 (J)				
8/31/2022	<0.0005	7.4E-05 (J)					
9/1/2022			0.00012 (J)	<0.0005	<0.0005	<0.0005	<0.0005

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.0005	<0.0005			
6/7/2016		<0.0005			<0.0005	<0.0005	
7/27/2016		<0.0005	<0.0005	<0.0005	<0.0005		
7/28/2016						<0.0005	
8/30/2016	<0.0005						
9/16/2016		<0.0005		<0.0005			
9/19/2016			<0.0005		<0.0005	<0.0005	
11/2/2016					<0.0005		
11/3/2016		<0.0005	<0.0005	<0.0005		<0.0005	
11/14/2016	<0.0005						
1/11/2017		<0.0005	<0.0005	<0.0005			
1/13/2017					<0.0005	<0.0005	
2/24/2017	<0.0005						
3/1/2017			<0.0005	<0.0005			
3/2/2017		8E-05 (J)					
3/6/2017					<0.0005	<0.0005	
4/26/2017			<0.0005	<0.0005	<0.0005	<0.0005	
5/2/2017		<0.0005					
5/8/2017	7E-05 (J)						
6/28/2017	(-)		<0.0005	<0.0005			
6/29/2017		<0.0005			<0.0005	<0.0005	
7/11/2017	<0.0005						
10/10/2017	<0.0005						
10/11/2017	10.0003						<0.0005
11/20/2017							<0.0005
1/11/2018							<0.0005
2/20/2018							<0.0005
		<0.0005	<0.0005	<0.0005			0.0003
3/28/2018		<0.0005	<0.0005	<0.0005	<0.000E	<0.000E	
3/29/2018	<0.000E				<0.0005	<0.0005	
4/2/2018	<0.0005						40,0005
4/3/2018						-0.0005	<0.0005
6/5/2018					05.05.41)	<0.0005	
6/6/2018			.0.005		8E-05 (J)		
6/7/2018		05.05.41)	<0.0005	5.75.05.40			
6/11/2018		9E-05 (J)		5.7E-05 (J)			
6/28/2018							<0.0005
8/7/2018							<0.0005
9/19/2018	5.7E-05 (J)						
9/24/2018							<0.0005
9/25/2018		8.9E-05 (J)	<0.0005	8.2E-05 (J)	6.1E-05 (J)	<0.0005	
3/5/2019		9.1E-05 (J)		7.9E-05 (J)	0.00011 (J)	<0.0005	
3/6/2019			<0.0005				
4/2/2019		9E-05 (J)				<0.0005	
4/3/2019			<0.0005	7.5E-05 (J)	6.4E-05 (J)		
8/20/2019	<0.0005						
8/21/2019							<0.0005
9/24/2019						<0.0005	
9/25/2019		8.1E-05 (J)			<0.0005		
9/26/2019			<0.0005	8.4E-05 (J)			
10/9/2019							<0.0005
2/11/2020		7.8E-05 (J)	<0.0005	7.6E-05 (J)			
2/12/2020					7.8E-05 (J)	<0.0005	<0.0005

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/24/2020		8E-05 (J)	<0.0005	8.9E-05 (J)	7.6E-05 (J)	<0.0005	
3/25/2020							<0.0005
8/27/2020	4.7E-05 (J)						
9/22/2020	<0.0005						
9/23/2020		8.1E-05 (J)	<0.0005	8.8E-05 (J)			
9/24/2020					8.3E-05 (J)	<0.0005	<0.0005
2/9/2021			<0.0005	9.8E-05 (J)	6.8E-05 (J)	<0.0005	
2/10/2021							5.1E-05 (J)
3/1/2021	5.5E-05 (J)						
3/3/2021		9.9E-05 (J)	<0.0005	0.00011 (J)	6.8E-05 (J)		
3/4/2021						<0.0005	<0.0005
8/19/2021	<0.0005						
8/26/2021				9.3E-05 (J)			<0.0005
8/27/2021		0.0001 (J)	<0.0005		5.9E-05 (J)		
9/1/2021						<0.0005	
2/8/2022	5.6E-05 (J)						<0.0005
2/9/2022		0.00011 (J)	<0.0005	8.9E-05 (J)	7.7E-05 (J)	<0.0005	
8/30/2022		0.0001 (J)	<0.0005	8.2E-05 (J)		<0.0005	
8/31/2022	<0.0005				<0.0005		<0.0005

						,
		YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
5	5/1/2007					<0.0005
9	9/11/2007					<0.0005
3	3/20/2008					<0.0005
8	3/27/2008					<0.0005
3	3/3/2009					<0.0005
1	11/18/2009					<0.0005
3	3/3/2010					<0.0005
9	9/8/2010					<0.0005
3	3/10/2011					<0.0005
g	9/8/2011					<0.0005
	3/5/2012					<0.0005
	9/10/2012					<0.0005
	2/6/2013					<0.0005
	3/12/2013					<0.0005
	2/5/2014					<0.0005
	3/5/2014					<0.0005
	2/4/2015					<0.0005
	3/3/2015					<0.0005
	2/16/2016					<0.0005
	5/2/2016		<0.0005	<0.0005	<0.0005	
	7/26/2016		<0.0005	<0.0005	<0.0005	
	3/31/2016					<0.0005
	9/14/2016		<0.0005	<0.0005	<0.0005	
	11/2/2016		<0.0005	<0.0005		
	11/4/2016				<0.0005	0.0005
	11/28/2016			0.0005	0.0005	<0.0005
	1/12/2017		.0.005	<0.0005	<0.0005	
	1/13/2017		<0.0005			0.0005
	2/22/2017		.0.005			<0.0005
	3/6/2017		<0.0005	<0.000E	<0.000E	
	3/7/2017		<0.000E	<0.0005	<0.0005	
	5/1/2017		<0.0005	<0.0005	<0.000E	
	5/2/2017				<0.0005	-0.000F
	5/8/2017 5/27/2017			<0.0005	<0.0005	<0.0005
	6/29/2017		<0.0005	<0.0005	<0.0003	
	7/17/2017		<0.0003			<0.0005
	10/12/2017	0.0002 (J)				10.0003
	10/16/2017	0.0002 (0)				<0.0005
	11/20/2017	0.0003 (J)				-0.0003
	1/10/2018	0.0003 (J)				
	2/19/2018	<0.0005				<0.0005
	3/29/2018	-0.0000	<0.0005	<0.0005	<0.0005	-0.0000
	1/3/2018	<0.0005	0.0000	0.0000	0.0000	
	6/6/2018	-0.0000		<0.0005		
	6/7/2018		<0.0005		<0.0005	
	5/28/2018	0.00029 (J)				
	3/6/2018	(-)				<0.0005
	3/7/2018	0.00024 (J)				
	9/24/2018	0.00019 (J)				
	9/26/2018	(-)	<0.0005	<0.0005	<0.0005	
	2/25/2019					<0.0005

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.0005	<0.0005	<0.0005	
4/3/2019		<0.0005	<0.0005	<0.0005	
6/12/2019					<0.0005
8/19/2019					<0.0005
8/21/2019	0.0002 (J)				
9/24/2019			<0.0005	<0.0005	
9/25/2019		<0.0005			
10/8/2019					<0.0005
10/9/2019	0.0002 (J)				
2/12/2020	0.00018 (J)	<0.0005	<0.0005	<0.0005	
3/17/2020					<0.0005
3/24/2020	0.00022 (J)		<0.0005	<0.0005	
3/25/2020		<0.0005			
8/26/2020					<0.0005
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)				
3/2/2021			<0.0005	<0.0005	<0.0005
3/3/2021		<0.0005			
3/4/2021	0.00021 (J)				
8/20/2021					<0.0005
8/26/2021		<0.0005	<0.0005	<0.0005	
9/3/2021	0.00024 (J)				
2/8/2022	0.00028 (J)				<0.0005
2/10/2022			<0.0005	<0.0005	
2/11/2022		<0.0005			
8/30/2022			<0.0005	<0.0005	<0.0005
8/31/2022	0.00025 (J)	<0.0005			

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.04	<0.04				<0.04
6/2/2016	<0.04				<0.04	<0.04	
7/25/2016			<0.04		<0.04		<0.04
7/26/2016	0.0177 (J)	0.0055 (J)				0.0097 (J)	
9/13/2016	()	<0.04	<0.04			. ,	
9/14/2016				<0.04			<0.04
9/15/2016	0.0214 (J)					0.0102 (J)	
9/19/2016					<0.04	(0)	
11/1/2016		0.0086 (J)			<0.04	<0.04	<0.04
11/2/2016	<0.04	0.0000 (0)			0.0 .	0.01	
11/4/2016	0.0 .		<0.04	<0.04			
12/15/2016			10.04	0.0107 (J)			
1/10/2017	0.0198 (J)			0.0107 (3)			
1/11/2017	0.0130 (0)	0.0074 (J)				<0.04	<0.04
1/16/2017		0.0074 (3)	<0.04	<0.04	<0.04	~0.04	0.04
			\0.04	\0.04			
2/21/2017					<0.04		~ 0.04
3/1/2017		0.009 (1)	<0.04			0.009471	<0.04
3/2/2017		0.008 (J)	<0.04	-0.04		0.0084 (J)	
3/3/2017	0.0100 ())			<0.04			
3/8/2017	0.0189 (J)				-0.04	-0.04	.0.04
4/26/2017	0.0161 (J)				<0.04	<0.04	<0.04
4/27/2017		0.0066 (J)	<0.04				
4/28/2017				<0.04			
5/26/2017				<0.04			
6/27/2017		0.0087 (J)	0.006 (J)				
6/28/2017				<0.04		<0.04	<0.04
6/30/2017	0.0173 (J)				<0.04		
10/3/2017		0.0072 (J)	0.0071 (J)	<0.04			
10/4/2017					<0.04	<0.04	<0.04
10/5/2017	0.0173 (J)						
6/5/2018		0.0052 (J)					
6/6/2018			<0.04				
6/7/2018				<0.04		0.004 (J)	
6/8/2018	0.013 (J)						<0.04
6/11/2018					0.014 (J)		
10/1/2018	0.015 (J)	0.021 (J)	0.0049 (J)	<0.04		<0.04	<0.04
10/2/2018					<0.04		
3/28/2019		0.005 (J)	<0.04				
3/29/2019	0.014 (J)			0.0065 (J)			
4/1/2019					<0.04	<0.04	<0.04
9/24/2019		0.0064 (J)	0.0055 (J)	0.0076 (J)			
9/25/2019	0.018 (J)				<0.04	0.0054 (J)	<0.04
3/18/2020	0.02 (J)		0.0087 (J)				
3/19/2020		0.0085 (J)		0.0073 (J)	0.0052 (J)	0.0073 (J)	0.0053 (J)
9/23/2020		<0.04	<0.04	<0.04		0.012 (J)	0.0073 (J)
9/24/2020					0.0075 (J)		
9/25/2020	0.02 (J)						
3/1/2021					<0.04		
3/2/2021	0.017 (J)						
3/3/2021		<0.04	<0.04	<0.04		<0.04	<0.04
8/19/2021	0.018 (J)	<0.04	<0.04		<0.04	<0.04	
8/27/2021				<0.04			<0.04

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		<0.04	<0.04	<0.04		0.01 (J)	<0.04
2/10/2022	0.02 (J)						
2/11/2022					<0.04		
8/30/2022		<0.04		<0.04			
8/31/2022	0.015 (J)		<0.04		<0.04	<0.04	<0.04

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.97	0.62	2.2	1.3			
6/9/2016					2.2	2.3	0.88
8/1/2016	0.932	0.643	2	1.36			
8/2/2016					2.22	2.21	0.872
9/20/2016	1.04	0.644	2.02	1.69			
9/21/2016					2.65	2.54	0.853
11/7/2016	0.852	0.621	1.91	1.35		2.49	0.815
11/8/2016					2.44		
1/18/2017	0.972	0.607	1.69		1.88	2.04	
1/19/2017				1.15			0.803
2/21/2017	0.972	0.624				2.29	
2/22/2017				1.3	2.05		0.855
2/23/2017			1.76				
5/3/2017		0.676					
5/5/2017					3.01	3.41	
5/8/2017	1.05		2	1.51			0.884
6/30/2017			2.28	1.47			
7/5/2017					2.7		0.811
7/7/2017						3.01	
7/10/2017	0.855	0.58					
10/5/2017					2.53		0.851
10/6/2017				1.31			
10/9/2017			1.82			2.76	
10/10/2017	0.887	0.612					
6/11/2018							0.9
6/12/2018				1.6	2.8	2.9	
6/13/2018	0.86	0.67	2.2				
10/2/2018	0.93	0.62	1.9	1.4			0.81
10/3/2018					2.3	2.4	
4/1/2019			2.4	1.4	2.7		0.85
4/2/2019	0.9	0.63				2.9	
9/25/2019	0.86	0.63					0.73
9/26/2019			1.9	1.5	2.8	2.5	
3/19/2020		0.73			2.4	2.5	
3/20/2020	0.94		2.1	1.4			0.8
9/24/2020	0.76	0.74	2.3	1.3	2.1	2.6	0.84
3/2/2021		0.57					
3/3/2021	0.69		2	1.2	1.8	2.3	0.62
8/19/2021		0.71					
8/20/2021	0.72		2.5	1.2	2.3	2.5	0.66
2/8/2022				1.1	2.4	2.4	0.71
2/10/2022	0.79	0.79	2.5				
8/31/2022	0.64	0.7					
9/1/2022			2.3	1	1.8	2.2	0.71

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.04	<0.04			
6/7/2016		<0.04			<0.04	<0.04	
7/27/2016		0.008 (J)	<0.04	0.0059 (J)	<0.04		
7/28/2016						<0.04	
8/30/2016	0.0166 (J)						
9/16/2016		0.0086 (J)		0.0079 (J)			
9/19/2016			<0.04		<0.04	<0.04	
11/2/2016					<0.04		
11/3/2016		0.0077 (J)	<0.04	0.0082 (J)		<0.04	
11/14/2016	0.0166 (J)						
1/11/2017		0.0092 (J)	<0.04	0.0096 (J)			
1/13/2017					<0.04	<0.04	
2/24/2017	0.0145 (J)						
3/1/2017			<0.04	<0.04			
3/2/2017		0.0095 (J)					
3/6/2017					<0.04	<0.04	
4/26/2017			<0.04	0.0091 (J)	<0.04	<0.04	
5/2/2017		<0.04					
5/8/2017	0.0141 (J)						
6/28/2017	()		<0.04	0.0079 (J)			
6/29/2017		0.0074 (J)		. ,	<0.04	<0.04	
7/11/2017	0.0131 (J)	. ,					
10/3/2017	(1)					<0.04	
10/4/2017		0.0077 (J)		0.009 (J)	<0.04		
10/5/2017		(-,	<0.04	(-)			
10/10/2017	0.0124 (J)						
10/11/2017							0.0135 (J)
11/20/2017							0.0251 (J)
1/11/2018							0.0255 (J)
2/20/2018							<0.04
4/2/2018	0.013 (J)						***
4/3/2018	(0)						0.033 (J)
6/5/2018						0.0092 (J)	
6/6/2018					0.0049 (J)	0.0002 (0)	
6/7/2018			<0.04		(0)		
6/11/2018		0.01 (J)		0.0093 (J)			
6/28/2018		(0)					0.053
8/7/2018							0.024 (J)
9/19/2018	0.012 (J)						
9/24/2018	(-)						0.028 (J)
9/25/2018		0.0096 (J)	0.0046 (J)	0.007 (J)	<0.04	0.0054 (J)	
3/27/2019	0.013 (J)	0.0000 (0)	0.00 10 (0)	0.007 (0)	0.01	0.000 (0)	0.017 (J)
4/2/2019	(0)	0.0066 (J)				0.011 (J)	(-)
4/3/2019		0.0000 (0)	<0.04	0.0053 (J)	<0.04	0.011 (0)	
9/24/2019			-0.04	0.0000 (0)	-0.04	0.018 (J)	
9/25/2019		0.0081 (J)			<0.04	0.010 (0)	
9/26/2019		0.000. (0)	0.0062 (J)	0.0072 (J)	0.01		
10/8/2019	0.012 (J)		0.0002 (0)	0.0072 (0)			
10/9/2019	5.512 (0)						0.017 (J)
3/17/2020	0.023 (J)						(0)
3/24/2020	0.020 (0)	0.0092 (J)	0.0054 (J)	0.01 (J)	<0.04	0.016 (J)	
3/25/2020		3.0002 (0)	2.000 . (0)	3.0 . (0)		3.0.0 (3)	0.043 (J)
							V/

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	0.0076 (J)						
9/23/2020		0.0066 (J)	0.021 (J)	0.006 (J)			
9/24/2020					0.0094 (J)	0.013 (J)	0.037 (J)
3/1/2021	0.013 (J)						
3/3/2021		0.01 (J)	<0.04	0.0094 (J)	<0.04		
3/4/2021						0.0079 (J)	0.033 (J)
8/19/2021	0.011 (J)						
8/26/2021				<0.04			0.095
8/27/2021		0.011 (J)	<0.04		<0.04		
9/1/2021						<0.04	
2/8/2022	0.015 (J)						0.13
2/9/2022		0.0098 (J)	<0.04	<0.04	<0.04	<0.04	
8/30/2022		0.013 (J)	<0.04	0.014 (J)		0.012 (J)	
8/31/2022	0.0091 (J)				<0.04		0.14

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		<0.04	<0.04	<0.04	
7/26/2016		0.0047 (J)	0.0052 (J)	<0.04	
8/31/2016					0.0315 (J)
9/14/2016		<0.04	0.0071 (J)	0.01 (J)	
11/2/2016		<0.04	<0.04		
11/4/2016				<0.04	
11/28/2016					0.0095 (J)
1/12/2017			0.0076 (J)	<0.04	• •
1/13/2017		<0.04	. ,		
2/22/2017					<0.04
3/6/2017		<0.04			
3/7/2017			0.0089 (J)	<0.04	
5/1/2017		<0.04	0.0061 (J)	0.01	
5/2/2017		0.01	0.000. (0)	<0.04	
5/8/2017				-0.04	0.0084 (J)
6/27/2017			0.0079 (J)	<0.04	3.333. (4)
6/29/2017		<0.04	0.0073 (0)	TU.UT	
7/17/2017		50.0 4			0.0092 (J)
10/3/2017			0.000471	<0.04	0.0032 (0)
		<0.04	0.0094 (J)	<0.04	
10/5/2017	0.0404	<0.04			
10/12/2017	0.0401				*0.04
10/16/2017	0.450				<0.04
11/20/2017	0.156				
1/10/2018	0.15				
2/19/2018	0.146				<0.04
4/3/2018	0.12				
6/6/2018			0.0098 (J)		
6/7/2018		0.0045 (J)		<0.04	
6/28/2018	0.16				
8/6/2018					<0.04
8/7/2018	0.12				
9/24/2018	0.099				
9/26/2018		0.005 (J)	0.01 (J)	0.0057 (J)	
2/25/2019					<0.04
3/26/2019	0.096				
4/3/2019		0.0055 (J)	0.0076 (J)	0.0044 (J)	
6/12/2019					<0.04
9/24/2019			0.01 (J)	0.0049 (J)	
9/25/2019		<0.04			
10/8/2019					<0.04
10/9/2019	0.079				
3/17/2020					0.0051 (J)
3/24/2020	0.088 (J)		0.011 (J)	0.0068 (J)	
3/25/2020		0.011 (J)			
9/22/2020		<0.04	0.0079 (J)	0.0053 (J)	0.0079 (J)
9/24/2020	0.087 (J)			. ,	
3/2/2021	.,		0.0068 (J)	0.011 (J)	<0.04
3/3/2021		0.0056 (J)	\-/	\-/	
3/4/2021	0.078	(0)			
8/20/2021	0.070				<0.04
8/26/2021		<0.04	0.009 (J)	<0.04	•••
0/20/2021		TU.UT	0.000 (0)	TU.UT	
9/3/2021	0.077				

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2022	0.074				<0.04
2/10/2022			0.011 (J)	<0.04	
2/11/2022		<0.04			
8/30/2022			0.0098 (J)	<0.04	<0.04
8/31/2022	0.062	<0.04			

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.0005	<0.0005				<0.0005
6/2/2016	<0.0005				<0.0005	<0.0005	
7/25/2016			<0.0005		<0.0005		<0.0005
7/26/2016	<0.0005	<0.0005				<0.0005	
9/13/2016		<0.0005	<0.0005				
9/14/2016				<0.0005			<0.0005
9/15/2016	<0.0005					<0.0005	
9/19/2016					<0.0005		
11/1/2016		<0.0005			<0.0005	<0.0005	<0.0005
11/2/2016	<0.0005						
11/4/2016			<0.0005	<0.0005			
12/15/2016				<0.0005			
1/10/2017	<0.0005						
1/11/2017		0.0002 (J)				0.0001 (J)	8E-05 (J)
1/16/2017			<0.0005	<0.0005	<0.0005		
2/21/2017					<0.0005		
3/1/2017							<0.0005
3/2/2017		<0.0005	<0.0005			<0.0005	
3/3/2017				<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				
4/28/2017				<0.0005			
5/26/2017				<0.0005			
6/27/2017		<0.0005	<0.0005				
6/28/2017				<0.0005		<0.0005	<0.0005
6/30/2017	<0.0005				<0.0005		
3/27/2018	<0.0005		<0.0005		<0.0005		
3/28/2018				<0.0005		<0.0005	<0.0005
3/29/2018		<0.0005					
2/26/2019	<0.0005				<0.0005		
2/27/2019		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
3/28/2019		<0.0005	<0.0005				
3/29/2019	<0.0005			<0.0005			
4/1/2019					<0.0005	<0.0005	<0.0005
9/24/2019		<0.0005	<0.0005	<0.0005			
9/25/2019	<0.0005				<0.0005	<0.0005	<0.0005
2/10/2020		<0.0005	<0.0005				
2/11/2020				<0.0005			<0.0005
2/12/2020	<0.0005				<0.0005	<0.0005	
3/18/2020	<0.0005		<0.0005				
3/19/2020		<0.0005		<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						
2/10/2021	<0.0005			<0.0005		<0.0005	<0.0005
2/11/2021					<0.0005		
2/12/2021		<0.0005	<0.0005				
3/1/2021					<0.0005		
3/2/2021	<0.0005						
3/3/2021		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
8/19/2021	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.0005			<0.0005
2/9/2022		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
2/10/2022	<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

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.0005	<0.0005	<0.0005	<0.0005			
6/9/2016					0.00055 (J)	<0.0005	<0.0005
8/1/2016	<0.0005	<0.0005	<0.0005	<0.0005			
8/2/2016					0.0001 (J)	<0.0005	0.0001 (J)
9/20/2010	6 <0.0005	<0.0005	<0.0005	<0.0005			
9/21/201	6				0.0001 (J)	<0.0005	0.0002 (J)
11/7/2010	6 <0.0005	<0.0005	<0.0005	<0.0005		<0.0005	0.0002 (J)
11/8/201	6				9E-05 (J)		
1/18/201	7 <0.0005	<0.0005	<0.0005		9E-05 (J)	<0.0005	
1/19/201	7			<0.0005			0.0001 (J)
2/21/201	7 <0.0005	<0.0005				<0.0005	
2/22/201	7			<0.0005	0.0001 (J)		0.0001 (J)
2/23/201	7		<0.0005				
5/3/2017		<0.0005					
5/5/2017					9E-05 (J)	<0.0005	
5/8/2017	<0.0005		<0.0005	<0.0005			0.0002 (J)
6/30/201	7		<0.0005	<0.0005			
7/5/2017					0.0002 (J)		0.0002 (J)
7/7/2017						<0.0005	
7/10/201	7 <0.0005	<0.0005					
3/29/2018	8		<0.0005	<0.0005			<0.0005
3/30/2018	8 <0.0005	<0.0005			<0.0005	<0.0005	
2/27/2019	9 <0.0005	<0.0005	<0.0005	<0.0005	0.00014 (J)	<0.0005	0.00026 (J)
4/1/2019			<0.0005	<0.0005	0.00043 (J)		0.00022 (J)
4/2/2019	<0.0005	<0.0005			, ,	<0.0005	
9/25/2019	9 <0.0005	<0.0005					0.00024 (J)
9/26/2019	9		<0.0005	<0.0005	<0.0005	<0.0005	` '
2/13/2020		<0.0005	<0.0005	<0.0005	0.00013 (J)	<0.0005	0.00018 (J)
3/19/2020	0	<0.0005			0.00016 (J)	<0.0005	` '
3/20/2020			<0.0005	<0.0005	(1)		0.00022 (J)
9/24/2020		<0.0005	<0.0005	<0.0005	0.00027 (J)	<0.0005	0.00033 (J)
2/10/202		<0.0005	<0.0005	<0.0005			(2)
2/11/202					0.00052 (J)		
2/12/202					0.00002 (0)	0.00048 (J)	<0.0005
3/2/2021	1	<0.0005				0.00040 (3)	٠٥.٥٥٥٥
3/3/2021	<0.0005	-0.0000	<0.0005	<0.0005	0.00014 (J)	<0.0005	0.00029 (J)
8/19/2021		<0.0005	-0.0000	-0.0000	3.00014 (0)	-0.0000	0.00020 (0)
8/20/202		-0.0003	<0.0005	<0.0005	0.00027 (J)	<0.0005	0.00027 (J)
2/8/2022	-0.0003		-0.0003	<0.0005	0.00027 (J) 0.00033 (J)	<0.0005	0.00027 (J) 0.00019 (J)
2/10/2022	2 <0.0005	<0.0005	<0.0005	\0.0003	0.00033 (3)	VU.UUUJ	0.00013 (3)
8/31/202		<0.0005	~ 0.0003				
9/1/2022	2 <0.0005	<0.0005	<0.0005	<0.0005	0.00017 (1)	<0.0005	0.0003 (1)
9/1/2022			<0.0005	<0.0005	0.00017 (J)	<0.0005	0.0002 (J)

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.0005	<0.0005			
6/7/2016		<0.0005			<0.0005	<0.0005	
7/27/2016		<0.0005	<0.0005	<0.0005	<0.0005		
7/28/2016						<0.0005	
8/30/2016	0.0001 (J)						
9/16/2016		<0.0005		<0.0005			
9/19/2016			<0.0005		<0.0005	<0.0005	
11/2/2016					<0.0005		
11/3/2016		<0.0005	<0.0005	<0.0005		<0.0005	
11/14/2016	0.0001 (J)						
1/11/2017		0.0001 (J)	<0.0005	0.0001 (J)			
1/13/2017					<0.0005	<0.0005	
2/24/2017	9E-05 (J)						
3/1/2017			<0.0005	<0.0005			
3/2/2017		<0.0005					
3/6/2017					<0.0005	<0.0005	
4/26/2017			<0.0005	<0.0005	<0.0005	<0.0005	
5/2/2017		<0.0005					
5/8/2017	0.0001 (J)						
6/28/2017			<0.0005	<0.0005			
6/29/2017		<0.0005			<0.0005	<0.0005	
7/11/2017	<0.0005						
10/10/2017	<0.0005						
10/11/2017							<0.0005
11/20/2017							<0.0005
1/11/2018							<0.0005
2/20/2018							<0.0005
3/28/2018		<0.0005	<0.0005	<0.0005			
3/29/2018					<0.0005	<0.0005	
4/2/2018	<0.0005						
4/3/2018							<0.0005
6/5/2018						<0.0005	
6/6/2018					<0.0005		
6/7/2018			<0.0005				
6/11/2018		<0.0005		<0.0005			
6/28/2018							<0.0005
8/7/2018	-0.0005						<0.0005
9/19/2018	<0.0005						-0.0005
9/24/2018		<0.000E	<0.0005	<0.0005	<0.0005	0 6E 0E (I)	<0.0005
9/25/2018		<0.0005	<0.0005	<0.0005	<0.0005	9.6E-05 (J)	
3/5/2019		<0.0005	<0.000E	<0.0005	<0.0005	<0.0005	
3/6/2019 4/2/2019		<0.0005	<0.0005			<0.0005	
		<0.0003	<0.000E	<0.0005	<0.000E	<0.0003	
4/3/2019 8/20/2019	<0.0005		<0.0005	<0.0005	<0.0005		
	<0.0005						<0.0005
8/21/2019 9/24/2019						<0.0005	<0.0005
		<0.0005			<0.000E	~0.0003	
9/25/2019 9/26/2019		<0.0003	<0.0005	<0.0005	<0.0005		
10/8/2019	<0.0005		-0.0003	-0.0003			
10/8/2019	~0.000						<0.0005
2/11/2020		<0.0005	<0.0005	<0.0005			-0.0000
2/11/2020		~ 0.0003	~0.0003	-0.0003			

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					<0.0005	<0.0005	<0.0005
3/17/2020	<0.0005						
3/24/2020		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
3/25/2020							<0.0005
8/27/2020	<0.0005						
9/23/2020		<0.0005	<0.0005	<0.0005			
9/24/2020					<0.0005	<0.0005	<0.0005
2/9/2021			<0.0005	<0.0005	<0.0005	0.00041 (J)	
2/10/2021							0.00019 (J)
3/3/2021		<0.0005	<0.0005	<0.0005	<0.0005		
3/4/2021						<0.0005	0.0003 (J)
8/19/2021	<0.0005						
8/26/2021				<0.0005			0.00049 (J)
8/27/2021		<0.0005	<0.0005		<0.0005		
9/1/2021						<0.0005	
2/8/2022	<0.0005						0.00063
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
8/30/2022		<0.0005	<0.0005	<0.0005		<0.0005	
8/31/2022	<0.0005				<0.0005		0.00044 (J)

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
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
3/10/2011					<0.0005
9/8/2011					<0.0005
3/5/2012					<0.0005
9/10/2012					<0.0005
2/6/2013					<0.0005
8/12/2013					<0.0005
2/5/2014					<0.0005
8/5/2014					<0.0005
2/4/2015					<0.0005
8/3/2015					<0.0005
2/16/2016					<0.0005
6/2/2016		<0.0005	<0.0005	<0.0005	
7/26/2016		<0.0005	<0.0005	<0.0005	
8/31/2016					<0.0005
9/14/2016		<0.0005	<0.0005	<0.0005	
11/2/2016		<0.0005	<0.0005		
11/4/2016				<0.0005	
11/28/2016					<0.0005
1/12/2017			<0.0005	9E-05 (J)	
1/13/2017		<0.0005			
2/22/2017					<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					<0.0005
6/27/2017			<0.0005	<0.0005	
6/29/2017		<0.0005			
7/17/2017					<0.0005
10/12/2017	<0.0005				
10/16/2017					<0.0005
11/20/2017	<0.0005				
1/10/2018	<0.0005				
2/19/2018	<0.0005				<0.0005
3/29/2018		<0.0005	<0.0005	<0.0005	
4/3/2018	<0.0005				
6/6/2018			<0.0005		
6/7/2018		<0.0005		<0.0005	
6/28/2018	<0.0005				
8/6/2018					<0.0005
8/7/2018	<0.0005				
9/24/2018	<0.0005				
9/26/2018		<0.0005	<0.0005	<0.0005	
2/25/2019					<0.0005

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.0005	<0.0005	<0.0005	
4/3/2019		<0.0005	<0.0005	<0.0005	
6/12/2019					<0.0005
8/19/2019					<0.0005
8/21/2019	<0.0005				
9/24/2019			<0.0005	<0.0005	
9/25/2019		<0.0005			
10/8/2019					<0.0005
10/9/2019	<0.0005				
2/12/2020	<0.0005	<0.0005	<0.0005	<0.0005	
3/17/2020					<0.0005
3/24/2020	<0.0005		<0.0005	<0.0005	
3/25/2020		<0.0005			
8/26/2020					<0.0005
9/22/2020		<0.0005	<0.0005	<0.0005	<0.0005
9/24/2020	<0.0005				
2/8/2021			<0.0005	<0.0005	
2/9/2021		<0.0005			
2/10/2021	<0.0005				
3/2/2021			<0.0005	<0.0005	<0.0005
3/3/2021		<0.0005			
3/4/2021	<0.0005				
8/20/2021					<0.0005
8/26/2021		<0.0005	<0.0005	<0.0005	
9/3/2021	<0.0005				
2/8/2022	<0.0005				<0.0005
2/10/2022			<0.0005	<0.0005	
2/11/2022		<0.0005			
8/30/2022			<0.0005	<0.0005	<0.0005
8/31/2022	<0.0005	<0.0005			

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13		YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
	6/1/2016		12	2.5				21
1400 1200	6/2/2016	1.3				1.3	28	
1400 1200	7/25/2016			2.16		1.17		20.3
1945 1945	7/26/2016	1.24	11				24.5	
1945 1945	9/13/2016			2.21				
1112016					23.5			19.7
111/12016		1.17					27	
1112216						1.05		
1142018			11				25.6	18.4
144016		1.23						
1002017				2.67	23.7			
111/2017								
1112017		1.24						
1450017			11.2				27.5	20.3
1.1001 1				2.45	23.3	1.23		
No.								
3/2017								18.6
33/2017			11	2.57			27.5	
382017					25.1		==	
4/26/2017		1 21			20.1			
4/27/2017						1.03	30.4	25.6
A/282017		1.14	11 1	2 38		1.00	00.4	20.0
\$\cup 272017 13.8			11.1	2.30	30.7			
6/27/2017								
6/38/2017			12.0	2.36	20.2			
6/30/2017 1.24 14 2.21 26.7 1.09 29.7 22.1 20.7 1.09/2017 1.11 1.09/2017 1.11 1.09/2017 1.11 1.09/2017 1.11 1.09/2017 1.11 1.09/2017 1.11 1.09/2017 1.11 1.09/2017 1.11 1.09/2017 1.11 1.09/2017 1.11 1.09/2017 1.11 1.09/2017 1.11 1.09/2017 1.11 1.09/2017 1.11 1.11 1.09/2017 1.11			15.0	2.50	26.1		20.8	23.0
10/3/2017		1 24			20.1	1 13	20.0	20.0
104/2017		1.24	14	2 21	26.7	1.10		
10/5/2017 1.11 6/5/2018 15.2 (J) 6/5/2018 15.2 (J) 2.3 2.5 29.1 (5/7/2018 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.1 1.2 1.2 1.1 1.2			1-7	2.21	20.7	1 09	29.7	22 1
6652018		1 11				1.00	20.7	22.1
66/2018		1.11	15.2 (.1)					
67/2018 1.1 25 29.1 6/8/2018 1.1 21.9 (J) 6/11/2018 1.1 2.1 10/1/2018 0.99 15.1 1.8 25 26.9 19.7 10/2/2018 13.3 (J) 2.2 1.1 2.2 <th< td=""><td></td><td></td><td>10.2 (0)</td><td>23</td><td></td><td></td><td></td><td></td></th<>			10.2 (0)	23				
68/2018 1.1 6/11/2018				2.0	25		29 1	
6/11/2018		1.1			20		20.1	21.9 (1)
10/1/2018 0.99 15.1 1.8 25 26.9 19.7 10/2/2018		1.1				11		21.3 (0)
10/2/2018		0.99	15.1	1.8	25	1.1	26.9	10.7
3/28/2019 1.1 2.2 3/29/2019 1.1 23.5 (J) 4/1/2019 15.8 2.3 26.4 9/24/2019 1.1 2.1 2.1 3/18/2020 1.1 27.4 1.2 31.5 21.9 9/23/2020 14.1 1.8 26.3 28.6 23.6 9/24/2020 1.3 1.1 1.8 26.3 2.8 2.3 3/1/2021 1.2 1.3 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.9 2.3 2.6 2.1 2.9 2.3 2.6 2.1 2.0 <		0.55	10.1	1.0	23	11	20.5	10.7
3/29/2019 1.1 23.5 (J) 4/1/2019 15.8 2.3 26.4 9/25/2019 1.1 2.1 2.1 3/18/2020 1.1 2.1 27.4 1.2 31.5 21.9 9/23/2020 14.1 1.8 26.3 28.6 23.6 9/24/2020 1.3 1.1 1.2 1.2 3/19/2021 1.2 1.4.1 1.8 25.6 29.8 20.6 8/19/2021 1.2 14.2 2 1.2 28.1 20.6			13 3 (1)	22		1.1		
4/1/2019 15.8 2.3 26.4 9/25/2019 1.1 1.1 29.5 22.4 3/18/2020 1.1 2.1 1.2 31.5 21.9 3/19/2020 14.1 1.8 26.3 28.6 23.6 9/24/2020 1.3 1.3 1.1 1.2 1.2 3/1/2021 1.2 1.2 2.63 2.9.8 20.6 8/19/2021 1.2 1.4.1 1.8 25.6 29.8 20.6 8/19/2021 1.2 14.2 2 1.2 28.1 2		1.1	10.0 (0)	2.2	23.5 (1)			
9/24/2019 1.1 15.8 2.3 26.4 9/25/2019 1.1 1.1 29.5 22.4 3/18/2020 1.1 2.1 27.4 1.2 31.5 21.9 9/23/2020 14.1 1.8 26.3 28.6 23.6 9/24/2020 1.3 1.1 1.2 3/1/2021 1.2 1.2 1.2 3/3/2021 14.1 1.8 25.6 29.8 20.6 8/19/2021 1.2 14.2 2 1.2 28.1		1.1			20.0 (0)	1.2	30.1	20.4 (1)
9/25/2019 1.1 29.5 22.4 3/18/2020 1.1 2.1 3/19/2020 15 27.4 1.2 31.5 21.9 9/23/2020 14.1 1.8 26.3 28.6 23.6 9/24/2020 1.3 1.1 1.2 1.2 3/1/2021 1.2 1.2 29.8 20.6 8/19/2021 1.2 14.2 2 1.2 28.1			15.8	23	26.4	1.5	30.1	20.7 (0)
3/18/2020 1.1 2.1 3/19/2020 15 27.4 1.2 31.5 21.9 9/23/2020 14.1 1.8 26.3 28.6 23.6 9/24/2020 1.3 1.1 1.2 3/1/2021 1.2 1.2 1.2 3/2/2021 1.2 14.1 1.8 25.6 29.8 20.6 8/19/2021 1.2 14.2 2 1.2 28.1		11	10.0	2.0	20.7	11	29.5	22.4
3/19/2020 15 27.4 1.2 31.5 21.9 9/23/2020 14.1 1.8 26.3 28.6 23.6 9/24/2020 1.3 1.1 1.2 3/1/2021 1.2 1.2 1.2 3/2/2021 1.2 14.1 1.8 25.6 29.8 20.6 8/19/2021 1.2 14.2 2 1.2 28.1				21			20.0	
9/23/2020 14.1 1.8 26.3 28.6 23.6 9/24/2020 1.3 1.1 1.2 3/1/2021 1.2 1.2 14.1 1.8 25.6 29.8 20.6 8/19/2021 1.2 14.2 2 1.2 28.1		1.1	15	۷. ۱	27.4	1 2	31.5	21.0
9/24/2020 1.1 9/25/2020 1.3 3/1/2021 1.2 3/2/2021 1.2 3/3/2021 14.1 1.8 25.6 29.8 20.6 8/19/2021 1.2 14.2 2 1.2 28.1				1.8		1.4		
9/25/2020 1.3 3/1/2021 1.2 3/2/2021 1.2 3/3/2021 14.1 1.8 25.6 29.8 20.6 8/19/2021 1.2 14.2 2 1.2 28.1			17.1	1.0	20.0	11	20.0	20.0
3/1/2021 1.2 3/2/2021 1.2 3/3/2021 1.2 14.1 1.8 25.6 29.8 20.6 8/19/2021 1.2 14.2 2 1.2 28.1		1.3						
3/2/2021 1.2 3/3/2021 14.1 1.8 25.6 29.8 20.6 8/19/2021 1.2 14.2 2 1.2 28.1		1.0				12		
3/3/2021 14.1 1.8 25.6 29.8 20.6 8/19/2021 1.2 14.2 2 1.2 28.1		1.2				1.4		
8/19/2021 1.2 14.2 2 1.2 28.1		1.6	14 1	1.8	25.6		29.8	20.6
		1.2			20.0	12		20.0
		1.6	17.4	-	22.6	1.2	20.1	24.7
	5.2.72021							

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		14.9	2.1	23.4		30.3	23.7
2/10/2022	1.3						
2/11/2022					1.5		
8/30/2022		14.9		25.4			
8/31/2022	1.3		1.9		1.3	28.7	23.5

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	15	13	25	44			
6/9/2016					36	26	12
8/1/2016	14.5	12.2	21.4	36.3			
8/2/2016					35.5	25.8	11.7
9/20/2016	15.3	12.2	26.3	39.5			
9/21/2016					33.2	24.9	11.1
11/7/2016	13.8	12.1	26.1	34.9		25.1	11.4
11/8/2016					33.8		
1/18/2017	15.1	11.5	25.6		33.4	26.1	
1/19/2017				37			12
2/21/2017	14.6	11.7				29	
2/22/2017				37.6	33.8		11.2
2/23/2017			28.2				
5/3/2017		11.9					
5/5/2017					33.5	28.1	
5/8/2017	15.2		27.2	35.7			11.2
6/30/2017			27.2	36.2			
7/5/2017					33.4		11.9
7/7/2017						28.6	
7/10/2017	17.4	12.7					
10/5/2017					36.4		12
10/6/2017				39.8			
10/9/2017			27.3			27.3	
10/10/2017	15.5	11.4					
6/11/2018							12.1
6/12/2018				36.2	33.4	26.4	
6/13/2018	15.5	12.5	29.4				
10/2/2018	14.7	12.4 (J)	29.2	39.1			11.7 (J)
10/3/2018					32.6	25.8	
4/1/2019			27.4	38	33.8		11.9 (J)
4/2/2019	16.1 (J)	11.9 (J)				25.7	
9/25/2019	15.6	11.6					10.7
9/26/2019			24.2	37.5	32	26.1	
3/19/2020		13			37.3	30.4	
3/20/2020	17.1		30.3	42.1			12.7
9/24/2020	16.9	11.3	27.9	38.6	34.3	30.8	12.4
3/2/2021		12.9					
3/3/2021	16.1		25.7	30.2	30.9	28.4	9.5
8/19/2021		11.5					
8/20/2021	17.2		25.7	29.9	33.1	27.8	10.2
2/8/2022				27.2	31.8	26.7	9.3
2/10/2022	16.4	11.6	27.4				
8/31/2022	16.4	10.8					
9/1/2022			28.2	21.3	26.3	33.1	11

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			6.2	1.4			
6/7/2016		2.2			2.3	3.7	
7/27/2016		2	4.73	1.19	2.08		
7/28/2016						3.15	
8/30/2016	20.9						
9/16/2016		1.97		1.5			
9/19/2016			4.76		1.97	3.17	
11/2/2016					2.13		
11/3/2016		1.99	5.25	1.31		3.4	
11/14/2016	18.6						
1/11/2017		2.28	4.74	1.25			
1/13/2017					2.45	4.98	
2/24/2017	16.1						
3/1/2017			5.37	1.26			
3/2/2017		2.15					
3/6/2017					2.48	6.28	
4/26/2017			4.28	1.05	2.3	6.65	
5/2/2017		1.95					
5/8/2017	14.6						
6/28/2017			4.95	1.06			
6/29/2017		2.02			2.54	6.04	
7/11/2017	14.3						
10/3/2017						8.28	
10/4/2017		2.03		1.1	2.25		
10/5/2017			5.28				
10/10/2017	12.1						
10/11/2017							2.74
11/20/2017							1.81
1/11/2018							1.54
2/20/2018							1.71
4/2/2018	<25						
4/3/2018							1.4
6/5/2018						9.1	
6/6/2018					2.3		
6/7/2018			4.8				
6/11/2018		2.1		1.4			
6/28/2018							1.4
8/7/2018							1.2
9/19/2018	11.1 (J)						
9/24/2018							1.1
9/25/2018		2.1	4.6	1	2.3	10.4 (J)	
3/27/2019	10.8 (J)						1.5
4/2/2019		2.5				8.8	
4/3/2019			5.3	1.2	2.9		
9/24/2019						7.7	
9/25/2019		2.6			2.4		
9/26/2019			4.9	1.1			
10/8/2019	9.7						
10/9/2019							2.4
3/17/2020	14.8						
3/24/2020		2.7	5.3	1	2.6	6	
3/25/2020							2.7

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	10.1						
9/23/2020		2.6	5.2	0.91 (J)			
9/24/2020					2.6	7.8	3.7
3/1/2021	10.3						
3/3/2021		2.5	5.2	0.96 (J)	2.4		
3/4/2021						8.7	8.2
8/19/2021	9.6						
8/26/2021				0.98 (J)			14.1
8/27/2021		2.7	5.1		2.4		
9/1/2021						9.5	
2/8/2022	9.4						15.2
2/9/2022		2.8	5.1	0.87 (J)	2.3	9.8	
8/30/2022		3	5.7	0.77 (J)		7.3	
8/31/2022	9.6				2.4		16.3

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		8.8	33	2.4	
7/26/2016		7.69	32.3	2.12	
8/31/2016					9.31
9/14/2016		8.49	31	2.18	
11/2/2016		7.83	30.9		
11/4/2016				2.17 (J)	
11/28/2016					9.47 (B)
1/12/2017			35.7	2.37	
1/13/2017		8.08			
2/22/2017					10.4
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				2	14.2
6/27/2017			36.5	2.13	17.L
6/29/2017		8.81	30.3	2.13	
		0.01			14.1
7/17/2017			20.0	0.15	14.1
10/3/2017		0.00	30.9	2.15	
10/5/2017		9.29			
10/12/2017	2.9				
10/16/2017					13.6
11/20/2017	10.4				
1/10/2018	10.2				
2/19/2018	<25				<25
4/3/2018	6.3				
6/6/2018			26.2		
6/7/2018		8.2		2.3	
6/28/2018	6.7				
8/6/2018					11.4 (J)
8/7/2018	6.3				
9/24/2018	5.7				
9/26/2018		9.5 (J)	25.8	2.3	
2/25/2019					12.7 (J)
3/26/2019	5.6				
4/3/2019		8.4	24.7 (J)	2.8	
6/12/2019					18.9
9/24/2019			25.8	2.5	
9/25/2019		9.5			
10/8/2019					28.3
10/9/2019	4.9				20.0
3/17/2020	4.5				24.3
3/24/2020	4.8		26.1	2.5	24.0
	4.0	10.5	20.1	2.5	
3/25/2020			27.2	2.6	24
9/22/2020		9.6	27.2	2.6	31
9/24/2020	4.4		4.0		
3/2/2021			1.6	2.6	34.2
3/3/2021		7.7			
3/4/2021	4.6				
8/20/2021					26.5
8/26/2021		7.6	25.2	2.5	
9/3/2021	5.6				

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2022	6				25.6
2/10/2022			24.8	2.5	
2/11/2022		7.5			
8/30/2022			24.8	2.5	23.5
8/31/2022	6.2	8.9			

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		1.3	1.6				1.3
6/2/2016	4.1				1.9	1.4	
7/25/2016			1.4		1.7		1.3
7/26/2016	4	1.2				1.6	
9/13/2016		1.1	1.3				
9/14/2016				1.1			1.3
9/15/2016	4.2					1.5	
9/19/2016					1.6		
11/1/2016		1.3			1.8	1.7	1.4
11/2/2016	4.9						
11/4/2016			1.6	1.4			
12/15/2016				2.9			
1/10/2017	4.1						
1/11/2017		1.1				1.2	1.1
1/16/2017			1.4	0.98	1.7		
2/21/2017					1.7		
3/1/2017							1.1
3/2/2017		1	1.3			1.2	
3/3/2017			1.0	1.1		1.2	
3/8/2017	4.2			1.1			
4/26/2017	4.1				1.7	1.2	1.1
4/27/2017	7.1	1	1.3		1.7	1.2	1.1
4/28/2017			1.5	0.91			
5/26/2017				0.93			
6/27/2017		1.1	1.4	0.93			
		1.1	1.4	•		1.2	10
6/28/2017 6/30/2017	2.7			1	1.0	1.3	1.2
	3.7	4.4	4.7	1.0	1.8		
10/3/2017		1.1	1.7	1.2	1.0	1.5	10
10/4/2017	2.0				1.8	1.5	1.2
10/5/2017	3.8	1.1					
6/5/2018		1.1	4.4				
6/6/2018			1.4			4.0	
6/7/2018	0.4			1		1.2	40
6/8/2018	3.4						1.2
6/11/2018					2		
10/1/2018	3.8	1.1	1.4	1.1		1.5	1.2
10/2/2018			4.5		1.8		
3/28/2019		1.4	1.5				
3/29/2019	4.2			1.2			
4/1/2019					1.7	1.2	1.1
9/24/2019		1.1	1.3	0.95 (J)			
9/25/2019	4.8				1.6	1.1	1.1
3/18/2020	5.2		1.4				
3/19/2020		1.1		0.97 (J)	1.8	1.2	1.1
9/23/2020		0.99 (J)	1.2	0.88 (J)		1.1	1
9/24/2020					1.5		
9/25/2020	5.3						
3/1/2021					1.6		
3/2/2021	4.9						
3/3/2021		0.96 (J)	1.2	0.86 (J)		1.1	0.99 (J)
8/19/2021	5	1.1	1.3		1.6	1.1	
8/27/2021				0.99 (J)			1.1

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		1	1.3	1 (J)		1.1	1.1
2/10/2022	4.7						
2/11/2022					2.1		
8/30/2022		1.3		1.2			
8/31/2022	4.6		1.5		1.8	1.3	1.3

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	19	18	14	22			
6/9/2016					18	19	15
8/1/2016	17	16	13	21			
8/2/2016					18	18	14
9/20/2016	18	18	13	22			
9/21/2016					18	19	14
11/7/2016	17	16	14	24		20	14
11/8/2016					18		
1/18/2017	19	17	14		18	20	
1/19/2017				22			14
2/21/2017	18	16				19	
2/22/2017				21	18		13
2/23/2017			14				
5/3/2017		17					
5/5/2017					19	21	
5/8/2017	18		14	22			15
6/30/2017			14	21			
7/5/2017					18		14
7/7/2017						20	
7/10/2017	19	15					
10/5/2017					19		15
10/6/2017				21			
10/9/2017			14			20	
10/10/2017	19	15					
6/11/2018							13.6
6/12/2018				19.8	17.6	19.3	
6/13/2018	18.1	14.2	13.1				
10/2/2018	18.3	14	13.8	19.9			13.4
10/3/2018					17.7	20.2	
4/1/2019			14.2	19.7	17.2		13.1
4/2/2019	17.9	13.5				19.5	
9/25/2019	17.1	14.4					11.3
9/26/2019			14.3	19.6	17.3	19.5	
3/19/2020		15.4			16	18.1	
3/20/2020	17.7		13	17.7			11.3
9/24/2020	17.1	15.7	13.3	17	15.1	18	10.9
3/2/2021		13.2					
3/3/2021	16.6		13	4	14.6	18	6.7
8/19/2021		13.5					
8/20/2021	14.4		13.7	15.2	15.2	18.1	6.8
2/8/2022				13	15.2	18.3	5.5
2/10/2022	15.4	14	13.1				
8/31/2022	16.6	15					
9/1/2022			13.4	10.4	10.4	16.5	8.1

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			6.8	6.4			
6/7/2016		4.5			1.9	2.8	
7/27/2016		4.5	6.7	6.2	1.9		
7/28/2016						2.6	
8/30/2016	5.2						
9/16/2016	0.2	4.5		6.1			
9/19/2016			7	5	1.9	2.4	
11/2/2016			•		2.6	2.7	
11/3/2016		5.4	7.5	7.4	2.0	2.9	
11/14/2016	6.4	5.4	7.5	7.4		2.5	
1/11/2017	0.4	4.7	6.5	6.1			
1/13/2017		4.7	0.5	0.1	2.3	2.5	
2/24/2017	5.5				2.3	2.5	
	5.5		6.9	6			
3/1/2017		4.8	0.9	6			
3/2/2017		4.0			1.0	0.1	
3/6/2017			7	6.5	1.9 2	2.1 2.1	
4/26/2017		4.6	,	0.0	2	Z. I	
5/2/2017	5.0	4.6					
5/8/2017	5.8		_	0.4			
6/28/2017			7	6.4			
6/29/2017		4.5			2.6	2.8	
7/11/2017	5.8						
10/3/2017						2.2	
10/4/2017		4.7		6.8	2.6		
10/5/2017			7				
10/10/2017	5.9						
10/11/2017							2.4
11/20/2017							1.8
1/11/2018							1.6
2/20/2018							2
4/2/2018	4.8						
4/3/2018							3.3
6/5/2018						1.7	
6/6/2018					2.7		
6/7/2018			6.8				
6/11/2018		4.9		6.8			
6/28/2018							2.1
8/7/2018							1.2
9/19/2018	4						
9/24/2018							1.3
9/25/2018		5.6	7.9	7.8	3.6	2.2	
3/27/2019	4.3						1.4
4/2/2019		4.8				2.5	
4/3/2019			6.9	6.3	3.1		
9/24/2019						3.1	
9/25/2019		5.7			2.8		
9/26/2019			7	7.1			
10/8/2019	4.4						
10/9/2019							2.1
3/17/2020	4.1						
3/24/2020		5	7	6.8	2.7	2.8	
3/25/2020							1.9

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	4.2						
9/23/2020		6.6	7.2	7.2			
9/24/2020					2.7	2	2.7
3/1/2021	3.7						
3/3/2021		7.1	7	7.2	2.7		
3/4/2021						1.8	4.9
8/19/2021	3.5						
8/26/2021				7.3			7.2
8/27/2021		8.5	7.4		2.8		
9/1/2021						1.8	
2/8/2022	3.2						7.4
2/9/2022		10.9	7.5	7	2.8	1.7	
8/30/2022		12	7.9	7		2.4	
8/31/2022	3.5				2.9		6.7

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		3.7	7.2	4.3	
7/26/2016		3.6	6.6	4.4	
8/31/2016					4
9/14/2016		3.4	6.6	3.8	
11/2/2016		4.5	7.6		
11/4/2016				4.8	
11/28/2016					4.2
1/12/2017			6.8	3.8	
1/13/2017		4.2			
2/22/2017					3.7
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					4.2
6/27/2017			7	4.3	•
6/29/2017		4.2	,	7.0	
7/17/2017		7.4			3.8
10/3/2017			6.5	4.2	J.0
		4.7	6.5	4.2	
10/5/2017	2.0	4.7			
10/12/2017	3.8				4.0
10/16/2017					4.2
11/20/2017	4.4				
1/10/2018	4.6				
2/19/2018	4.6				4.3
4/3/2018	5.9				
6/6/2018			4.7		
6/7/2018		4.4		4.5	
6/28/2018	5				
8/6/2018					3.8
8/7/2018	4.3				
9/24/2018	4.9				
9/26/2018		4.8	4.8	5.1	
2/25/2019					4.1
3/26/2019	4.4				
4/3/2019		4.3	4	4.2	
6/12/2019					4.7
9/24/2019			3.7	4.5	
9/25/2019		4.5			
10/8/2019					5.1
10/9/2019	5.1				
3/17/2020	•				4.8
3/24/2020	4.7		3.5	4.3	-
3/25/2020	***	3.9	0.0		
9/22/2020		4.5	3.6	4.2	4.2
9/24/2020	5	4.5	J.U	7.4	4.4
	J		2.2	4.2	4.1
3/2/2021		4.4	3.2	4.3	4.1
3/3/2021	4.0	4.1			
3/4/2021	4.9				
8/20/2021					5.2
8/26/2021		4.4	3.4	4.3	
9/3/2021	5.5				

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2022	6.2				5.7
2/10/2022			3.2	4.4	
2/11/2022		4.1			
8/30/2022			3.5	4.4	6.3
8/31/2022	6.3	4.4			

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.0035	<0.005				<0.005
6/2/2016	<0.005				<0.005	0.0013 (J)	
7/25/2016			<0.005		<0.005		<0.005
7/26/2016	<0.005	<0.005				<0.005	
9/13/2016		<0.005	<0.005				
9/14/2016				<0.005			<0.005
9/15/2016	<0.005					<0.005	
9/19/2016					<0.005		
11/1/2016		<0.005			<0.005	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			<0.005	<0.005			
12/15/2016				<0.005			
1/10/2017	<0.005						
1/11/2017		<0.005				<0.005	<0.005
1/16/2017			<0.005	<0.005	<0.005		
2/21/2017					<0.005		
3/1/2017							0.0004 (J)
3/2/2017		0.0009 (J)	0.0004 (J)			0.0006 (J)	
3/3/2017				0.0005 (J)			
3/8/2017	<0.005						
4/26/2017	<0.005				0.0016 (J)	<0.005	<0.005
4/27/2017		<0.005	<0.005				
4/28/2017				0.0004 (J)			
5/26/2017				<0.005			
6/27/2017		<0.005	<0.005				
6/28/2017				<0.005		<0.005	<0.005
6/30/2017	<0.005				<0.005		
3/27/2018	<0.005		<0.005		<0.005		
3/28/2018				<0.005		<0.005	<0.005
3/29/2018		<0.005					
2/26/2019	<0.005				<0.005		
2/27/2019		<0.005	<0.005	<0.005		<0.005	<0.005
3/28/2019		<0.005	0.0021 (J)				
3/29/2019	<0.005			<0.005			
4/1/2019					<0.005	<0.005	<0.005
9/24/2019		0.00072 (J)	0.0028 (J)	<0.005			
9/25/2019	<0.005				<0.005	0.0014 (J)	0.0019 (J)
2/10/2020		0.00042 (J)	<0.005				
2/11/2020				<0.005			<0.005
2/12/2020	<0.005				<0.005	<0.005	
3/18/2020	<0.005		0.00044 (J)				
3/19/2020		0.00084 (J)		0.00048 (J)	<0.005	<0.005	<0.005
9/23/2020		0.00062 (J)	0.00058 (J)	<0.005		<0.005	<0.005
9/24/2020					<0.005		
9/25/2020	<0.005						
2/10/2021	<0.005			<0.005		<0.005	<0.005
2/11/2021					<0.005		
2/12/2021		<0.005	<0.005				
3/1/2021					<0.005		
3/2/2021	<0.005						
3/3/2021		<0.005	<0.005	<0.005		<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005		<0.005	<0.005	

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.005			<0.005
2/9/2022		<0.005	<0.005	<0.005		<0.005	<0.005
2/10/2022	<0.005						
2/11/2022					<0.005		
8/30/2022		0.0011 (J)		<0.005			
8/31/2022	<0.005		<0.005		<0.005	<0.005	<0.005

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	<0.005	<0.005	<0.005			
6/9/2016					<0.005	<0.005	<0.005
8/1/2016	0.0008 (J)	0.0026 (J)	<0.005	<0.005			
8/2/2016					0.0005 (J)	0.0005 (J)	0.0005 (J)
9/20/2016	<0.005	0.001 (J)	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	0.0013 (J)	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	0.002 (J)	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	0.0019 (J)				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		0.0037 (J)					
5/5/2017					<0.005	<0.005	
5/8/2017	0.0006 (J)		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		<0.005
7/7/2017						<0.005	
7/10/2017	<0.005 (*)	<0.005 (*)					
3/29/2018	.,	.,	<0.005	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	<0.005	
2/27/2019	0.0049 (J)	0.0055 (J)	<0.005	0.015	<0.005	<0.005	<0.005
4/1/2019	(-,	(-,	<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	0.003 (J)				<0.005	
9/25/2019	0.00048 (J)	0.0012 (J)					<0.005
9/26/2019	(1)	(-,	<0.005	<0.005	0.00044 (J)	<0.005	
2/13/2020	0.00044 (J)	0.0012 (J)	<0.005	<0.005	0.00047 (J)	<0.005	<0.005
3/19/2020	(1)	0.0018 (J)			<0.005	0.00049 (J)	
3/20/2020	0.0009 (J)	(-,	<0.005	0.0005 (J)		(-,	<0.005
9/24/2020	0.00067 (J)	0.00068 (J)	<0.005	0.00057 (J)	<0.005	0.0006 (J)	<0.005
2/10/2021	0.00065 (J)	0.00091 (J)	<0.005	0.0027 (J)		.,	
2/11/2021	. ,	. ,		()	<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		0.001 (J)					
3/3/2021	<0.005	.,	<0.005	0.00058 (J)	<0.005	<0.005	<0.005
8/19/2021		0.0012 (J)		\-,'			
8/20/2021	<0.005	- · · · · · · · · · · · · · · · · · · ·	0.012	0.0041 (J)	<0.005	<0.005	<0.005
2/8/2022			-	<0.005	<0.005	<0.005	<0.005
2/10/2022	<0.005	<0.005	<0.005				
8/31/2022	<0.005	<0.005					
9/1/2022	2.000	2.000	<0.005	<0.005	<0.005	<0.005	<0.005
JIIILOLL			3.000	3.000	3.000	3.000	0.000

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			0.0012 (J)	<0.005			
6/7/2016		<0.005			<0.005	<0.005	
7/27/2016		0.0008 (J)	0.0007 (J)	0.0006 (J)	0.0005 (J)		
7/28/2016						<0.005	
8/30/2016	<0.005						
9/16/2016		<0.005		<0.005			
9/19/2016			<0.005		<0.005	<0.005	
11/2/2016					<0.005		
11/3/2016		<0.005	<0.005	<0.005		<0.005	
11/14/2016	0.0093 (J)						
1/11/2017		<0.005	<0.005	<0.005			
1/13/2017					<0.005	<0.005	
2/24/2017	<0.005						
3/1/2017			0.0012 (J)	<0.005			
3/2/2017		0.001 (J)					
3/6/2017					<0.005	<0.005	
4/26/2017			0.0005 (J)	0.0003 (J)	0.0007 (J)	<0.005	
5/2/2017		0.0007 (J)					
5/8/2017	<0.005						
6/28/2017			0.0006 (J)	<0.005			
6/29/2017		0.0006 (J)			0.0005 (J)	<0.005	
7/11/2017	<0.005						
10/10/2017	<0.005						
10/11/2017							<0.005
11/20/2017							<0.005
1/11/2018							<0.005
2/20/2018							<0.005
3/28/2018		<0.005	<0.005	<0.005			
3/29/2018					<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
3/5/2019		<0.005		<0.005	<0.005	<0.005	
3/6/2019			<0.005				
8/20/2019	<0.005						
8/21/2019							<0.005
10/9/2019							<0.005
2/11/2020		0.00087 (J)	0.001 (J)	0.00088 (J)			
2/12/2020					0.00045 (J)	<0.005	<0.005
3/24/2020		0.00087 (J)	0.00095 (J)	0.0011 (J)	0.00077 (J)	<0.005	
3/25/2020							<0.005
8/27/2020	<0.005						
9/22/2020	<0.005						
9/23/2020		0.00098 (J)	0.00092 (J)	0.0012 (J)			
9/24/2020					0.00076 (J)	<0.005	<0.005
2/9/2021			0.00083 (J)	0.0013 (J)	0.00056 (J)	<0.005	
2/10/2021							<0.005
3/1/2021	<0.005						
3/3/2021		0.00082 (J)	0.00087 (J)	0.001 (J)	<0.005		

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/4/2021						<0.005	<0.005
8/19/2021	<0.005						
8/26/2021				<0.005			<0.005
8/27/2021		<0.005	<0.005		<0.005		
9/1/2021						<0.005	
2/8/2022	<0.005						<0.005
2/9/2022		<0.005	<0.005	0.0014 (J)	<0.005	<0.005	
8/30/2022		<0.005	<0.005	0.0015 (J)		<0.005	
8/31/2022	<0.005				<0.005		<0.005

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	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
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
6/2/2016		<0.005	<0.005	<0.005	
7/26/2016		<0.005	<0.005	<0.005	
8/31/2016					<0.005
9/14/2016		<0.005	<0.005	<0.005	
11/2/2016		<0.005	<0.005		
11/4/2016				<0.005	
11/28/2016					<0.005
1/12/2017			<0.005	<0.005	
1/13/2017		<0.005			
2/22/2017					<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			
7/17/2017					<0.005
10/12/2017	<0.005				
10/16/2017	-0.000				<0.005
11/20/2017	<0.005				10.000
1/10/2018	<0.005				<0.00E
2/19/2018	<0.005			.0.005	<0.005
3/29/2018		<0.005	<0.005	<0.005	
4/3/2018	<0.005				
6/28/2018	<0.005				
8/6/2018					<0.005
8/7/2018	<0.005				
9/24/2018	<0.005				
2/25/2019					<0.005
3/4/2019		<0.005	<0.005	<0.005	
6/12/2019					<0.005
8/19/2019					<0.005

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/21/2019	0.00053 (J)				
10/8/2019					<0.005
10/9/2019	0.0012 (J)				
2/12/2020	0.00065 (J)	<0.005	<0.005	0.00043 (J)	
3/17/2020					<0.005
3/24/2020	0.00055 (J)		<0.005	0.0014 (J)	
3/25/2020		0.00058 (J)			
8/26/2020					<0.005
9/22/2020		<0.005	0.0011 (J)	<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				
3/2/2021			<0.005	<0.005	<0.005
3/3/2021		0.0013 (J)			
3/4/2021	<0.005				
8/20/2021					<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	
2/11/2022		<0.005			
8/30/2022			<0.005	<0.005	<0.005
8/31/2022	<0.005	<0.005			

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.005	0.00082 (J)				<0.005
6/2/2016	<0.005				0.035	<0.005	
7/25/2016			0.0008 (J)		0.0312		<0.005
7/26/2016	<0.005	<0.005				<0.005	
9/13/2016		<0.005	0.0009 (J)				
9/14/2016				<0.005			<0.005
9/15/2016	<0.005					<0.005	
9/19/2016					0.0275		
11/1/2016		<0.005			0.0255	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			0.0025 (J)	<0.005			
12/15/2016				<0.005			
1/10/2017	<0.005						
1/11/2017		<0.005				<0.005	<0.005
1/16/2017			0.0027 (J)	<0.005	0.0245		
2/21/2017					0.0272		
3/1/2017							<0.005
3/2/2017		<0.005	0.0022 (J)			<0.005	
3/3/2017				<0.005			
3/8/2017	<0.005						
4/26/2017	<0.005				0.0244	<0.005	<0.005
4/27/2017		<0.005	0.0018 (J)	.0.005			
4/28/2017				<0.005			
5/26/2017		-0.005	0.0002 (1)	<0.005			
6/27/2017		<0.005	0.0023 (J)	10.005		10.005	-0.005
6/28/2017	<0.00E			<0.005	0.0222	<0.005	<0.005
6/30/2017	<0.005		<0.005		0.0233 0.023		
3/27/2018 3/28/2018	<0.005		<0.005	<0.005	0.023	<0.005	<0.005
3/29/2018		<0.005		~ 0.003		~ 0.003	10.003
6/5/2018		<0.005					
6/6/2018		10.000	<0.005				
6/7/2018			-0.000	<0.005		<0.005	
6/8/2018	<0.005			0.000		0.000	<0.005
6/11/2018	0.000				0.023		0.000
10/1/2018	<0.005	<0.005	0.00059 (J)	<0.005		<0.005	<0.005
10/2/2018			(1)		0.022		
2/26/2019	<0.005				0.021		
2/27/2019		<0.005	0.00064 (J)	<0.005		<0.005	<0.005
3/28/2019		<0.005	0.00091 (J)				
3/29/2019	<0.005			<0.005			
4/1/2019					0.022	<0.005	<0.005
9/24/2019		<0.005	0.0013 (J)	<0.005			
9/25/2019	<0.005				0.016	<0.005	<0.005
2/10/2020		<0.005	0.0016 (J)				
2/11/2020				<0.005			<0.005
2/12/2020	<0.005				0.014	<0.005	
3/18/2020	<0.005		0.00087 (J)				
3/19/2020		<0.005		<0.005	0.014	<0.005	<0.005
9/23/2020		<0.005	0.0013 (J)	<0.005		<0.005	<0.005
9/24/2020					0.0064		
9/25/2020	<0.005						

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.005			<0.005		<0.005	<0.005
2/11/2021					0.0078		
2/12/2021		0.00086 (J)	0.0028 (J)				
3/1/2021					0.0061		
3/2/2021	<0.005						
3/3/2021		<0.005	0.003 (J)	<0.005		<0.005	<0.005
8/19/2021	<0.005	0.00055 (J)	0.0017 (J)		0.0052	<0.005	
8/27/2021				<0.005			<0.005
2/9/2022		0.00072 (J)	0.0023 (J)	<0.005		<0.005	<0.005
2/10/2022	<0.005						
2/11/2022					0.0038 (J)		
8/30/2022		<0.005		<0.005			
8/31/2022	<0.005		0.00085 (J)		0.004 (J)	<0.005	<0.005

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	0.0032	0.0016 (J)	0.0024 (J)			
6/9/2016					0.00042 (J)	0.00085 (J)	0.00052 (J)
8/1/2016	<0.005	0.003 (J)	0.0014 (J)	0.0026 (J)			
8/2/2016					<0.005	0.0008 (J)	0.0006 (J)
9/20/2016	<0.005	0.003 (J)	0.002 (J)	0.0026 (J)			
9/21/2016					<0.005	0.0008 (J)	0.0007 (J)
11/7/2016	<0.005	0.0025 (J)	0.0016 (J)	0.0025 (J)		0.001 (J)	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	0.0022 (J)	0.0017 (J)		<0.005	0.001 (J)	
1/19/2017				0.0024 (J)			<0.005
2/21/2017	<0.005	0.0022 (J)				0.0011 (J)	
2/22/2017				0.0023 (J)	<0.005		<0.005
2/23/2017			0.002 (J)				
5/3/2017		0.002 (J)					
5/5/2017					<0.005	0.0012 (J)	
5/8/2017	<0.005		0.0029 (J)	0.0023 (J)			<0.005
6/30/2017			0.0044 (J)	0.0022 (J)			
7/5/2017					<0.005		0.0003 (J)
7/7/2017						0.0012 (J)	
7/10/2017	<0.005	0.002 (J)					
3/29/2018			0.0495 (D)	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	<0.005	
6/11/2018							<0.005
6/12/2018				0.0025 (J)	<0.005	0.0011 (J)	
6/13/2018	<0.005	0.0017 (J)	0.092				
10/2/2018	<0.005	0.002 (J)	0.078	0.0023 (J)			<0.005
10/3/2018					<0.005	0.0013 (J)	
2/27/2019	<0.005	0.0017 (J)	0.035	0.0024 (J)	<0.005	0.00093 (J)	<0.005
4/1/2019			0.025	0.0023 (J)	<0.005		<0.005
4/2/2019	<0.005	0.0022 (J)				0.0011 (J)	
9/25/2019	<0.005	0.0033 (J)					<0.005
9/26/2019			0.014	0.0021 (J)	<0.005	0.00098 (J)	
2/13/2020	<0.005	0.0019 (J)	0.012	0.0026 (J)	<0.005	0.00092 (J)	<0.005
3/19/2020		0.0021 (J)			<0.005	0.00093 (J)	
3/20/2020	<0.005		0.014	0.0022 (J)			<0.005
9/24/2020	<0.005	0.0011 (J)	0.0076	0.0021 (J)	<0.005	0.00085 (J)	<0.005
2/10/2021	<0.005	0.0017 (J)	0.0048 (J)	0.0025 (J)			
2/11/2021					<0.005		
2/12/2021						<0.005	0.00094 (J)
3/2/2021		0.0021 (J)					
3/3/2021	<0.005		0.0042 (J)	0.0017 (J)	<0.005	0.001 (J)	<0.005
8/19/2021		0.0017 (J)					
8/20/2021	<0.005		0.0034 (J)	0.0027 (J)	<0.005	0.00097 (J)	<0.005
2/8/2022				0.0017 (J)	<0.005	0.00091 (J)	<0.005
2/10/2022	<0.005	0.0026 (J)	0.0051				
8/31/2022	<0.005	0.0026 (J)					
9/1/2022			0.0096	0.0015 (J)	<0.005	0.00071 (J)	<0.005

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.005	0.00061 (J)			
6/7/2016		<0.005			<0.005	0.0056	
7/27/2016		<0.005	<0.005	0.0004 (J)	<0.005		
7/28/2016						0.0032 (J)	
8/30/2016	0.0073 (J)						
9/16/2016	. ,	<0.005		0.0008 (J)			
9/19/2016			<0.005	. ,	<0.005	0.0047 (J)	
11/2/2016					<0.005	.,	
11/3/2016		<0.005	<0.005	<0.005		0.013	
11/14/2016	0.0115						
1/11/2017		<0.005	<0.005	<0.005			
1/13/2017					<0.005	0.011	
2/24/2017	0.0106						
3/1/2017	0.0100		<0.005	<0.005			
3/2/2017		<0.005	0.000	0.000			
3/6/2017		10.000			<0.005	0.011	
4/26/2017			<0.005	<0.005	<0.005	0.009 (J)	
5/2/2017		<0.005	10.003	10.003	10.003	0.003 (0)	
5/8/2017	0.0099 (J)	10.003					
6/28/2017	0.0099 (3)		<0.005	<0.005			
6/29/2017		<0.005	~0.003	~0.003	<0.005	0.0093 (J)	
7/11/2017	0.0006 (1)	~0.003			~ 0.003	0.0093 (3)	
	0.0096 (J)						
10/10/2017 10/11/2017	0.0036 (J)						<0.00E
							<0.005
11/20/2017							<0.005
1/11/2018							<0.005
2/20/2018		-0.005	-0.005	10.005			<0.005
3/28/2018		<0.005	<0.005	<0.005	-0.005	-0.005	
3/29/2018	-0.005				<0.005	<0.005	
4/2/2018	<0.005						40.005
4/3/2018						0.0041 (1)	<0.005
6/5/2018					<0.00E	0.0041 (J)	
6/6/2018			<0.00E		<0.005		
6/7/2018 6/11/2018		<0.005	<0.005	<0.005			
6/28/2018		<0.005		<0.005			<0.005
							<0.005
8/7/2018 9/19/2018	0.0036 (1)						0.005
9/24/2018	0.0036 (J)						<0.005
9/25/2018		<0.005	<0.00E	<0.005	<0.005	0.0044 (1)	0.005
3/5/2019		<0.005	<0.005	<0.005		0.0044 (J)	
3/6/2019		<0.005	<0.005	<0.005	<0.005	0.0039 (J)	
4/2/2019		<0.005	<0.005			0.0020 (1)	
		<0.005	-0.005	10.005	-0.005	0.0039 (J)	
4/3/2019	0.00003 (!)		<0.005	<0.005	<0.005		
8/20/2019	0.00092 (J)						0.00024 (1)
8/21/2019						0.0033 (!)	0.00034 (J)
9/24/2019		<0.00E			<0.00E	0.0032 (J)	
9/25/2019		<0.005	<0.00E	<0.00E	<0.005		
9/26/2019	0.001473		<0.005	<0.005			
10/8/2019	0.0014 (J)						40.005
10/9/2019		-0.005	10.005	10.005			<0.005
2/11/2020		<0.005	<0.005	<0.005			

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					<0.005	0.0081	0.00034 (J)
3/17/2020	0.0017 (J)						
3/24/2020		<0.005	<0.005	<0.005	<0.005	0.0061	
3/25/2020							0.00034 (J)
8/27/2020	0.0011 (J)						
9/22/2020	0.00097 (J)						
9/23/2020		<0.005	<0.005	<0.005			
9/24/2020					<0.005	0.0079	0.00053 (J)
2/9/2021			<0.005	<0.005	<0.005	0.009	
2/10/2021							0.00098 (J)
3/1/2021	0.001 (J)						
3/3/2021		<0.005	<0.005	<0.005	<0.005		
3/4/2021						0.0065	0.00071 (J)
8/19/2021	0.00099 (J)						
8/26/2021				<0.005			0.0011 (J)
8/27/2021		<0.005	<0.005		<0.005		
9/1/2021						0.0068	
2/8/2022	0.0013 (J)						0.0012 (J)
2/9/2022		<0.005	<0.005	<0.005	<0.005	0.0078	
8/30/2022		<0.005	<0.005	<0.005		0.0066	
8/31/2022	0.00096 (J)				<0.005		0.00085 (J)
	3/17/2020 3/24/2020 3/25/2020 8/27/2020 9/22/2020 9/23/2020 9/24/2020 2/9/2021 2/10/2021 3/1/2021 3/4/2021 8/26/2021 8/27/2021 9/1/2021 2/8/2022 2/9/2022 8/30/2022	2/12/2020 3/17/2020 3/17/2020 3/24/2020 3/25/2020 8/27/2020 0.0011 (J) 9/22/2020 9/24/2020 2/9/2021 2/10/2021 3/1/2021 3/4/2021 8/19/2021 8/27/2021 9/1/2021 8/27/2021 9/1/2021 2/8/2022 8/30/2022 8/30/2022	2/12/2020 3/17/2020 3/17/2020 3/24/2020 3/25/2020 8/27/2020 0.0011 (J) 9/22/2020 0.00097 (J) 9/23/2020 2/9/2021 2/10/2021 3/1/2021 0.001 (J) 3/3/2021 8/19/2021 0.00099 (J) 8/26/2021 8/27/2021 9/1/2021 2/8/2022 0.0013 (J) 2/9/2022 8/30/2022 0.0005	2/12/2020 3/17/2020 0.0017 (J) 3/24/2020 3/25/2020 8/27/2020 0.0011 (J) 9/22/2020 0.00097 (J) 9/23/2020 2/9/2021 2/10/2021 3/1/2021 0.001 (J) 3/3/2021 0.00099 (J) 8/27/2021 0.00099 (J) 8/27/2021 2/8/2022 0.0013 (J) 2/9/2022 2/9/2022 8/30/2022 0.0013 (J) 2/9/2022 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	2/12/2020 3/17/2020 0.0017 (J) 3/24/2020 <0.005	2/12/2020 <0.005	2/12/2020 -0.0017 (J) 3/17/2020 0.0017 (J) 3/24/2020 <0.005

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	
5/1/2007					0.0067	
9/11/2007	,				<0.005	
3/20/2008	3				<0.005	
8/27/2008	3				<0.005	
3/3/2009					<0.005	
11/18/200	9				<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	2				<0.005	
2/6/2013					<0.005	
8/12/2013	3				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	6				0.0027	
6/2/2016		0.00082 (J)	<0.005	<0.005		
7/26/2016	6	0.0012 (J)	<0.005	<0.005		
8/31/2016	6				0.0053 (J)	
9/14/2016	6	0.0006 (J)	<0.005	<0.005		
11/2/2016	6	<0.005	<0.005			
11/4/2016	6			<0.005		
11/28/201	16				0.0036 (J)	
1/12/2017	,		<0.005	<0.005		
1/13/2017	,	0.0029 (J)				
2/22/2017	,				0.0049 (J)	
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					0.0059 (J)	
6/27/2017	7		<0.005	<0.005		
6/29/2017	7	0.0005 (J)				
7/17/2017	7				0.0046 (J)	
10/12/201	7 <0.005					
10/16/201	17				0.0034 (J)	
11/20/201	7 <0.005					
1/10/2018	3 <0.005					
2/19/2018	3 <0.005				<0.005	
3/29/2018	3	<0.005	<0.005	<0.005		
4/3/2018	<0.005					
6/6/2018			<0.005			
6/7/2018		0.00058 (J)		<0.005		
6/28/2018	3 <0.005					
8/6/2018					0.003 (J)	
8/7/2018	<0.005					
9/24/2018						
9/26/2018		<0.005	<0.005	<0.005		
2/25/2019)				0.001 (J)	

3/4/2019 4/3/2019	YGWA-40 (bg)	YGWA-4I (bg) <0.005 0.00083 (J)	YGWA-5D (bg) <0.005 <0.005	YGWA-5I (bg) <0.005 <0.005	GWA-2 (bg)
6/12/2019					0.003 (J)
8/19/2019					0.0035 (J)
8/21/2019	<0.005				()
9/24/2019			<0.005	<0.005	
9/25/2019		<0.005			
10/8/2019					0.0039 (J)
10/9/2019	<0.005				
2/12/2020	<0.005	<0.005	0.00037 (J)	<0.005	
3/17/2020					0.003 (J)
3/24/2020	<0.005		0.00035 (J)	<0.005	
3/25/2020		0.00056 (J)			
8/26/2020					0.2 (O)
9/22/2020		<0.005	<0.005	<0.005	0.16 (O)
9/24/2020	<0.005				
2/8/2021			<0.005	<0.005	
2/9/2021		<0.005			
2/10/2021	<0.005				
3/2/2021			<0.005	<0.005	0.21 (O)
3/3/2021		<0.005			
3/4/2021	<0.005				
8/20/2021					0.074 (O)
8/26/2021		0.00042 (J)	<0.005	<0.005	
9/3/2021	<0.005				
2/8/2022	<0.005				0.072 (O)
2/10/2022			<0.005	<0.005	
2/11/2022		<0.005			
8/30/2022			<0.005	<0.005	0.075 (O)
8/31/2022	<0.005	<0.005			

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	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.321 (U)	0.42				0.896
6/2/2016	0.329 (U)				0.0652 (U)	2.51	
7/25/2016			1.83		3.01		2.28
7/26/2016	1.51	0.707 (U)				3.82	
9/13/2016		1.22	0.841				
9/14/2016				0.98 (U)			0.821 (U)
9/15/2016	1.04 (U)					4.24	
9/19/2016					0.871 (U)		
11/1/2016		0.805 (U)			0.307 (U)	3.92	0.585 (U)
11/2/2016	0.496 (U)						
11/4/2016			0.166 (U)	0.277 (U)			
12/15/2016				0.071 (U)			
1/10/2017	0.376 (U)						
1/11/2017		0.705 (U)				2.52	1.22
1/16/2017			0	0.44 (U)	0.284 (U)		
2/21/2017					0.503 (U)		
3/1/2017							0.877 (U)
3/2/2017		0.251 (U)	0.504 (U)			3.13	
3/3/2017				0.448 (U)			
3/8/2017	0.0745 (U)						
4/26/2017	0.282 (U)				0.204 (U)	2.35	0.672 (U)
4/27/2017		1.08	0.593 (U)				
4/28/2017				0.548 (U)			
5/26/2017				0 (U)			
6/27/2017		1.02 (U)	0.657 (U)				
6/28/2017				0.608 (U)		2.6	1.07 (U)
6/30/2017	0.994				0.738 (U)		
3/27/2018	0.189 (U)		0.39 (U)		0.31 (U)		
3/28/2018				0.412 (U)		3	0.65 (U)
3/29/2018		0.503 (U)					
6/5/2018		0.771 (U)					
6/6/2018			2.8				
6/7/2018				0.73 (U)		2.79	
6/8/2018	0.218 (U)						1.89
6/11/2018					0.608 (U)		
10/1/2018	1.24	0.783 (U)	1.06 (U)	0.756 (U)		3.14	1.58
10/2/2018					0.97 (U)		
2/26/2019	0.202 (U)				0.524 (U)		
2/27/2019		1.21 (U)	0.637 (U)	0.635 (U)		3.79	3.67
3/28/2019		1.13 (U)	0.125 (U)				
3/29/2019	0 (U)			0.224 (U)			
4/1/2019					1.02 (U)	4.33	2.28
9/24/2019		1.22 (U)	0.949 (U)	0.429 (U)			
9/25/2019	0.707 (U)				1.02 (U)	4.2	1.6
2/10/2020		1.41	1.25 (U)				
2/11/2020				0.817 (U)		3.87	1.85
2/12/2020	1.07 (U)				0.301 (U)		
3/18/2020	0.207 (U)		0.458 (U)				
3/19/2020		1.1		0.715 (U)	1	3.96	2.2
9/23/2020		1.35 (U)	0.00884 (U)	0.565 (U)		4.14	1.14 (U)
9/24/2020					0.684 (U)		
9/25/2020	0.603 (U)						

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/13/2022 3:44 PM

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	0.353 (U)			1.04 (U)		3.65	2.46
2/11/2021					0.678 (U)		
2/12/2021		0.366 (U)	0.458 (U)				
3/1/2021					0.412 (U)		
3/2/2021	0.71 (U)						
3/3/2021		0.492 (U)	0.105 (U)	0.459 (U)		3.58	2.03
8/19/2021	0.786 (U)	1.17 (U)	0.0732 (U)		0.234 (U)	3.53	
8/27/2021				0.409 (U)			1.34
2/9/2022		1.19	0.422 (U)	0.894 (U)		3.28	1.91
2/10/2022	0 (U)				0.268 (U)		
8/30/2022		0.827		0.699 (U)			
8/31/2022	0.421 (U)		0.49 (U)		0.506 (U)	2.12	1.33

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	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	6.68 (o)	0.677	1.81	0.257 (U)			
6/9/2016					0.194 (U)	0.715	0.523
8/1/2016	0.606 (U)	0.457 (U)	3.79	0.453 (U)			
8/2/2016					0.331 (U)	0.526 (U)	1.25
9/20/2016	0.565 (U)	0.555 (U)	3.12	1.27			
9/21/2016					0.335 (U)	0.176 (U)	1.21 (U)
11/7/2016	0.773 (U)	0.647 (U)	2.66	0.877 (U)		0.609 (U)	1.16
11/8/2016					0.245 (U)		
1/18/2017	0.263 (U)	0.6 (U)	3.44		0.261 (U)	0.0752 (U)	
1/19/2017				0.764 (U)			0.933 (U)
2/21/2017	1.06 (U)	1.11 (U)				0.404 (U)	
2/22/2017				1.26 (U)	0.516 (U)		1.45 (U)
2/23/2017			4.73				
5/3/2017		0.654 (U)					
5/5/2017					0.713 (U)	0.868 (U)	
5/8/2017	0.291 (U)		3.87	0.789 (U)			0.21 (U)
6/30/2017			2.85	0.592 (U)			
7/5/2017					0.292 (U)		0.62 (U)
7/7/2017						1.29	
7/10/2017	0.912	0.649 (U)					
3/29/2018			1.41	0.916 (U)			1.37
3/30/2018	0.23 (U)	0.501 (U)			0.948 (U)	0.195 (U)	
6/11/2018							1.27 (U)
6/12/2018				0.666 (U)	0.869 (U)	1.02 (U)	
6/13/2018	0.427 (U)	1.09 (U)	3.69				
10/2/2018	1.41 (U)	0.747 (U)	4.5	0.774 (U)			0.442 (U)
10/3/2018					0.864 (U)	0.713 (U)	
2/27/2019	0.614 (U)	1.27	4.69	1.19	0.947 (U)	0.543 (U)	0.902 (U)
4/1/2019			5	0.777 (U)	0.162 (U)		0.584 (U)
4/2/2019	0.84 (U)	0.708 (U)				0.521 (U)	
9/25/2019	1.01 (U)	1.18 (U)					1.03 (U)
9/26/2019			3.37	1.01 (U)	1.06 (U)	1.16	
2/13/2020	1.86	0.178 (U)	4.48	0.961 (U)	1.12 (U)	1.04	0.806 (U)
3/19/2020		0.796 (U)			0.913 (U)	1.01 (U)	
3/20/2020	2.03		4.13	1.5			1.42
9/24/2020	<1.88	<1.88	3.42	1.49	<1.88	<1.88	<1.88
2/10/2021	0.513 (U)	0.41 (U)	2.47	0.663 (U)			
2/11/2021					1.07		
2/12/2021						0.419 (U)	0.826
3/2/2021		0.394 (U)					
3/3/2021	0.419 (U)		1.39	0.327 (U)	0.261 (U)	1.04	0.955
8/19/2021		0.531 (U)					
8/20/2021	0.596 (U)		1.36	0.542 (U)	0.656 (U)	1.34	0.314 (U)
2/8/2022				0.781 (U)	1.07 (U)	0.964	0.104 (U)
2/10/2022	0.149 (U)	0.431 (U)	1.23				
8/31/2022	0.179 (U)	0.602 (U)					
9/1/2022			2.93	0.147 (U)	0.602 (U)	0.127 (U)	0.445 (U)

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/13/2022 3:44 PM

	., ,	•	
Plant Yates	Client: Southern Company	Data: Yates Ash Pond 2	

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			0.0804 (U)	0.301 (U)			
6/7/2016		0.158 (U)			0.0191 (U)	0.347	
7/27/2016		0.0354 (U)	0.206 (U)	0.196 (U)	0.541 (U)		
7/28/2016						0.815 (U)	
8/30/2016	1.09						
9/16/2016		1.04		0.915 (U)			
9/19/2016			1.58		0.826 (U)	0.862 (U)	
11/2/2016					0.791 (U)		
11/3/2016		0.314 (U)	0.342 (U)	0.928 (U)		0.797 (U)	
12/15/2016	1 (U)	. ,	. ,				
1/11/2017	• •	0.34 (U)	0.365 (U)	0.502 (U)			
1/13/2017		- (-)	\ - \	(-)	0.296 (U)	0.72 (U)	
2/24/2017	0.504 (U)				1.200 (0)	(0)	
3/1/2017	J.007 (U)		0.395 (11)	0.202 (11)			
		0.746 (11)	0.395 (U)	0.202 (U)			
3/2/2017		0.746 (U)			0.540.415	0.540.410	
3/6/2017			0.507.40	0.004.41	0.518 (U)	0.518 (U)	
4/26/2017			0.507 (U)	0.264 (U)	0.282 (U)	1.13 (U)	
5/2/2017		0.111 (U)					
5/8/2017	0.455 (U)						
6/28/2017			0.892	0.636 (U)			
6/29/2017		0.576 (U)			1.12	0.841 (U)	
7/11/2017	0.471 (U)						
10/10/2017	0.649 (U)						
10/11/2017							0.586 (U)
11/20/2017							0.816 (U)
1/11/2018							0.841 (U)
2/20/2018							1.58
3/28/2018		0.438 (U)	0.92 (U)	0.56 (U)			
3/29/2018		. ,			1.73	1.91	
4/2/2018	0.512 (U)						
4/3/2018	- \-/						0.385 (U)
6/5/2018						1.39	(-/
6/6/2018					0.694 (U)		
6/7/2018			0.669 (11)		0.034 (0)		
		0.001 (11)	0.668 (U)	0.640 (11)			
6/11/2018		0.901 (U)		0.649 (U)			0.000 (1)
6/28/2018							0.283 (U)
8/7/2018	. === ##						0.332 (U)
9/19/2018	0.789 (U)						
9/24/2018							0.767 (U)
9/25/2018		0.68 (U)	0.141 (U)	0.574 (U)	0.772 (U)	1.62	
3/5/2019		0.272 (U)		0.474 (U)	0.84 (U)	0.985 (U)	
3/6/2019			0.714 (U)				
4/2/2019		0.847 (U)				1.42	
4/3/2019			0.385 (U)	0.429 (U)	1.01		
8/20/2019	2.44						
8/21/2019							1.01 (U)
9/24/2019						1.35	
9/25/2019		0.412 (U)			1.18 (U)		
9/26/2019		\- /	0.386 (U)	0.222 (U)	- \-/		
10/8/2019	1.72		(-)	(3)			1.02 (U)
2/11/2020	,_	0.461 (U)	1.48	0.597 (U)			(3)
2/11/2020		5. 4 61 (6)	1.40	0.007 (0)	1.11 (U)	1.61	0.45 (U)
£11£1£U£U					1.11 (0)	1.01	S.70 (O)

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/17/2020	1.22 (U)						
3/24/2020		0.534 (U)	0.632 (U)	0.262 (U)	1.88	1.24 (U)	
3/25/2020							0.377 (U)
8/27/2020	1.26 (U)						
9/22/2020	1.06 (U)						
9/23/2020		0.466 (U)	0.887 (U)	0.43 (U)			
9/24/2020					0.611 (U)	1.8	0.568 (U)
2/9/2021		0.529 (U)	0.314 (U)	0.259 (U)	0.284 (U)	1.24	
2/10/2021							0.518 (U)
3/1/2021	1.2						
3/3/2021		0.59 (U)	0.565 (U)	0.352 (U)	0.133 (U)	1.2	
3/4/2021							0.636 (U)
8/19/2021	1.07 (U)						
8/26/2021				0.686 (U)			0.674 (U)
8/27/2021		0.9 (U)	0.761 (U)		0.779 (U)		
9/1/2021						1.86	
2/8/2022	0.4 (U)						0.834
2/9/2022		0.133 (U)	0.571 (U)	0.0618 (U)	0.504 (U)	1.94	
8/30/2022		1.08	1.01	0.611 (U)		1.27	
8/31/2022	0.714 (U)				0.184 (U)		0.937

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/13/2022 3:44 PM

			Fianti	ates Chefft. 300ti	lerii Company
	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		0.721	5.11	0.614	
7/26/2016		1.26	6.92	1.47	
8/31/2016					1.2
9/14/2016		0.901 (U)	3.96	1.27	
11/2/2016		1.09 (U)	4.53		
11/4/2016				0.434 (U)	
11/28/2016					0.264 (U)
1/12/2017			4.43	0.202 (U)	
1/13/2017		1.19			
2/22/2017					1.06 (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					0.187 (U)
6/27/2017			2.8	0.77 (U)	
6/29/2017		1.35			
7/17/2017					1.42
10/12/2017	1.49				
10/16/2017					1.17
11/20/2017	0.918 (U)				
1/10/2018	1.05				
2/19/2018	2.05				1.58 (D)
3/29/2018		0.703 (U)	3.42	0.648 (U)	
4/3/2018	0.68 (U)				
6/6/2018			3.99		
6/7/2018		0.628 (U)		0.745 (U)	
6/28/2018	1.28				
8/6/2018					0.196 (U)
8/7/2018	1.16				
9/24/2018	0.965 (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)	
8/19/2019					1.39
8/21/2019	1.24 (U)				
9/24/2019			4.06	0.699 (U)	
9/25/2019		1.86			
10/8/2019	0.866 (U)				1.32 (U)
2/12/2020	1.83	1.25	4.02	0.913 (U)	
3/17/2020					1 (U)
3/24/2020	1.27 (U)		3.52		
3/25/2020		0.766 (U)			
8/26/2020					1.75
9/22/2020		0.795 (U)	2.98	0.428 (U)	0.688 (U)
9/24/2020	0.634 (U)				
2/8/2021			2.89	0.613 (U)	
2/9/2021		0.626 (U)			
2/10/2021	0.783 (U)				
3/2/2021			1.67	0.579 (U)	0.948 (U)
3/3/2021		1			
3/4/2021	0.818 (U)				

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/13/2022 3:44 PM

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/20/2021					0.528 (U)
8/26/2021		1.17 (U)	4.68	0.798 (U)	
9/3/2021	0.971 (U)				
2/8/2022	0.534 (U)				0.462 (U)
2/10/2022			3.33	0.375 (U)	
2/11/2022		0.996			
8/30/2022			5.34	0.72 (U)	1.52
8/31/2022	0.513 (U)	0.962			

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.12 (J)	<0.1				0.15 (J)
6/2/2016	<0.1				<0.1	0.62	
7/25/2016			0.06 (J)		0.06 (J)		0.14 (J)
7/26/2016	0.02 (J)	0.08 (J)				0.49	
9/13/2016		0.11 (J)	<0.1				
9/14/2016				0.08 (J)			0.18 (J)
9/15/2016	<0.1					0.54	
9/19/2016					<0.1		
11/1/2016		<0.1			<0.1	0.68	<0.1
11/2/2016	<0.1						
11/4/2016			<0.1	<0.1			
12/15/2016				0.06 (J)			
1/10/2017	<0.1						
1/11/2017		0.05 (J)				0.49	0.09 (J)
1/16/2017			<0.1	0.1 (J)	<0.1		
2/21/2017					<0.1		
3/1/2017							<0.1
3/2/2017		<0.1	<0.1			0.48	
3/3/2017				<0.1			
3/8/2017	<0.1						
4/26/2017	<0.1				<0.1	0.48	0.08 (J)
4/27/2017		0.04 (J)	0.01 (J)				
4/28/2017				0.06 (J)			
5/26/2017				0.09 (J)			
6/27/2017		<0.1	<0.1				
6/28/2017				0.11 (J)		0.47	0.12 (J)
6/30/2017	<0.1				<0.1		
10/3/2017		<0.1	<0.1	<0.1			
10/4/2017					<0.1	<0.1	<0.1
10/5/2017	<0.1						
3/27/2018	<0.1		<0.1		<0.1		
3/28/2018				0.31		0.56	<0.1
3/29/2018		<0.1					
6/5/2018		0.055 (J)					
6/6/2018			<0.1				
6/7/2018				0.11 (J)		0.48	
6/8/2018	<0.1						0.2 (J)
6/11/2018					<0.1		
10/1/2018	<0.1	<0.1	<0.1	<0.1		0.44	<0.1
10/2/2018					<0.1		
2/26/2019	<0.1				<0.1		2.42.43
2/27/2019		0.052 (J)	<0.1	0.12 (J)		0.53	0.13 (J)
3/28/2019		0.036 (J)	<0.1				
3/29/2019	<0.1			0.13 (J)	-0.1	0.45	0.171)
4/1/2019		0.000 (1)		0.004 (1)	<0.1	0.45	0.1 (J)
9/24/2019	-0.1	0.063 (J)	<0.1	0.081 (J)	-0.1	0.46	0.171)
9/25/2019	<0.1	0.004 (1)	-0.1		<0.1	0.46	0.1 (J)
2/10/2020		0.061 (J)	<0.1	0.075 (1)			0.004 ())
2/11/2020	-0.1			0.075 (J)	-0.1	0.4	0.094 (J)
2/12/2020	<0.1		-0.1		<0.1	0.4	
3/18/2020	<0.1	0.064 (1)	<0.1	0.003 (1)	-0.1	0.51	0.117.0
3/19/2020		0.064 (J)		0.093 (J)	<0.1	0.51	0.11 (J)

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/23/2020		0.058 (J)	<0.1	0.08 (J)		0.47	0.098 (J)
9/24/2020					<0.1		
9/25/2020	<0.1						
2/10/2021	<0.1			0.094 (J)		0.43	<0.1
2/11/2021					<0.1		
2/12/2021		0.068 (J)	<0.1				
3/1/2021					<0.1		
3/2/2021	<0.1						
3/3/2021		0.078 (J)	<0.1	0.085 (J)		0.44	0.1
8/19/2021	<0.1	0.074 (J)	<0.1		<0.1	0.47	
8/27/2021				0.12			0.12
2/9/2022		0.057 (J)	<0.1	0.094 (J)		0.43	0.097 (J)
2/10/2022	<0.1						
2/11/2022					<0.1		
8/30/2022		0.093 (J)		0.12			
8/31/2022	0.053 (J)		0.065 (J)		0.06 (J)	0.42	0.13

		YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
(6/8/2016	0.094 (J)	<0.1	0.086 (J)	0.12 (J)			
(6/9/2016					0.098 (J)	0.16 (J)	0.085 (J)
8	8/1/2016	0.08 (J)	0.24 (J)	0.14 (J)	0.22 (J)			
8	8/2/2016					0.38	0.5	0.09 (J)
9	9/20/2016	0.05 (J)	0.03 (J)	<0.1	0.32			
9	9/21/2016					0.08 (J)	0.25 (J)	0.09 (J)
	11/7/2016	<0.1 (*)	0.44	<0.1 (*)	<0.1 (*)		0.27 (J)	<0.1 (*)
	11/8/2016					0.24 (J)		
	1/18/2017	0.11 (J)	<0.1 (*)	<0.1 (*)		0.12 (J)	0.34	
	1/19/2017				0.25 (J)			<0.1 (*)
2	2/21/2017	<0.1 (*)	<0.1 (*)				0.27 (J)	
:	2/22/2017				0.21 (J)	<0.1 (*)		<0.1 (*)
	2/23/2017			<0.1 (*)				
	5/3/2017		0.16 (J)					
	5/5/2017		. ,			0.08 (J)	0.2 (J)	
	5/8/2017	0.08 (J)		0.07 (J)	0.19 (J)	. ,	. ,	0.06 (J)
	6/30/2017	(-)		<0.1 (*)	0.2 (J)			
	7/5/2017			()	(-)	0.11 (J)		0.08 (J)
	7/7/2017					0.11 (0)	0.18 (J)	0.00 (0)
	7/10/2017	<0.1 (*)	<0.1 (*)				0.10 (0)	
	10/5/2017	0 ()	0 ()			<0.1 (*)		<0.1 (*)
	10/6/2017				<0.1 (*)	-0.1 ()		3.1()
	10/9/2017			<0.1 (*)	10.1()		<0.1 (*)	
	10/10/2017	<0.1	<0.1	10.1()			10.1()	
	3/29/2018	-0.1	-0.1	<0.1	0.49			<0.1
	3/30/2018	<0.1	0.35	-0.1	0.43	<0.1	<0.1	
	6/11/2018	40.1	0.00			30.1	40.1	<0.1
	6/12/2018				0.037 (J)	<0.1	0.13 (J)	-0.1
	6/13/2018	0.088 (J)	0.044 (J)	<0.1	0.037 (0)	40.1	0.13 (0)	
	10/2/2018	<0.1	<0.1	<0.1	<0.1			<0.1
	10/3/2018	40.1	-0.1	-0.1	10.1	<0.1	0.31	30.1
	2/27/2019	<0.1	<0.1	<0.1	0.14 (J)	0.14 (J)	0.22 (J)	0.15 (J)
	4/1/2019	~0.1	~0.1	0.034 (J)	0.14 (3) 0.088 (J)	0.14 (J) 0.078 (J)	0.22 (3)	0.059 (J)
	4/2/2019	0.071 (J)	<0.1	0.034 (3)	0.088 (3)	0.078 (3)	0.14 (J)	0.059 (0)
	9/25/2019	0.071 (J) 0.064 (J)	<0.1				0.14 (3)	0.054 (J)
	9/26/2019	0.004 (3)	~0.1	0.14 (1)	0.22 (1)	0.20 (1)	0.39 (1)	0.034 (3)
	2/13/2020	-0.1	-0.1	0.14 (J)	0.22 (J)	0.29 (J)	0.28 (J)	0.053 (1)
		<0.1	<0.1	<0.1	0.11 (J)	0.14 (J)	0.18 (J)	0.053 (J)
	3/19/2020	0.06 (1)	<0.1	<0.1	0.007 (1)	0.07 (J)	0.16 (J)	0.057 (1)
	3/20/2020	0.06 (J)	-0.1	<0.1	0.097 (J)	0.072 (1)	0.16	0.057 (J)
	9/24/2020	0.053 (J)	<0.1	0.059 (J)	0.092 (J)	0.073 (J)	0.16	0.06 (J)
	2/10/2021	0.05 (J)	<0.1	0.055 (J)	0.084 (J)	0.066 (1)		
	2/11/2021					0.066 (J)	0.060 (1)	0.17
	2/12/2021		-0.1				0.069 (J)	0.17
	3/2/2021	0.05 (1)	<0.1	0.059 / 15	-0.1	0.072 (!)	0.12	0.056 (1)
	3/3/2021	0.05 (J)	-0.1	0.058 (J)	<0.1	0.072 (J)	0.13	0.056 (J)
	8/19/2021		<0.1					
	8/20/2021	<0.1		0.091 (J)	0.11	0.11	0.2	0.069 (J)
	2/8/2022				0.087 (J)	0.063 (J)	0.14	0.053 (J)
	2/10/2022	<0.1	<0.1	0.059 (J)				
	8/31/2022	0.082 (J)	0.076 (J)					
(9/1/2022			0.1	0.12	0.11	0.16	0.091 (J)

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.1	<0.1			
6/7/2016		<0.1			<0.1	<0.1	
7/27/2016		<0.1	<0.1	<0.1	<0.1		
7/28/2016						0.02 (J)	
8/30/2016	0.09 (J)						
9/16/2016		<0.1		<0.1			
9/19/2016			<0.1		<0.1	0.02 (J)	
11/2/2016					<0.1		
11/3/2016		<0.1	<0.1	<0.1		<0.1	
11/14/2016	0.18 (J)						
1/11/2017		<0.1	<0.1	<0.1			
1/13/2017					<0.1	<0.1	
2/24/2017	0.05 (J)						
3/1/2017			<0.1	<0.1			
3/2/2017		<0.1					
3/6/2017		-0.1			<0.1	<0.1	
4/26/2017			<0.1	<0.1	<0.1	0.04 (J)	
5/2/2017		<0.1	40. I	10.1	30.1	0.04 (0)	
5/8/2017	0.03 (1)	~0.1					
6/28/2017	0.03 (J)		<0.1	<0.1			
		<0.1	~ 0.1	<0.1	-0.1	-0.1	
6/29/2017	0.07 (1)	<0.1			<0.1	<0.1	
7/11/2017	0.07 (J)					.0.4	
10/3/2017		.0.4			.0.4	<0.1	
10/4/2017		<0.1		<0.1	<0.1		
10/5/2017			<0.1				
10/10/2017	<0.1						
10/11/2017							<0.1
11/20/2017							<0.1
1/11/2018							<0.1
2/20/2018							0.23
3/28/2018		<0.1	<0.1	<0.1			
3/29/2018					<0.1	<0.1	
4/2/2018	<0.1						
4/3/2018							<0.1
6/5/2018						0.13 (J)	
6/6/2018					<0.1		
6/7/2018			<0.1				
6/11/2018		<0.1		<0.1			
6/28/2018							<0.1
8/7/2018							0.048 (J)
9/19/2018	<0.1						
9/24/2018							<0.1
9/25/2018		<0.1	<0.1	<0.1	<0.1	0 (J)	
3/5/2019		<0.1		<0.1	<0.1	0.32	
3/6/2019			<0.1				
3/27/2019	0.081 (J)						<0.1
4/2/2019		<0.1				0.12 (J)	
4/3/2019			<0.1	<0.1	<0.1		
8/20/2019	<0.1						
8/21/2019							<0.1
9/24/2019						0.15 (J)	
9/25/2019		<0.1			<0.1		

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/26/2019			<0.1	<0.1			
10/8/2019	0.034 (J)						
10/9/2019							<0.1
2/11/2020		<0.1	<0.1	<0.1			
2/12/2020					<0.1	0.1 (J)	<0.1
3/17/2020	<0.1						
3/24/2020		<0.1	<0.1	<0.1	<0.1	0.081 (J)	
3/25/2020							<0.1
8/27/2020	<0.1						
9/22/2020	<0.1						
9/23/2020		<0.1	<0.1	<0.1			
9/24/2020					<0.1	0.079 (J)	<0.1
2/9/2021			<0.1	<0.1	<0.1	0.092 (J)	
2/10/2021							<0.1
3/1/2021	<0.1						
3/3/2021		<0.1	<0.1	<0.1	<0.1		
3/4/2021						0.091 (J)	<0.1
8/19/2021	<0.1						
8/26/2021				<0.1			0.063 (J)
8/27/2021		<0.1	<0.1		<0.1		
9/1/2021						0.11	
2/8/2022	<0.1						0.052 (J)
2/9/2022		<0.1	<0.1	<0.1	<0.1	0.1	
8/30/2022		<0.1	<0.1	<0.1		0.1	
8/31/2022	0.065 (J)				<0.1		0.065 (J)

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		<0.1	0.11 (J)	<0.1	
7/26/2016		<0.1	0.05 (J)	<0.1	
8/31/2016					0.14 (J)
9/14/2016		<0.1	0.04 (J)	<0.1	
11/2/2016		<0.1	<0.1		
11/4/2016				<0.1	
11/28/2016					0.12 (J)
1/12/2017			0.04 (J)	<0.1	``
1/13/2017		<0.1	,		
2/22/2017					0.09 (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				-0.1	0.05 (J)
6/27/2017			<0.1	<0.1	0.00 (0)
6/29/2017		<0.1	40. I	30.1	
7/17/2017		30.1			0.14 (J)
10/3/2017			<0.1	<0.1	0.14 (3)
10/5/2017		<0.1	~ 0.1	~ 0.1	
10/3/2017	<0.1	~ 0.1			
	~ 0.1				0.1271)
10/16/2017	-0.1				0.12 (J)
11/20/2017	<0.1				
1/10/2018	<0.1				0.47
2/19/2018	<0.1	.0.4		.0.4	0.17
3/29/2018	-0.4	<0.1	<0.1	<0.1	
4/3/2018	<0.1				
6/6/2018			0.15 (J)		
6/7/2018		<0.1		<0.1	
6/28/2018	<0.1				(n
8/6/2018					0.087 (J)
8/7/2018	<0.1				
9/24/2018	<0.1				
9/26/2018		<0.1	<0.1	<0.1	
2/25/2019					0.14 (J)
3/4/2019		<0.1	0.19 (J)	<0.1	
3/26/2019	<0.1				
4/3/2019		<0.1	0.047 (J)	<0.1	
6/12/2019					0.12 (J)
8/19/2019					<0.1
8/21/2019	<0.1				
9/24/2019			0.05 (J)	<0.1	
9/25/2019		<0.1			
10/8/2019					0.052 (J)
10/9/2019	<0.1				
2/12/2020	<0.1	<0.1	<0.1	<0.1	
3/17/2020					0.053 (J)
3/24/2020	<0.1		<0.1	<0.1	
3/25/2020		<0.1			
8/26/2020					0.068 (J)
9/22/2020		<0.1	0.056 (J)	<0.1	0.058 (J)
9/24/2020	<0.1				

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2021			0.055 (J)	<0.1	
2/9/2021		<0.1			
2/10/2021	<0.1				
3/2/2021			<0.1	<0.1	0.073 (J)
3/3/2021		<0.1			
3/4/2021	<0.1				
8/20/2021					0.06 (J)
8/26/2021		<0.1	0.061 (J)	<0.1	
9/3/2021	<0.1				
2/8/2022	<0.1				0.064 (J)
2/10/2022			0.055 (J)	<0.1	
2/11/2022		<0.1			
8/30/2022			0.085 (J)	<0.1	0.086 (J)
8/31/2022	0.05 (J)	0.061 (J)			

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.00056 (J)	<0.001				<0.001
6/2/2016	<0.001				<0.001	0.00056 (J)	
7/25/2016			<0.001		<0.001		<0.001
7/26/2016	<0.001	<0.001				0.0001 (J)	
9/13/2016		0.0001 (J)	<0.001				
9/14/2016				<0.001			<0.001
9/15/2016	<0.001					0.0002 (J)	
9/19/2016					<0.001		
11/1/2016		<0.001			<0.001	<0.001	<0.001
11/2/2016	<0.001						
11/4/2016			<0.001	<0.001			
12/15/2016				<0.001			
1/10/2017	<0.001						
1/11/2017		<0.001				<0.001	<0.001
1/16/2017			<0.001	<0.001	<0.001		
2/21/2017					<0.001		
3/1/2017							<0.001
3/2/2017		0.0001 (J)	<0.001			0.0002 (J)	
3/3/2017				<0.001			
3/8/2017	0.0001 (J)						
4/26/2017	<0.001				<0.001	<0.001	<0.001
4/27/2017		<0.001	<0.001				
4/28/2017				<0.001			
5/26/2017				<0.001			
6/27/2017		<0.001	<0.001				
6/28/2017				<0.001		<0.001	<0.001
6/30/2017	<0.001				<0.001		
3/27/2018	<0.001		<0.001		<0.001		
3/28/2018				<0.001		<0.001	<0.001
3/29/2018		<0.001					
2/26/2019	<0.001				<0.001		
2/27/2019		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2020		4.9E-05 (J)	<0.001				
2/11/2020		(.)		<0.001			<0.001
2/12/2020	<0.001			0.001	<0.001	<0.001	5.551
3/18/2020	<0.001		<0.001		0.001	0.001	
3/19/2020	0.001	0.00012 (J)	0.00	<0.001	<0.001	0.00017 (J)	<0.001
9/23/2020		<0.001	0.00021 (J)	0.0011 (J)	0.001	<0.001	0.00015 (J)
9/24/2020					<0.001		
9/25/2020	<0.001				0.001		
2/10/2021	4.8E-05 (J)			0.00015 (J)		<0.001	<0.001
2/11/2021	4.02-03 (0)			0.00015 (0)	4.6E-05 (J)	10.001	30.001
2/11/2021		4.4E-05 (J)	0.00038 (J)		4.02-03 (0)		
3/1/2021		4.42-03 (0)	0.00030 (0)		<0.001		
3/2/2021	<0.001				\0.001		
3/3/2021	-0.00 I	5.6E-05 (J)	<0.001	<0.001		<0.001	<0.001
8/19/2021	<0.001	<0.001	<0.001	VO.00 I	<0.001	<0.001	-0.001
8/27/2021	~U.UUT	~U.UU I	30.00 i	<0.001	₹0.00 i	50.00 i	<0.001
2/9/2022		<0.001	<0.001	<0.001		<0.001	<0.001
	<0.001	~U.UU I	~U.UU I	~U.UU I		~U.UU I	~U.UU I
2/10/2022	<0.001				<0.001		
2/11/2022		<0.001		<0.001	<0.001		
8/30/2022		<0.001		<0.001			

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Time Series

Constituent: Lead (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

YGWA-14S (bg) YGWA-1D (bg) YGWA-1I (bg) YGWA-2I (bg) YGWA-30I (bg) YGWA-3D (bg) YGWA-3I (bg) 8/31/2022 <0.001 <0.001 <0.001 <0.001 <0.001

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.001	<0.001	<0.001	<0.001 (*)			
6/9/2016					<0.001	<0.001	<0.001
8/1/2016	<0.001	<0.001	<0.001	<0.001			
8/2/2016					<0.001	<0.001	<0.001
9/20/2016	<0.001	<0.001	<0.001	0.0002 (J)			
9/21/2016					<0.001	<0.001	<0.001
11/7/2016	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
11/8/2016					<0.001		
1/18/2017	<0.001	<0.001	<0.001		<0.001	<0.001	
1/19/2017				<0.001			<0.001
2/21/2017	<0.001	<0.001				<0.001	
2/22/2017				<0.001	<0.001		<0.001
2/23/2017			<0.001				
5/3/2017		<0.001 (*)					
5/5/2017					<0.001	<0.001 (*)	
5/8/2017	<0.001		<0.001	<0.001			<0.001
6/30/2017			<0.001	<0.001			
7/5/2017					<0.001		<0.001
7/7/2017						7E-05 (J)	
7/10/2017	<0.001	8E-05 (J)					
3/29/2018			<0.001	<0.001			<0.001
3/30/2018	<0.001	<0.001			<0.001	<0.001	
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2020	<0.001	<0.001	<0.001	6.2E-05 (J)	<0.001	5.4E-05 (J)	<0.001
3/19/2020		0.0001 (J)			<0.001	7.5E-05 (J)	
3/20/2020	5.9E-05 (J)		<0.001	8.5E-05 (J)			<0.001
9/24/2020	<0.001	6.4E-05 (J)	<0.001	0.00037 (J)	<0.001	6.3E-05 (J)	9.5E-05 (J)
2/10/2021	5.1E-05 (J)	5E-05 (J)	<0.001	0.00072 (J)			
2/11/2021					<0.001		
2/12/2021						5.2E-05 (J)	6.6E-05 (J)
3/2/2021		5.6E-05 (J)					
3/3/2021	<0.001		<0.001	<0.001	<0.001	<0.001	0.00016 (J)
8/19/2021		<0.001					
8/20/2021	<0.001		<0.001	0.00096 (J)	<0.001	<0.001	<0.001
2/8/2022				<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001				
8/31/2022	<0.001	<0.001					
9/1/2022			<0.001	<0.001	<0.001	<0.001	<0.001

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.001	<0.001			
6/7/2016		<0.001			<0.001	<0.001	
7/27/2016		<0.001	<0.001	<0.001	<0.001		
7/28/2016						<0.001	
8/30/2016	<0.001						
9/16/2016		<0.001		<0.001			
9/19/2016			<0.001		<0.001	<0.001	
11/2/2016					0.0013 (J)		
11/3/2016		<0.001	<0.001	<0.001	, ,	<0.001	
11/14/2016	<0.001						
1/11/2017		<0.001	<0.001	<0.001			
1/13/2017					<0.001	<0.001	
2/24/2017	<0.001						
3/1/2017			<0.001	<0.001			
3/2/2017		8E-05 (J)					
3/6/2017		02 00 (0)			<0.001	<0.001	
4/26/2017			<0.001	<0.001	<0.001	<0.001	
5/2/2017		<0.001	-0.001	-0.001	10.001	10.001	
5/8/2017	<0.001	10.001					
6/28/2017	10.001		<0.001	0.0001 (J)			
6/29/2017		8E-05 (J)	40.001	0.0001 (0)	<0.001	<0.001	
7/11/2017	<0.001	0L-03 (0)			10.001	10.001	
10/10/2017	<0.001						
10/10/2017	<0.001						0.0001 (J)
11/20/2017							<0.001
1/11/2018							0.0002 (J)
2/20/2018							<0.001
3/28/2018		<0.001	<0.001	<0.001			-0.00 i
3/29/2018		40.001	40.001	10.001	<0.001	<0.001	
4/2/2018	<0.001				~0.001	~0.001	
4/3/2018	~0.001						<0.001
6/28/2018							<0.001
8/7/2018							<0.001
9/19/2018	<0.001						NO.001
9/24/2018	~0.001						<0.001
3/5/2019		<0.001		<0.001	<0.001	<0.001	V.001
3/6/2019		40.001	<0.001	10.001	10.001	10.001	
4/2/2019		<0.001	40.001			<0.001	
4/3/2019		-0.001	<0.001	<0.001	<0.001	.0.001	
8/20/2019	<0.001		-0.001	·0.001	-0.001		
8/21/2019	\0.001						<0.001
9/24/2019						<0.001	-0.00 i
9/24/2019		<0.001			<0.001	-U.UU I	
9/25/2019		~U.UU I	<0.001	<0.001	~U.UU I		
10/9/2019			<0.001	<0.001			<0.001
2/11/2020		<0.001	<0.001	<0.001			-0.00 i
		~U.UU I	~U.UU I	~U.UU I	<0.001	<0.001	<0.001
2/12/2020		6 45 05 (1)	7.15.05.(1)	E 4E 0E (I)			<0.001
3/24/2020		6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)	0.00011 (J)	<0.001	5.15.05.(1)
3/25/2020	<0.001						5.1E-05 (J)
8/27/2020							
9/22/2020 9/23/2020	<0.001	4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)			
312312020		+. IL-03 (J)	JL-03 (J)	3.7L=03 (J)			

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/24/2020					9.2E-05 (J)	4.6E-05 (J)	<0.001
2/9/2021			5E-05 (J)	9.4E-05 (J)	6.3E-05 (J)	<0.001	
2/10/2021							<0.001
3/1/2021	<0.001						
3/3/2021		<0.001	<0.001	7.6E-05 (J)	4.5E-05 (J)		
3/4/2021						<0.001	<0.001
8/19/2021	<0.001						
8/26/2021				<0.001			<0.001
8/27/2021		<0.001	<0.001		<0.001		
9/1/2021						<0.001	
2/8/2022	<0.001						<0.001
2/9/2022		<0.001	<0.001	<0.001	<0.001	<0.001	
8/30/2022		<0.001	<0.001	<0.001		<0.001	
8/31/2022	<0.001				<0.001		<0.001

Constituent: Lead (mg/L) Analysis Run 10/13/2022 3:44 PM

0011011140	2000 (g/2)	,a., o.oa		O
Plant Yates	Client: Souther	n Company	Data: Yates	Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
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
6/2/2016		<0.001	<0.001	<0.001	
7/26/2016		<0.001	<0.001	<0.001	
8/31/2016					<0.001
9/14/2016		<0.001	<0.001	<0.001	
11/2/2016		<0.001	<0.001		
11/4/2016				<0.001	
11/28/2016					<0.001
1/12/2017			<0.001	<0.001	
1/13/2017		<0.001			
2/22/2017					<0.001
3/6/2017		<0.001			5.55
3/7/2017		40.001	0.0001 (J)	7E-05 (J)	
5/1/2017		<0.001	<0.001	72-03 (3)	
		<0.001	<0.001	-0.001	
5/2/2017				<0.001	0.004
5/8/2017			-0.004	10.001	<0.001
6/27/2017			<0.001	<0.001	
6/29/2017		<0.001			
7/17/2017					<0.001
10/12/2017	9E-05 (J)				
10/16/2017					<0.001
11/20/2017	<0.001				
1/10/2018	<0.001				
2/19/2018	<0.001				<0.001
3/29/2018		<0.001	<0.001	<0.001	
4/3/2018	<0.001				
6/28/2018	<0.001				
8/6/2018					<0.001
8/7/2018	<0.001				
9/24/2018	<0.001				
2/25/2019					<0.001
3/4/2019		<0.001	<0.001	<0.001	
4/3/2019		<0.001	<0.001	<0.001	
		-0.001	-0.007	-0.001	<0.001
6/12/2019					<0.001

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/19/2019					<0.001
8/21/2019	<0.001				
9/24/2019			<0.001	9E-05 (J)	
9/25/2019		<0.001			
10/8/2019					<0.001
10/9/2019	<0.001				
2/12/2020	<0.001	<0.001	<0.001	<0.001	
3/17/2020					<0.001
3/24/2020	<0.001		5.4E-05 (J)	6.8E-05 (J)	
3/25/2020		<0.001			
8/26/2020					<0.001
9/22/2020		<0.001	4.5E-05 (J)	4.2E-05 (J)	0.0001 (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				
3/2/2021			5.1E-05 (J)	9.2E-05 (J)	<0.001
3/3/2021		<0.001			
3/4/2021	<0.001				
8/20/2021					<0.001
8/26/2021		<0.001	<0.001	<0.001	
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	<0.001
8/31/2022	<0.001	<0.001			

6/1/2016	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016	-0.0 2	0.015	<0.03		<0.03	0.010	0.01
6/2/2016	<0.03		0.002 (1)		<0.03	0.018	0.0122 (1)
7/25/2016	-0.0 2	0.0135 (1)	0.002 (J)		<0.03	0.0221 / 1)	0.0132 (J)
7/26/2016	<0.03	0.0135 (J)	0.00			0.0221 (J)	
9/13/2016		0.0112 (J)	<0.03	0.004 (1)			0.010 / 1)
9/14/2016				0.004 (J)			0.012 (J)
9/15/2016	<0.03					0.0197 (J)	
9/19/2016					<0.03		
11/1/2016		0.0163 (J)			<0.03	0.0194 (J)	0.0115 (J)
11/2/2016	<0.03						
11/4/2016			<0.03	<0.03			
12/15/2016				0.0026 (J)			
1/10/2017	<0.03						
1/11/2017		0.0166 (J)				0.0177 (J)	0.0085 (J)
1/16/2017			0.0023 (J)	0.0023 (J)	<0.03		
2/21/2017					<0.03		
3/1/2017							0.0114 (J)
3/2/2017		0.0159 (J)	0.0025 (J)			0.0185 (J)	
3/3/2017				0.0013 (J)			
3/8/2017	<0.03						
4/26/2017	<0.03				<0.03	0.0183 (J)	0.0092 (J)
4/27/2017		0.0137 (J)	0.0027 (J)				
4/28/2017				0.0031 (J)			
5/26/2017				0.0038 (J)			
6/27/2017		0.0094 (J)	0.0024 (J)				
6/28/2017				0.0026 (J)		0.0173 (J)	0.0085 (J)
6/30/2017	<0.03				<0.03		
3/27/2018	<0.03		0.0023 (J)		0.0011 (J)		
3/28/2018				0.0025 (J)		0.02 (J)	0.013 (J)
3/29/2018		0.0078 (J)					
6/5/2018		0.0079 (J)					
6/6/2018			0.0024 (J)				
6/7/2018				0.0017 (J)		0.02 (J)	
6/8/2018	<0.03						0.012 (J)
6/11/2018					0.0012 (J)		
10/1/2018	<0.03	0.0053 (J)	0.0023 (J)	<0.03		0.02 (J)	0.011 (J)
10/2/2018					<0.03		
2/26/2019	<0.03				0.0011 (J)		
2/27/2019		0.0093 (J)	0.0023 (J)	0.0011 (J)		0.021 (J)	0.014 (J)
3/28/2019		0.013 (J)	0.0022 (J)				
3/29/2019	<0.03			0.0016 (J)			
4/1/2019					0.001 (J)	0.021 (J)	0.013 (J)
9/24/2019		0.0046 (J)	0.0023 (J)	0.0011 (J)			
9/25/2019	<0.03				0.0011 (J)	0.02 (J)	0.01 (J)
2/10/2020		0.011 (J)	0.0023 (J)				
2/11/2020				0.0012 (J)			0.013 (J)
2/12/2020	<0.03				0.0013 (J)	0.019 (J)	
3/18/2020	<0.03		0.0024 (J)				
3/19/2020		0.013 (J)		0.0022 (J)	0.0012 (J)	0.023 (J)	0.014 (J)
9/23/2020		0.014 (J)	0.0024 (J)	0.0016 (J)		0.023 (J)	0.013 (J)
9/24/2020					0.0011 (J)		
9/25/2020	<0.03						

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.03			0.0039 (J)		0.023 (J)	0.015 (J)
2/11/2021					0.0012 (J)		
2/12/2021		0.01 (J)	0.0025 (J)				
3/1/2021					0.0011 (J)		
3/2/2021	<0.03						
3/3/2021		0.012 (J)	0.0025 (J)	0.0016 (J)		0.024 (J)	0.017 (J)
8/19/2021	<0.03	0.013 (J)	0.0023 (J)		0.0012 (J)	0.023 (J)	
8/27/2021				0.0058 (J)			0.026 (J)
2/9/2022		0.013 (J)	0.0027 (J)	0.006 (J)		0.026 (J)	0.021 (J)
2/10/2022	<0.03						
2/11/2022					0.0014 (J)		
8/30/2022		0.013 (J)		0.0044 (J)			
8/31/2022	<0.03		<0.03		0.0012 (J)	0.021 (J)	0.022 (J)

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.007	<0.03	0.0067	<0.03			
6/9/2016					0.0073	<0.03	0.0075
8/1/2016	0.0068 (J)	<0.03	0.008 (J)	<0.03			
8/2/2016					0.0073 (J)	<0.03	0.0078 (J)
9/20/2016	0.0062 (J)	<0.03	0.0111 (J)	<0.03			
9/21/2016					0.0067 (J)	<0.03	0.0074 (J)
11/7/2016	0.0057 (J)	<0.03	0.0097 (J)	<0.03		<0.03	0.0057 (J)
11/8/2016					0.0072 (J)		
1/18/2017	0.0066 (J)	<0.03	0.01 (J)		0.0067 (J)	<0.03	
1/19/2017				<0.03			0.0055 (J)
2/21/2017	0.0067 (J)	<0.03				<0.03	
2/22/2017				<0.03	0.0064 (J)		0.0063 (J)
2/23/2017			0.0099 (J)				
5/3/2017		<0.03					
5/5/2017					0.007 (J)	<0.03	
5/8/2017	0.007 (J)		0.0086 (J)	<0.03			0.0066 (J)
6/30/2017			0.0108 (J)	<0.03			
7/5/2017					0.0072 (J)		0.0058 (J)
7/7/2017						<0.03	
7/10/2017	0.0064 (J)	<0.03					
3/29/2018			0.011 (J)	<0.03			0.0049 (J)
3/30/2018	0.0068 (J)	<0.03			0.007 (J)	<0.03	
6/11/2018							0.0064 (J)
6/12/2018				<0.03	0.0073 (J)	<0.03	
6/13/2018	0.0071 (J)	<0.03	0.014 (J)				
10/2/2018	0.0064 (J)	<0.03	0.012 (J)	<0.03			0.006 (J)
10/3/2018					0.0069 (J)	<0.03	
2/27/2019	0.0069 (J)	<0.03	0.0096 (J)	<0.03	0.0063 (J)	<0.03	0.0053 (J)
4/1/2019			0.0082 (J)	<0.03	0.0065 (J)		0.0052 (J)
4/2/2019	0.0064 (J)	<0.03				<0.03	
9/25/2019	0.0073 (J)	<0.03					0.0057 (J)
9/26/2019			0.0075 (J)	<0.03	0.0064 (J)	<0.03	
2/13/2020	0.0073 (J)	<0.03	0.0079 (J)	<0.03	0.0069 (J)	<0.03	0.0057 (J)
3/19/2020		<0.03			0.007 (J)	<0.03	
3/20/2020	0.0072 (J)		0.0091 (J)	<0.03			0.0051 (J)
9/24/2020	0.0074 (J)	<0.03	0.0075 (J)	<0.03	0.0065 (J)	<0.03	0.005 (J)
2/10/2021	0.0067 (J)	<0.03	0.0067 (J)	0.00081 (J)			
2/11/2021					0.007 (J)		
2/12/2021						0.0053 (J)	<0.03
3/2/2021		<0.03					
3/3/2021	0.0077 (J)		0.0066 (J)	<0.03	0.0063 (J)	<0.03	0.0054 (J)
8/19/2021		<0.03					
8/20/2021	0.0079 (J)		0.0066 (J)	0.0013 (J)	0.0072 (J)	<0.03	0.0056 (J)
2/8/2022				<0.03	0.0076 (J)	<0.03	0.0064 (J)
2/10/2022	0.0086 (J)	<0.03	0.0072 (J)				
8/31/2022	0.0074 (J)	<0.03					
9/1/2022			0.0069 (J)	<0.03	0.0066 (J)	<0.03	0.0051 (J)

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			0.0088	0.015			
6/7/2016		<0.03			<0.03	0.0055	
7/27/2016		<0.03	0.0087 (J)	0.0049 (J)	<0.03		
7/28/2016						0.0045 (J)	
8/30/2016	0.0061 (J)						
9/16/2016		<0.03		0.0031 (J)			
9/19/2016			0.0043 (J)		<0.03	0.0054 (J)	
11/2/2016					<0.03		
11/3/2016		<0.03	<0.03	0.0021 (J)		<0.03	
11/14/2016	0.0064 (J)						
1/11/2017		0.0035 (J)	0.0052 (J)	0.0025 (J)			
1/13/2017					<0.03	0.0062 (J)	
2/24/2017	0.0049 (J)						
3/1/2017			0.0053 (J)	0.0029 (J)			
3/2/2017		<0.03					
3/6/2017					<0.03	0.0059 (J)	
4/26/2017			0.0041 (J)	0.0019 (J)	<0.03	0.0054 (J)	
5/2/2017		<0.03					
5/8/2017	0.0053 (J)						
6/28/2017			0.0039 (J)	0.0016 (J)			
6/29/2017		<0.03			<0.03	0.0047 (J)	
7/11/2017	0.0051 (J)						
10/10/2017	0.0043 (J)						
10/11/2017							0.0018 (J)
11/20/2017							0.0018 (J)
1/11/2018							0.0019 (J)
2/20/2018							<0.03
3/28/2018		<0.03	0.0041 (J)	0.0024 (J)			
3/29/2018					<0.03	0.0062 (J)	
4/2/2018	0.0045 (J)						
4/3/2018							0.0022 (J)
6/5/2018						0.0061 (J)	
6/6/2018					<0.03		
6/7/2018			0.0032 (J)				
6/11/2018		<0.03		0.0014 (J)			
6/28/2018							0.0026 (J)
8/7/2018							0.0024 (J)
9/19/2018	0.0043 (J)						
9/24/2018							0.0022 (J)
9/25/2018		<0.03	0.0036 (J)	0.0016 (J)	<0.03	0.0062 (J)	
3/5/2019		<0.03		0.0031 (J)	<0.03	0.0053 (J)	
3/6/2019			0.0033 (J)				
4/2/2019		<0.03				0.0051 (J)	
4/3/2019			0.0035 (J)	0.0028 (J)	<0.03		
8/20/2019	0.0036 (J)						
8/21/2019							0.0035 (J)
9/24/2019						0.0068 (J)	
9/25/2019		<0.03			<0.03		
9/26/2019			0.0032 (J)	0.0029 (J)			
10/8/2019	0.0036 (J)						
10/9/2019							0.0036 (J)
2/11/2020		<0.03	0.0033 (J)	0.005 (J)			

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					<0.03	0.0065 (J)	0.0041 (J)
3/17/2020	0.0046 (J)						
3/24/2020		0.0034 (J)	0.0033 (J)	0.0035 (J)	<0.03	0.0064 (J)	
3/25/2020							0.0049 (J)
8/27/2020	0.0039 (J)						
9/22/2020	0.0036 (J)						
9/23/2020		<0.03	0.003 (J)	0.0022 (J)			
9/24/2020					<0.03	0.0069 (J)	0.0054 (J)
2/9/2021			0.0031 (J)	0.0019 (J)	<0.03	0.006 (J)	
2/10/2021							0.0071 (J)
3/1/2021	0.0037 (J)						
3/3/2021		<0.03	0.0034 (J)	0.0021 (J)	<0.03		
3/4/2021						0.0062 (J)	0.0084 (J)
8/19/2021	0.0038 (J)						
8/26/2021				0.0019 (J)			0.0082 (J)
8/27/2021		<0.03	0.0032 (J)		<0.03		
9/1/2021						0.0057 (J)	
2/8/2022	0.0039 (J)						0.008 (J)
2/9/2022		<0.03	0.0032 (J)	0.0015 (J)	0.00082 (J)	0.0061 (J)	
8/30/2022		<0.03	0.0036 (J)	0.0014 (J)		0.0079 (J)	
8/31/2022	0.0037 (J)				<0.03		0.0065 (J)

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		0.013	0.0049 (J)	<0.03	
7/26/2016		0.0123 (J)	0.0063 (J)	0.0027 (J)	
8/31/2016					<0.03
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	
11/28/2016					<0.03
1/12/2017			0.0054 (J)	0.0032 (J)	
1/13/2017		0.0121 (J)	. ,	, ,	
2/22/2017		. ,			<0.03
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				(-)	0.0014 (J)
6/27/2017			0.0018 (J)	0.0029 (J)	· · ·
6/29/2017		0.0145 (J)	(-)	(-)	
7/17/2017		(0)			<0.03
10/12/2017	<0.03				
10/16/2017					0.0016 (J)
11/20/2017	<0.03				· · · · · · · · · · · · · · · · · · ·
1/10/2018	<0.03				
2/19/2018	<0.03				<0.03
3/29/2018	10.00	0.014 (J)	0.0058 (J)	0.0034 (J)	10.00
4/3/2018	<0.03	0.014 (0)	0.0000 (0)	0.0004 (0)	
6/6/2018	-0.00		0.0068 (J)		
6/7/2018		0.013 (J)	0.0000 (0)	0.0032 (J)	
6/28/2018	<0.03	0.010 (0)		0.0002 (0)	
8/6/2018	10.00				<0.03
8/7/2018	<0.03				10.00
9/24/2018	<0.03				
9/26/2018	-0.00	0.014 (J)	0.0065 (J)	0.0032 (J)	
3/4/2019		0.014 (d) 0.015 (J)	0.0065 (J)	0.0032 (J)	
4/3/2019		0.014 (J)	0.000 (J)	0.0035 (J)	
8/19/2019		3.517 (0)	0.007 (0)	3.5555 (0)	0.0019 (J)
8/21/2019	<0.03				
9/24/2019	0.00		0.0065 (J)	0.0031 (J)	
9/25/2019		0.014 (J)	3.3333 (0)	3.000. (0)	
10/8/2019		(0)			0.0015 (J)
10/9/2019	<0.03				· · · · · · · · · · · · · · · · · · ·
2/12/2020	<0.03	0.011 (J)	0.0066 (J)	0.0032 (J)	
3/17/2020	-0.00	3.511 (0)	0.0000 (0)	3.5552 (0)	0.0017 (J)
3/24/2020	<0.03		0.0064 (J)	0.0033 (J)	
3/25/2020	-0.00	0.014 (J)	0.000+(0)	3.5555 (0)	
8/26/2020		J.U 17 (J)			0.0032 (J)
9/22/2020		0.013 (J)	0.0066 (J)	0.0034 (J)	0.0029 (J)
9/24/2020	<0.03	J.013 (J)	0.0000 (0)	J.005+ (J)	0.0020 (0)
2/8/2021	-0.03		0.0063 (J)	0.0032 (J)	
2/9/2021		0.011 (J)	0.0003 (3)	0.0032 (3)	
2/10/2021	<0.03	J.J.1 (J)			
3/2/2021	-0.03		0.0018 (J)	0.0031 (J)	0.0033 (J)
3/2/2021		0.012 (J)	0.0010 (J)	0.0031 (3)	0.0000 (0)
		U.U I∠ (J)			

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2021	<0.03				
8/20/2021					0.0028 (J)
8/26/2021		0.0094 (J)	0.0075 (J)	0.0032 (J)	
9/3/2021	<0.03				
2/8/2022	0.00076 (J)				0.0031 (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)	0.0025 (J)
8/31/2022	<0.03	0.013 (J)			

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.0002	<0.0002				<0.0002
6/2/2016	<0.0002				<0.0002	<0.0002	
7/25/2016			<0.0002		<0.0002		<0.0002
7/26/2016	<0.0002	<0.0002				<0.0002	
9/13/2016		<0.0002	<0.0002				
9/14/2016				<0.0002			<0.0002
9/15/2016	<0.0002					<0.0002	
9/19/2016					<0.0002		
11/1/2016		<0.0002			<0.0002	<0.0002	<0.0002
11/2/2016	<0.0002						
11/4/2016			<0.0002	<0.0002			
12/15/2016				<0.0002			
1/10/2017	<0.0002						
1/11/2017		<0.0002				<0.0002	<0.0002
1/16/2017			<0.0002	<0.0002	<0.0002		
2/21/2017					<0.0002		
3/1/2017							<0.0002
3/2/2017		<0.0002	<0.0002			<0.0002	
3/3/2017				<0.0002			
3/8/2017	<0.0002						
4/26/2017	<0.0002				<0.0002	<0.0002	<0.0002
4/27/2017		<0.0002	<0.0002				
4/28/2017				<0.0002			
5/26/2017				<0.0002			
6/27/2017		<0.0002	<0.0002				
6/28/2017				<0.0002		<0.0002	<0.0002
6/30/2017	<0.0002				<0.0002		
3/27/2018	<0.0002		<0.0002		<0.0002		
3/28/2018				<0.0002		<0.0002	<0.0002
3/29/2018		<0.0002					
2/26/2019	6.1E-05 (J)				6.8E-05 (J)		
2/27/2019		5.1E-05 (J)	5.4E-05 (J)	<0.0002		6.2E-05 (J)	6.1E-05 (J)
3/28/2019		4E-05 (J)	<0.0002				
3/29/2019	<0.0002			<0.0002			
4/1/2019					8.2E-05 (J)	9.6E-05 (J)	8.4E-05 (J)
9/24/2019		<0.0002	<0.0002	<0.0002			
9/25/2019	<0.0002				<0.0002	<0.0002	<0.0002
2/10/2020		<0.0002	<0.0002				
2/11/2020				<0.0002			<0.0002
2/12/2020	<0.0002				<0.0002	<0.0002	
2/10/2021	<0.0002			<0.0002		<0.0002	<0.0002
2/11/2021					<0.0002		
2/12/2021		<0.0002	<0.0002				
2/9/2022		<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
2/10/2022	<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	<0.0002

6/9/2016	YGWC-26I	YGWC-26S	YGWC-27I	VOWO 270	YGWC-28I	VOWO 200	VOMO 001
6/0/2016		200	1GVVC-2/1	YGWC-27S	1 GVVC-201	YGWC-28S	YGWC-29I
6/8/2016	<0.0002	<0.0002	<0.0002	<0.0002			
6/9/2016					<0.0002 (*)	<0.0002 (*)	<0.0002 (*)
8/1/2016	<0.0002	<0.0002	<0.0002	<0.0002			
8/2/2016					<0.0002	<0.0002	<0.0002
9/20/2016	<0.0002	<0.0002	<0.0002	<0.0002			
9/21/2016					<0.0002	<0.0002	<0.0002
11/7/2016	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
11/8/2016					<0.0002		
1/18/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
1/19/2017				<0.0002			<0.0002
2/21/2017	<0.0002	<0.0002				<0.0002	
2/22/2017				<0.0002	<0.0002		<0.0002
2/23/2017			<0.0002				
5/3/2017		<0.0002					
5/5/2017					<0.0002	<0.0002	
5/8/2017	<0.0002		<0.0002	<0.0002			<0.0002
6/30/2017			<0.0002 (*)	<0.0002 (*)			
7/5/2017					<0.0002		<0.0002
7/7/2017						<0.0002	
7/10/2017	<0.0002	<0.0002					
3/29/2018			<0.0002	<0.0002			<0.0002
3/30/2018	<0.0002	<0.0002			<0.0002	<0.0002	
2/27/2019	5.1E-05 (J)	4.9E-05 (J)	5.4E-05 (J)	4.9E-05 (J)	4.8E-05 (J)	5.2E-05 (J)	4.7E-05 (J)
4/1/2019			4.5E-05 (J)	4.1E-05 (J)	<0.0002		3.9E-05 (J)
4/2/2019	5.1E-05 (J)	6.6E-05 (J)				<0.0002	
9/25/2019	<0.0002	<0.0002					<0.0002
9/26/2019			<0.0002	<0.0002	<0.0002	<0.0002	
2/13/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/10/2021	<0.0002	<0.0002	<0.0002	<0.0002			
2/11/2021					<0.0002		
2/12/2021						<0.0002	<0.0002
2/8/2022				<0.0002	<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002	<0.0002				
8/31/2022	<0.0002	<0.0002					
9/1/2022			<0.0002	0.00019 (J)	<0.0002	<0.0002	<0.0002
	8/1/2016 8/2/2016 9/20/2016 9/20/2016 9/21/2016 11/7/2016 11/8/2016 1/18/2017 1/19/2017 2/21/2017 2/22/2017 2/23/2017 5/3/2017 5/3/2017 5/5/2017 7/5/2017 7/7/2017 7/10/2017 3/29/2018 3/30/2018 2/27/2019 4/1/2019 9/25/2019 9/26/2019 2/13/2020 2/10/2021 2/11/2021 2/8/2022 2/10/2022 8/31/2022	8/1/2016	8/1/2016	8/1/2016	8/1/2016 <0.0002	8/1/2016 <0.0002	8/1/2016 < 0.0002

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.0002	<0.0002			
6/7/2016		9.5E-05 (J)			9.6E-05 (J)	9.6E-05 (J)	
7/27/2016		<0.0002	<0.0002	<0.0002	<0.0002		
7/28/2016						<0.0002	
8/30/2016	<0.0002						
9/16/2016		<0.0002		<0.0002			
9/19/2016			<0.0002		<0.0002	<0.0002	
11/2/2016					<0.0002		
11/3/2016		<0.0002	<0.0002	<0.0002		<0.0002	
11/14/2016	<0.0002						
1/11/2017		<0.0002	<0.0002	<0.0002			
1/13/2017					<0.0002	<0.0002	
2/24/2017	<0.0002						
3/1/2017			<0.0002	<0.0002			
3/2/2017		<0.0002					
3/6/2017					<0.0002	<0.0002	
4/26/2017			<0.0002	<0.0002	<0.0002	<0.0002	
5/2/2017		<0.0002					
5/8/2017	<0.0002						
6/28/2017			<0.0002	<0.0002			
6/29/2017		<0.0002			<0.0002	<0.0002	
7/11/2017	<0.0002						
10/10/2017	<0.0002						
10/11/2017							<0.0002
11/20/2017							7E-05 (J)
1/11/2018							<0.0002
2/20/2018							<0.0002
3/28/2018		<0.0002	<0.0002	<0.0002			0.0002
3/29/2018		0.0002	0.0002	0.0002	<0.0002	<0.0002	
4/2/2018	<0.0002				0.0002	0.0002	
4/3/2018	0.0002						<0.0002
6/28/2018							<0.0002
8/7/2018							<0.0002
9/19/2018	5.3E-05 (J)						V.000Z
9/24/2018	3.3L-03 (0)						<0.0002
9/25/2018		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.002
3/5/2019		<0.0002	10.0002	<0.0002	<0.0002	<0.0002	
3/6/2019		-0.0002	<0.0002	-0.0002	-0.0002	-0.0002	
8/20/2019	<0.0002		0.0002				
8/21/2019	-0.0002						<0.0002
2/11/2020		<0.0002	<0.0002	<0.0002			-0.0002
2/11/2020		~ 0.000∠	~ 0.000∠	~U.UUUZ	<0.0002	<0.0002	<0.0002
	<0.0002				~U.UUUZ	~U.UUUZ	~U.UUUL
8/27/2020	<0.0002		<0.0003	<0.0003	<0.0003	<0.0003	
2/9/2021			<0.0002	<0.0002	<0.0002	<0.0002	<0.0003
2/10/2021		<0.0000	<0.0002	<0.0000	<0.0002		<0.0002
3/3/2021		<0.0002	<0.0002	<0.0002	<0.0002	<0.0000	40,0003
3/4/2021	-0.0000					<0.0002	<0.0002
8/19/2021	<0.0002			-0.0000			v0.0000
8/26/2021		.0.000		<0.0002	.0.005		<0.0002
8/27/2021		<0.0002	<0.0002		<0.0002		
9/1/2021	.0.005					<0.0002	0.0000
2/8/2022	<0.0002						<0.0002

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	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/9/2022		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/30/2022		<0.0002	<0.0002	<0.0002		<0.0002	
8/31/2022	<0.0002				<0.0002		<0.0002

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	
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)	
6/2/2016		<0.0002	<0.0002	<0.0002		
7/26/2016		<0.0002	<0.0002	<0.0002		
8/31/2016					<0.0002	
9/14/2016		<0.0002	<0.0002	<0.0002		
11/2/2016		<0.0002	<0.0002			
11/4/2016				<0.0002		
11/28/2016					<0.0002	
1/12/2017			<0.0002	<0.0002		
1/13/2017		<0.0002	3.300 <u>L</u>	5.5002		
2/22/2017		-0.000Z			<0.0002	
		<0.0002			~U.UUUZ	
3/6/2017		<0.0002	<0.0002	<0.0002		
3/7/2017		10.0000	<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				
7/17/2017					<0.0002	
10/12/2017	<0.0002					
10/16/2017					<0.0002	
11/20/2017	8E-05 (J)					
1/10/2018	<0.0002					
2/19/2018	<0.0002				<0.0002	
3/29/2018		<0.0002	<0.0002	<0.0002		
4/3/2018	<0.0002					
6/28/2018	3.6E-05 (J)					
8/6/2018	(-)				<0.0002	
8/7/2018	<0.0002					
9/24/2018	<0.0002					
9/26/2018	-0.0002	<0.0002	<0.0002	<0.0002		
		~ 0.000∠	~ 0.000∠	<0.000Z	7.45.05 (1)	
2/25/2019		10.0000	-0.0000	-0.0000	7.4E-05 (J)	
3/4/2019		<0.0002	<0.0002	<0.0002	.0.000	
6/12/2019					<0.0002	

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/19/2019					<0.0002
8/21/2019	<0.0002				
10/8/2019					<0.0002
2/12/2020	<0.0002	<0.0002	<0.0002	<0.0002	
5/6/2020					<0.0002
8/26/2020					<0.0002
9/22/2020					<0.0002
2/8/2021			<0.0002	<0.0002	
2/9/2021		<0.0002			
2/10/2021	<0.0002				
3/2/2021			<0.0002	<0.0002	<0.0002
3/3/2021		<0.0002			
3/4/2021	<0.0002				
8/20/2021					<0.0002
8/26/2021		<0.0002	<0.0002	<0.0002	
9/3/2021	0.00012 (J)				
2/8/2022	0.00013 (J)				<0.0002
2/10/2022			<0.0002	<0.0002	
2/11/2022		<0.0002			
8/30/2022			<0.0002	<0.0002	<0.0002
8/31/2022	0.00064	<0.0002			

0/1/0010	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016 6/2/2016	<0.01	0.014 (J)	0.012 (J)		<0.01	0.0003 (1)	0.0055 (J)
7/25/2016	\0.01		0.0098 (J)		<0.01	0.0093 (J)	0.0037 (1)
7/26/2016	<0.01	0.0132	0.0098 (3)		~0.01	0.0113	0.0037 (J)
9/13/2016	~0.01	0.0132	0.01 (J)			0.0113	
9/14/2016		0.0127	0.01 (3)	0.0039 (J)			0.0034 (J)
9/15/2016	<0.01			0.0039 (3)		0.0112	0.0034 (3)
	<0.01				-0.01	0.0112	
9/19/2016		0.0000 (1)			<0.01	0.0000 (1)	0.0005 (1)
11/1/2016	-0.01	0.0092 (J)			<0.01	0.0099 (J)	0.0025 (J)
11/2/2016	<0.01		0.01	0.0077 (1)			
11/4/2016			0.01	0.0077 (J)			
12/15/2016	-0.01			0.0066 (J)			
1/10/2017	<0.01	0.0003 (1)				0.0003 (1)	0.0022 (1)
1/11/2017		0.0093 (J)	0.0096 (1)	0.0056 (1)	-0.01	0.0093 (J)	0.0033 (J)
1/16/2017 2/21/2017			0.0086 (J)	0.0056 (J)	<0.01		
					<0.01		0.004471)
3/1/2017		0.0000 (1)	0.01			0.0103	0.0044 (J)
3/2/2017		0.0099 (J)	0.01	0.0040 (1)		0.0103	
3/3/2017 3/8/2017	<0.01			0.0049 (J)			
4/26/2017	<0.01				<0.01	0.01	0.0075 (J)
4/27/2017	~0.01	0.0103	0.0101		~0.01	0.01	0.0073 (3)
4/28/2017		0.0103	0.0101	0.004 (J)			
5/26/2017				0.004 (3) 0.0029 (J)			
6/27/2017		0.0097 (J)	0.0093 (J)	0.0023 (0)			
6/28/2017		0.0037 (0)	0.0033 (0)	0.0036 (J)		0.0102	0.008 (J)
6/30/2017	<0.01			0.0030 (0)	<0.01	0.0102	0.000 (0)
3/27/2018	<0.01		0.0074 (J)		<0.01		
3/28/2018	-0.01		0.0074 (0)	0.0038 (J)	-0.01	0.011	0.0025 (J)
3/29/2018		0.0076 (J)		0.0030 (0)		0.011	0.0023 (3)
6/5/2018		0.0070 (J) 0.0092 (J)					
6/6/2018		0.0002 (0)	0.0073 (J)				
6/7/2018			0.0070 (0)	0.004 (J)		0.011	
6/8/2018	<0.01			0.004 (0)		0.011	0.0041 (J)
6/11/2018	10.01				<0.01		0.0041 (0)
10/1/2018	<0.01	0.0085 (J)	0.0076 (J)	0.0042 (J)		0.012	0.0037 (J)
10/2/2018				(0)	<0.01		
2/26/2019	<0.01				<0.01		
2/27/2019		0.0087 (J)	0.0078 (J)	0.0041 (J)		0.011	0.0027 (J)
3/28/2019		0.0092 (J)	0.0082 (J)	. ,			,
3/29/2019	<0.01	. ,	. ,	0.0041 (J)			
4/1/2019				(-)	<0.01	0.012	0.0021 (J)
9/24/2019		0.0072 (J)	0.0074 (J)	0.0054 (J)			()
9/25/2019	<0.01	. ,	()	()	<0.01	0.012	0.0087 (J)
2/10/2020		0.0087 (J)	0.0062 (J)				,
2/11/2020		. ,	. ,	0.0057 (J)			0.003 (J)
2/12/2020	<0.01			. ,	<0.01	0.013	. ,
3/18/2020	<0.01		0.0056 (J)				
3/19/2020		0.0088 (J)	\-'\	0.0046 (J)	<0.01	0.013	0.0043 (J)
9/23/2020		0.008 (J)	0.0059 (J)	0.0071 (J)		0.012	0.01
9/24/2020					<0.01		
9/25/2020	<0.01						

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.01			0.0041 (J)		0.014	0.0038 (J)
2/11/2021					<0.01		
2/12/2021		0.008 (J)	0.0056 (J)				
3/1/2021					<0.01		
3/2/2021	<0.01						
3/3/2021		0.0088 (J)	0.0049 (J)	0.0074 (J)		0.013	0.0036 (J)
8/19/2021	<0.01	0.0083 (J)	0.005 (J)		<0.01	0.013	
8/27/2021				0.0048 (J)			0.0099 (J)
2/9/2022		0.0093 (J)	0.0055 (J)	0.0057 (J)		0.013	0.0087 (J)
2/10/2022	<0.01						
2/11/2022					<0.01		
8/30/2022		0.0094 (J)		0.0068 (J)			
8/31/2022	<0.01		0.0055 (J)		<0.01	0.011	0.0068 (J)

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.01	<0.01	0.0011 (J)	<0.01			
6/9/2016					0.0011 (J)	<0.01	<0.01
8/1/2016	<0.01	<0.01	0.0018 (J)	<0.01			
8/2/2016					0.0014 (J)	0.0006 (J)	<0.01
9/20/2016	<0.01	<0.01	<0.01	<0.01			
9/21/2016					<0.01	<0.01	<0.01
11/7/2016	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01
11/8/2016					<0.01		
1/18/2017	<0.01	<0.01	<0.01		<0.01	<0.01	
1/19/2017				<0.01			<0.01
2/21/2017	<0.01	<0.01				<0.01	
2/22/2017				<0.01	<0.01		<0.01
2/23/2017			<0.01				
5/3/2017		<0.01					
5/5/2017					0.0014 (J)	0.0007 (J)	
5/8/2017	<0.01		0.0011 (J)	<0.01			<0.01
6/30/2017			<0.01	<0.01			
7/5/2017					0.0014 (J)		<0.01
7/7/2017						<0.01	
7/10/2017	<0.01	<0.01					
3/29/2018			<0.01	<0.01			<0.01
3/30/2018	<0.01	<0.01			<0.01	<0.01	
6/11/2018							<0.01
6/12/2018				<0.01	<0.01	<0.01	
6/13/2018	<0.01	<0.01	<0.01				
10/2/2018	<0.01	<0.01	<0.01	<0.01			<0.01
10/3/2018					<0.01	<0.01	
2/27/2019	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4/1/2019			<0.01	<0.01	<0.01		<0.01
4/2/2019	<0.01	<0.01				<0.01	
9/25/2019	<0.01	<0.01					<0.01
9/26/2019			0.0013 (J)	<0.01	0.0013 (J)	<0.01	
2/13/2020	<0.01	<0.01	0.0014 (J)	<0.01	0.0013 (J)	<0.01	<0.01
3/19/2020		<0.01			0.0014 (J)	<0.01	
3/20/2020	<0.01		0.0014 (J)	<0.01			<0.01
9/24/2020	<0.01	<0.01	0.0015 (J)	<0.01	0.0012 (J)	0.00075 (J)	<0.01
2/10/2021	<0.01	<0.01	0.0016 (J)	<0.01			
2/11/2021					0.0012 (J)		
2/12/2021						<0.01	0.00083 (J)
3/2/2021		<0.01					
3/3/2021	<0.01		0.0017 (J)	<0.01	0.0011 (J)	0.00083 (J)	<0.01
8/19/2021		<0.01					
8/20/2021	<0.01		0.0042 (J)	<0.01	0.001 (J)	<0.01	<0.01
2/8/2022				<0.01	0.0011 (J)	0.00082 (J)	<0.01
2/10/2022	<0.01	<0.01	0.0018 (J)				
8/31/2022	<0.01	<0.01					
9/1/2022			0.0016 (J)	<0.01	0.001 (J)	<0.01	<0.01

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.01	<0.01			
6/7/2016		<0.01			<0.01	<0.01	
7/27/2016		<0.01	<0.01	<0.01	<0.01		
7/28/2016						<0.01	
8/30/2016	<0.01						
9/16/2016		<0.01		<0.01			
9/19/2016			<0.01		<0.01	<0.01	
11/2/2016					<0.01		
11/3/2016		<0.01	<0.01	<0.01		<0.01	
11/14/2016	<0.01						
1/11/2017		<0.01	<0.01	<0.01			
1/13/2017					<0.01	<0.01	
2/24/2017	<0.01						
3/1/2017			<0.01	<0.01			
3/2/2017		<0.01					
3/6/2017					<0.01	0.0007 (J)	
4/26/2017			<0.01	<0.01	<0.01	0.0008 (J)	
5/2/2017		<0.01				(,,	
5/8/2017	<0.01						
6/28/2017			<0.01	<0.01			
6/29/2017		<0.01			<0.01	<0.01	
7/11/2017	<0.01						
10/10/2017	<0.01						
10/11/2017	10.01						0.0094 (J)
11/20/2017							0.0081 (J)
1/11/2018							0.0074 (J)
2/20/2018							<0.01
3/28/2018		<0.01	<0.01	<0.01			40.01
3/29/2018		40.01	40.01	10.01	<0.01	<0.01	
4/2/2018	<0.01				~0.01	~0.01	
4/3/2018	~0.01						0.006 (J)
6/28/2018							0.005 (J)
8/7/2018							0.0045 (J)
9/19/2018	<0.01						0.0045 (3)
9/24/2018	~0.01						0.0035 (J)
3/5/2019		<0.01		<0.01	<0.01	<0.01	0.0000 (0)
3/6/2019		40.01	<0.01	10.01	10.01	40.01	
8/20/2019	<0.01		40.01				
8/21/2019	-0.01						0.0021 (J)
10/8/2019	<0.01						0.0021 (0)
10/9/2019	40.01						0.0018 (J)
2/11/2020		<0.01	<0.01	<0.01			0.0018 (3)
2/12/2020		10.01	10.01	10.01	<0.01	<0.01	0.0025 (J)
3/17/2020	<0.01				-0.01	-0.01	5.55 <u>2</u> 5 (6)
3/24/2020	~0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
3/25/2020		0.01	0.01	0.01	.0.01	.0.01	0.002 (J)
8/27/2020	<0.01						0.00 <u>E</u> (0)
9/22/2020	<0.01						
9/23/2020	~U.U I	<0.01	<0.01	<0.01			
9/24/2020		~U.UT	>U.U I	~U.U I	<0.01	<0.01	0.0016 (J)
2/9/2021			<0.01	<0.01	<0.01	<0.01	0.00 10 (3)
2/9/2021			~U.U I	~U.U I	-U.U I	~U.U I	0.0013 (J)
2/10/2021							5.55 (5)

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/1/2021	<0.01						
3/3/2021		<0.01	<0.01	<0.01	<0.01		
3/4/2021						<0.01	0.0014 (J)
8/19/2021	<0.01						
8/26/2021				<0.01			0.0027 (J)
8/27/2021		<0.01	<0.01		<0.01		
9/1/2021						<0.01	
2/8/2022	<0.01						0.0035 (J)
2/9/2022		<0.01	<0.01	<0.01	<0.01	<0.01	
8/30/2022		<0.01	<0.01	<0.01		<0.01	
8/31/2022	<0.01				<0.01		0.0036 (J)

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	
6/2/2016		<0.01	0.0035 (J)	<0.01	(- 0)	
7/26/2016		<0.01	0.0042 (J)	<0.01		
8/31/2016			(0)		<0.01	
9/14/2016		<0.01	0.0041 (J)	<0.01		
11/2/2016		<0.01	0.0041 (J)	10.01		
11/4/2016		~0.01	0.0039 (3)	<0.01		
				\0.01	-0.01	
11/28/201			0.0044 (1)	-0.01	<0.01	
1/12/2017		.0.04	0.0041 (J)	<0.01		
1/13/2017		<0.01				
2/22/2017					<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	7	<0.01				
7/17/2017	7				<0.01	
10/12/201	17 <0.01					
10/16/201	17				<0.01	
11/20/201	17 <0.01					
1/10/2018	3 <0.01					
2/19/2018					<0.01	
3/29/2018		<0.01	<0.01	<0.01		
4/3/2018						
6/28/2018						
8/6/2018					<0.01	
8/7/2018						
9/24/2018						
3/4/2019		<0.01	<0.01	<0.01		
		~ U.U1	\U.U1	~U.U1	<0.01	
8/19/2019					<0.01	
8/21/2019						
10/9/2019						
2/12/2020		<0.01	0.0011 (J)	<0.01		
3/24/2020			0.0011 (J)	<0.01		
3/25/2020		<0.01				
8/26/2020					<0.01	
9/22/2020)	<0.01	0.00099 (J)	<0.01		
9/24/2020	0.01					
2/8/2021			0.0011 (J)	<0.01		
2/9/2021		<0.01				
2/10/2021	1 <0.01					
3/2/2021			<0.01	<0.01		
3/3/2021		<0.01				
3/4/2021	<0.01					
8/20/2021					<0.01	
8/26/2021		<0.01	0.001 (J)	<0.01		
9/3/2021		-	(-/			
2/8/2022					<0.01	
2/10/2022			0.00096 (J)	<0.01	5.51	
2/11/2022		<0.01	0.00000 (0)	-0.0 i		
		~ U.U1	0.00080 / 1/	<0.01	<0.01	
8/30/2022	<u> </u>		0.00089 (J)	<0.01	<0.01	

Constituent: Molybdenum (mg/L) Analysis Run 10/13/2022 3:44 PM Plant Yates Client: Southern Company Data: Yates Ash Pond 2

YGWA-40 (bg) YGWA-41 (bg) YGWA-5D (bg) YGWA-5I (bg) GWA-2 (bg)

8/31/2022 <0.01 <0.01

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		7.46	6.33				7.72
6/2/2016	5.46				5.75	7.84	
7/25/2016			6.21		5.82		7.74
7/26/2016	5.45	7.43				7.88	
9/13/2016		7.44	6.16	7.41			
9/14/2016							7.65
9/15/2016	5.45					7.74	
9/19/2016					5.78 (D)		
11/1/2016		7.24			5.62	7.75	7.7
11/2/2016	5.41						
11/4/2016			6.29	7.12			
12/15/2016				7.24			
1/10/2017	5.37						
1/11/2017		7.3				7.66	7.53
1/16/2017			6.29	7.24	5.72		
2/21/2017					5.67		
3/1/2017							7.42
3/2/2017		7.23	6.28			7.68	
3/3/2017				7.22			
3/8/2017	5.41						
4/26/2017	5.02				5.56	7.45	7.4
4/27/2017	0.02	6.99	6.09		0.00	7.10	
4/28/2017		0.00	0.00	7.21			
5/26/2017				7.13			
6/27/2017		6.87	6.21	7.10			
6/28/2017		0.07	0.21	7.06		7.65	7.5
6/30/2017	5.39			7.00	5.72	7.03	7.3
10/3/2017	3.33	6.81	5.98	6.99	5.72		
10/4/2017		0.01	5.50	0.55	5.87	7.49	7.45
10/4/2017	5.49				3.67	7.49	7.40
3/27/2018	5.49		6.25		5.83		
3/28/2018	3.47		0.23	7.3	3.63	7.91	7.74
3/29/2018		7.38		7.3		7.91	7.74
6/5/2018		7.16					
6/6/2018		7.10	6.17				
6/7/2018			0.17	7.29		7.69	
6/8/2018	5.45			7.29		7.09	7.64
6/11/2018	5.45				5.60		7.04
10/1/2018	5.39	6.8	5.9	7.07	5.69	7.39	7.47
10/1/2018	5.39	0.6	5.9	7.07	F 20	7.39	7.47
	F 40				5.39		
2/26/2019	5.46	6.04	F.0	7.07	5.77	7.55	754
2/27/2019		6.84	5.8	7.27		7.55	7.54
3/28/2019	5.04	6.99	6.15	7.00			
3/29/2019	5.34			7.06	5.00	7.07	774
4/1/2019		7.07	0.00	7.04	5.62	7.87	7.74
9/24/2019		7.07	6.23	7.01			
9/25/2019	5.19	7.0	0.4		5.69	7.64	7.47
2/10/2020		7.2	6.1	7.00			7.00
2/11/2020	F 40			7.38	5.0	7.00	7.09
2/12/2020	5.48		0.40		5.8	7.83	
3/18/2020	5.38	7.00	6.19	7.00	•	7.05	7.04
3/19/2020		7.03		7.22	6	7.65	7.31

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/23/2020		7.15	6.01	7.22		7.57	7.37
9/24/2020					5.67		
9/25/2020	5.44						
2/10/2021	5.35			7.29		7.81	7.58
2/11/2021					5.73		
2/12/2021		7.14	6.21				
3/1/2021					5.78		
3/2/2021	5.49						
3/3/2021		7.2	5.38	7.92		8.39	8.23
8/19/2021	7.32	6.32	6.38			5.34	
8/27/2021				7.14			7.39
2/9/2022		7.12	6.24	5.89		7.97	7.66
2/10/2022	4.5						
2/11/2022					5.59		
8/30/2022		7.2		7.04			
8/31/2022	5.15		5.64		5.87	7.65	7.49

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	5.85	5.24	6.32	6.24			
6/9/2016					6.42	6.39	6.19
8/1/2016	5.83	5.17	6.34	6.12			
8/2/2016					6.43	6.35	6.17
9/20/2016	5.89	5.35	6.36	6.3			
9/21/2016					6.45	6.39	6.2
11/7/2016	5.91	5.35	6.3	6.25		6.36	6.1
11/8/2016					6.37		
1/18/2017	5.84	5.2	6.31		6.27	6.23	
1/19/2017				6.2			6.22
2/21/2017	5.79	5.14				6.42	
2/22/2017				6.14	6.35		6.12
2/23/2017			6.18				
5/3/2017		5.28					
5/5/2017					6.36	6.4	
5/8/2017	5.84		6.24	6.11			6.11
6/30/2017			6.21	6.17			
7/5/2017					6.4		6.17
7/7/2017						6.46	
7/10/2017	5.92	5.25				0.10	
10/5/2017	0.02	0.20			6.43		6.17
10/6/2017				6.13	0.40		0.17
10/9/2017			6.26	0.10		6.37	
10/10/2017	5.84	5.17	0.20			0.57	
3/29/2018	0.04	0.17	6.36	6.25			6.09
3/30/2018	6.19	5.19	0.50	0.23	6.39	6.35	0.00
6/11/2018	0.19	3.19			0.59	0.55	6.17
6/12/2018				6.22	6.42	6.47	0.17
6/13/2018	5.82	5.12	6.28	0.22	0.42	0.47	
10/2/2018	5.82	4.95	5.9	5.99			6.17
10/2/2018	3.01	4.95	5.9	3.99	6.21	6.01	0.17
2/27/2019	5.79	5	6.31	6.26	6.32	6.38	6.19
	5.79	5				0.36	
4/1/2019	F 07	E 12	6.43	6.4	6.3	6.7	6.03
4/2/2019	5.87 5.79	5.13				6.7	6.24
9/25/2019	5.79	5.24	6.2	6.22	6.42	6.47	6.21
9/26/2019	E 02	F 20	6.3	6.22	6.43	6.47	6.22
2/13/2020	5.93	5.29	6.4	6.31	6.49	6.53	6.32
3/19/2020	E 04	5.46	6 22	6 10	7.01	6.98	6 17
3/20/2020	5.94	E 46	6.32	6.18	6.41	6.53	6.17
9/24/2020	5.86	5.46	6.36	6.27	6.41	6.53	6.2
2/10/2021	5.96	5.18	6.29	6.21	6.57		
2/11/2021					6.57	6.6	0.04
2/12/2021		5.20				6.6	6.24
3/2/2021	5.00	5.38	6.42	0.05	6.51	0.01	0.07
3/3/2021	5.93	F 40	6.43	6.35	6.51	6.61	6.27
8/19/2021	5.70	5.12	0.47	0.40	0.00	0.00	0.07
8/20/2021	5.78		6.17	6.18	6.23	6.38	6.07
2/8/2022	5.04	5.04	0.00	6.22	6.34	6.3	5.88
2/10/2022	5.84	5.31	6.23				
8/31/2022	5.77	5.61					
9/1/2022			6.13	6.13	6.41	6.59	6.05

		YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/201	16			6.17	5.71			
6/7/201			5.62			5.77	6.1	
7/27/20			5.59	6.14	5.46	5.79		
7/28/20							6.12	
8/30/20		5.75						
9/16/20			5.58					
9/19/20				6.04	5.59	5.73	6.12	
11/2/20						5.67		
11/3/20			5.59	5.97	5.39		6.07	
11/14/2		5.59						
1/11/20			5.59	6.05	5.48			
1/13/20						5.79	6.41	
2/24/20		5.49						
3/1/201				5.94	5.41			
3/2/201			5.54					
3/6/201			0.01			5.63	6.34	
4/26/20				5.99	5.4	5.66	6.32	
5/2/201			5.47	3.55	J.7	3.00	3.02	
5/8/201		5.58	5.47					
6/28/20		3.36		6	5.36			
6/29/20			5.56	· ·	3.30	5.85	6.47	
7/11/20		5.58	5.50			3.63	0.47	
10/3/20		3.36					6.56	
10/3/20			5.57		5.32	5.83	0.50	
10/4/20			5.57	6.11	3.32	3.63		
10/3/20		5.49		0.11				
10/10/2		5.49						6.4
11/20/2								6.33
1/11/20								6.29
2/20/20			E E0	6.1	5.34			7.22
3/28/20			5.59	6.1	5.34	E 02	6.75	
3/29/20		6.2 (a)				5.93	6.75	
4/2/201		6.3 (o)						6.07
4/3/201							6.00	6.87
6/5/201						F 9.0	6.09	
6/6/201				F 00		5.86		
6/7/201			E E0	5.98	E 20			
6/11/20 6/28/20			5.58		5.28			6 10
								6.18
8/7/201		F 40						6.08
9/19/20		5.48						E 04
9/24/20			F F0	E 01	4.00	E 0.4	6.67	5.81
9/25/20			5.59	5.81	4.86	5.84	6.67	
3/5/201			5.48	F 00	5.26	6.07	7.22	
3/6/201		F 00		5.99				5.04
3/27/20		5.83	5.74				0.04	5.84
4/2/201			5.74	0.00	5.47	5.74	6.94	
4/3/201		5.50		6.29	5.47	5.71		
8/20/20		5.58						5.00
8/21/20							0.07	5.96
9/24/20			F 40			F.00	6.87	
9/25/20	119		5.49			5.86		

9/26/2019 6.04 5.2	2	
10/0/0010 5.50		
10/8/2019 5.59		
10/9/2019		5.81
2/11/2020 5.58 6.07 5.3	3	
2/12/2020	6	7.13 5.97
3/17/2020 5.57		
3/24/2020 5.57 5.98 5.3	33 5.86 6	6.35
3/25/2020		5.78
8/27/2020 4.88		
9/22/2020 5.46		
9/23/2020 5.58 6.01 5.2	29	
9/24/2020	5.8	6.7 5.7
2/9/2021 6.12 5.4	43 5.86 6	6.95
2/10/2021		5.8
3/1/2021 5.48		
3/3/2021 5.52 5.89 5.3	31 5.89	
3/4/2021	6	6.8 5.54
8/19/2021 5.5		
8/26/2021 4.4	4	6.91
8/27/2021 5.27 5.4	5.57	
9/1/2021	6	6.65
2/8/2022 5.4		5.78
2/9/2022 5.53 5.98 5.2	28 5.91 6	6.84
8/30/2022 4.68 5.82 5.1	18	6.58
8/31/2022 5.32	5.38	5.3

			Fidilt i	ales Client. South	iterii Company Data. Tates Ash Fond 2
	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
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
6/2/2016		6.36	7.67	5.75	
7/26/2016		6.22	7.66	5.72	
9/14/2016		6.23	7.6	5.74	
				5.74	
11/2/2016		6.08	7.35	F 04	
11/4/2016				5.61	0.00
11/28/2016					6.23
1/12/2017			7.49	5.71	
1/13/2017		6.19			
2/22/2017					6.21
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					6.12
6/27/2017			7.32	5.7	
6/29/2017		6.21			
7/17/2017					6.03
10/3/2017			7.48	5.79	
10/5/2017		6.16			
10/12/2017	5.43				
10/16/2017					6.12
11/20/2017	5.1				
1/10/2018	4.97				
2/19/2018	5.6				6.13
3/29/2018		6.09	7.02	5.63	
4/3/2018	5.84				
6/6/2018			7.43		
6/7/2018		6.12		5.63	
6/28/2018	5.24				
8/6/2018					6.01
8/7/2018	5.18				- -
9/24/2018	5.14				
9/26/2018	V. 14	5.84	7.13	5.63	
2/25/2019		J.0 1	7.10	3.03	6.51
		6 19	7.46	5 75	0.01
3/4/2019	5.3	6.18	7.46	5.75	
3/26/2019	5.3	6.42	7 11	F 62	
4/3/2019		6.43	7.11	5.63	
6/12/2019					6.3
8/19/2019					6.23

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/21/2019	5.26				
9/24/2019			6.93	5.6	
9/25/2019		6.2			
10/8/2019					6.28
10/9/2019	5.22				
2/12/2020	5.3	6.15	7.52	5.83	
3/17/2020					6.14
3/24/2020	5.29		7.34	5.81	
3/25/2020		6.26			
5/6/2020					6.24
8/26/2020					5.67
9/22/2020		5.8	7.19	5.99	5.78
9/24/2020	5.43				
2/8/2021				5.67	
2/9/2021		6.06			
2/10/2021	5.19				
3/2/2021			7.15	5.63	5.42
3/3/2021		6.21			
3/4/2021	5.23				
8/20/2021					5.86
8/26/2021		5.82	7.16	5.51	
9/3/2021	4.75				
2/8/2022	5.26				5.83
2/10/2022			6.99	5.14	
2/11/2022		5.95			
8/30/2022			7.4	5	5.39
8/31/2022	4.53	5.5			

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.005	<0.005				<0.005
6/2/2016	0.0011 (J)				<0.005	<0.005	
7/25/2016			<0.005		<0.005		<0.005
7/26/2016	0.0016 (J)	<0.005				<0.005	
9/13/2016		<0.005	<0.005				
9/14/2016				<0.005			<0.005
9/15/2016	0.0014 (J)					<0.005	
9/19/2016					<0.005		
11/1/2016		<0.005			<0.005	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			<0.005	<0.005			
12/15/2016				<0.005			
1/10/2017	0.0012 (J)						
1/11/2017	. ,	<0.005				<0.005	<0.005
1/16/2017			<0.005	<0.005	<0.005		
2/21/2017					<0.005		
3/1/2017					0.000		<0.005
3/2/2017		<0.005	<0.005			<0.005	
3/3/2017		-0.000	10.000	<0.005		-0.000	
3/8/2017	<0.005			-0.000			
4/26/2017	<0.005				<0.005	<0.005	<0.005
4/27/2017	10.003	<0.005	<0.005		10.000	10.000	-0.003
4/28/2017		10.003	-0.003	<0.005			
5/26/2017				<0.005			
6/27/2017		<0.005	<0.005	~0.003			
6/28/2017		~0.003	~0.003	<0.005		<0.005	<0.005
6/30/2017	<0.005			<0.005	<0.005	<0.005	0.005
3/27/2018	<0.005		<0.005		<0.005		
3/28/2018	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
		<0.005		<0.005		<0.005	0.005
3/29/2018 2/26/2019	<0.005	<0.005			<0.005		
2/27/2019	~0.003	<0.005	<0.005	<0.005	~ 0.003	<0.005	<0.005
3/28/2019		<0.005	<0.005	~0.003		~0.003	10.003
3/29/2019	0.0019 (J)	~ 0.003	~ 0.003	<0.005			
4/1/2019	0.0019 (3)			~0.003	<0.005	<0.005	<0.005
9/24/2019		<0.005	<0.005	<0.005	~0.003	~0.003	10.003
9/25/2019	<0.005	~ 0.003	~ 0.003	~0.003	<0.005	<0.005	<0.005
2/10/2020	<0.005	<0.00E	<0.005		<0.005	<0.005	0.005
2/10/2020		<0.005	-0.003	<0.005			<0.005
2/11/2020	<0.005			~U.UUJ	<0.005	<0.005	-0.000
			<0.005		-U.UU	-0.000	
3/18/2020 3/19/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		<0.005	<0.00E	<0.005	<0.005	<0.005	<0.005
9/23/2020		<0.005	<0.005	<0.005	<0.00E	<0.005	<0.005
9/24/2020	<0.00E				<0.005		
9/25/2020	<0.005			<0.005		<0.005	<0.005
2/10/2021	<0.005			~U.UUƏ	<0.00E	~U.UU3	~0.005
2/11/2021		<0.00E	<0.00E		<0.005		
2/12/2021		<0.005	<0.005		<0.00E		
3/1/2021	<0.00E				<0.005		
3/2/2021	<0.005	<0.00E	<0.00E	<0.00E		<0.00E	40.005
3/3/2021	<0.00E	<0.005	<0.005	<0.005	<0.00E	<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005		<0.005	<0.005	

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.005			<0.005
2/9/2022		<0.005	<0.005	<0.005		<0.005	<0.005
2/10/2022	0.0014 (J)						
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

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.0016	0.0003 (J)	<0.005	<0.005			
6/9/2016					<0.005	<0.005	<0.005
8/1/2016	0.0023 (J)	0.0014 (J)	<0.005	<0.005			
8/2/2016					<0.005	<0.005	<0.005
9/20/2016	0.0022 (J)	<0.005	<0.005	<0.005			
9/21/2016					<0.005	0.001 (J)	<0.005
11/7/2016	0.0017 (J)	<0.005	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	0.002 (J)	0.0012 (J)	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	0.0018 (J)	0.0014 (J)				<0.005	
2/22/2017				<0.005	0.0012 (J)		<0.005
2/23/2017			<0.005				
5/3/2017		<0.005					
5/5/2017					<0.005	<0.005	
5/8/2017	<0.005		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		<0.005
7/7/2017						<0.005	
7/10/2017	0.002 (J)	<0.005					
3/29/2018			<0.005	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	<0.005	
2/27/2019	0.002 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	0.0017 (J)	<0.005				<0.005	
9/25/2019	0.0019 (J)	<0.005					<0.005
9/26/2019			<0.005	<0.005	<0.005	<0.005	
2/13/2020	0.0019 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/19/2020		<0.005			<0.005	<0.005	
3/20/2020	0.0019 (J)		<0.005	<0.005			<0.005
9/24/2020	0.0031 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2021	0.0026 (J)	<0.005	<0.005	<0.005			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	0.0034 (J)		<0.005	<0.005	<0.005	<0.005	<0.005
8/19/2021		<0.005					
8/20/2021	0.0026 (J)		<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2022				<0.005	<0.005	<0.005	<0.005
2/10/2022	0.0042 (J)	<0.005	<0.005				
8/31/2022	0.0036 (J)	<0.005					
9/1/2022			<0.005	<0.005	<0.005	<0.005	<0.005

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.005	<0.005			
6/7/2016		0.001 (J)			<0.005	0.00048 (J)	
7/27/2016		0.0012 (J)	<0.005	<0.005	<0.005		
7/28/2016						<0.005	
8/30/2016	0.0017 (J)						
9/16/2016		0.0015 (J)		<0.005			
9/19/2016			<0.005		<0.005	0.0014 (J)	
11/2/2016					<0.005		
11/3/2016		0.0015 (J)	<0.005	<0.005		<0.005	
11/14/2016	<0.005	. ,					
1/11/2017		0.0014 (J)	<0.005	<0.005			
1/13/2017		. ,			<0.005	<0.005	
2/24/2017	0.0011 (J)						
3/1/2017			<0.005	<0.005			
3/2/2017		0.0017 (J)	0.000	0.000			
3/6/2017		0.0017 (0)			<0.005	<0.005	
4/26/2017			<0.005	<0.005	<0.005	<0.005	
5/2/2017		<0.005	3.000	5.000	5.000	3.000	
5/8/2017	<0.005	-0.000					
6/28/2017	-0.00J		<0.005	<0.005			
6/29/2017		<0.005	~0.003	~0.003	<0.005	<0.005	
7/11/2017	<0.005	~ 0.003			~ 0.003	~0.003	
10/10/2017							
	<0.005						<0.005
10/11/2017							<0.005
11/20/2017							<0.005
1/11/2018							<0.005
2/20/2018		-0.005	-0.005	-0.005			<0.005
3/28/2018		<0.005	<0.005	<0.005	.0.005	0.005	
3/29/2018					<0.005	<0.005	
4/2/2018	<0.005						0.005
4/3/2018							<0.005
6/5/2018						<0.005	
6/6/2018					<0.005		
6/7/2018			<0.005				
6/11/2018		<0.005		<0.005			
6/28/2018							<0.005
8/7/2018	.0.005						<0.005
9/19/2018	<0.005						2227
9/24/2018							0.0015 (J)
9/25/2018		<0.005	<0.005	<0.005	<0.005	<0.005	
3/5/2019		<0.005		<0.005	<0.005	<0.005	
3/6/2019			<0.005				
4/2/2019		<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						<0.005	
9/25/2019		<0.005			<0.005		
9/26/2019			<0.005	<0.005			
10/9/2019							<0.005
2/11/2020		<0.005	<0.005	<0.005			
2/12/2020					<0.005	<0.005	<0.005

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/24/2020		<0.005	<0.005	<0.005	<0.005	<0.005	
3/25/2020							<0.005
8/27/2020	<0.005						
9/23/2020		<0.005	<0.005	<0.005			
9/24/2020					<0.005	<0.005	<0.005
2/9/2021			<0.005	<0.005	<0.005	<0.005	
2/10/2021							<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						
8/26/2021				<0.005			<0.005
8/27/2021		<0.005	<0.005		<0.005		
9/1/2021						<0.005	
2/8/2022	<0.005						<0.005
2/9/2022		<0.005	<0.005	<0.005	<0.005	<0.005	
8/30/2022		<0.005	<0.005	<0.005		<0.005	
8/31/2022	<0.005				<0.005		<0.005

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
5/1/2007	, (bg)	(bg)	(bg)	(bg)	<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
6/2/2016		<0.005	<0.005	<0.005	
7/26/2016		0.0009 (J)	<0.005	0.0009 (J)	
8/31/2016		` ,		. ,	<0.005
9/14/2016		<0.005	<0.005	<0.005	
11/2/2016		<0.005	<0.005		
11/4/2016		3.000	3.000	<0.005	
11/28/2016				0.000	<0.005
1/12/2017			<0.005	<0.005	-0.000
1/13/2017		<0.005	-0.003	30.00J	
		~U.UU3			<0.005
2/22/2017		<0.00F			<0.005
3/6/2017		<0.005	<0.00E	<0.00E	
3/7/2017		.0.005	<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			
7/17/2017					<0.005
10/12/2017	<0.005				
10/16/2017					<0.005
11/20/2017	0.0042 (J)				
1/10/2018	0.0043 (J)				
2/19/2018	<0.005				<0.005
3/29/2018		<0.005	<0.005	<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)				
8/6/2018	. ,				<0.005
8/7/2018	0.0031 (J)				
9/24/2018	0.0026 (J)				
9/26/2018	1.0020 (0)	<0.005	<0.005	<0.005	
2/25/2019		5.555	0.000	5.550	<0.005
					5.555

YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
	<0.005	<0.005	<0.005	
	<0.005	<0.005	<0.005	
				<0.005
				<0.005
0.0024 (J)				
		<0.005	<0.005	
	<0.005			
				<0.005
0.0026 (J)				
0.002 (J)	<0.005	<0.005	<0.005	
				<0.005
0.002 (J)		<0.005	<0.005	
	<0.005			
				<0.005
	<0.005	<0.005	<0.005	<0.005
0.0016 (J)				
		<0.005	<0.005	
	<0.005			
<0.005				
		<0.005	<0.005	<0.005
	0.0019 (J)			
<0.005				
				<0.005
	<0.005	<0.005	<0.005	
<0.005				
0.0014 (J)				<0.005
		<0.005	<0.005	
	<0.005			
		<0.005	<0.005	<0.005
<0.005	<0.005			
	0.0024 (J) 0.0026 (J) 0.002 (J) 0.002 (J) 0.0016 (J) <0.005 <0.005 <0.005 0.0014 (J)	 <0.005 <0.005 <0.005 <0.005 <0.0026 (J) <0.002 (J) <0.005 <0.005 <0.005 <0.005 <0.0019 (J) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 	 <0.005	

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		5	4.2				12
6/2/2016	6.6				1.3	5.8	
7/25/2016			3.7		1.2		8.4
7/26/2016	6.1	5.4				6.7	
9/13/2016		2.9	5.2				
9/14/2016		2.0	0.2	9.4			8.6
9/15/2016	6.1			0		6	6.0
9/19/2016					1.2	Ū	
11/1/2016		3.9			1.3	4.9	8.9
11/2/2016	6.3	5.5			1.5	4.5	0.3
11/4/2016	0.0		5	13			
12/15/2016			3	1.8			
1/10/2017	5.9			1.0			
1/11/2017	5.9	3.7				4.5	8.6
1/16/2017		3.7	7.9	11	<1	4.5	6.0
			7.9	11			
2/21/2017					1.4		0.3
3/1/2017		4.6	7.4			4.4	9.3
3/2/2017		4.6	7.4	0.0		4.4	
3/3/2017	7			8.8			
3/8/2017	7						
4/26/2017	7	5.0	7.4		1.4	5.1	11
4/27/2017		5.2	7.4				
4/28/2017				10			
5/26/2017				12			
6/27/2017		5.9	6.4				10
6/28/2017	0.5			11		5.4	12
6/30/2017	6.5				<1		
10/3/2017		6.6	5.9	7.9			10
10/4/2017					1.4	6.2	12
10/5/2017	7.9						
6/5/2018		6.4					
6/6/2018			4.4				
6/7/2018				8.8		6.7	
6/8/2018	6.4						9.6
6/11/2018					1.1		
10/1/2018	6.8	5.6	4	9.1		7.1	9.1
10/2/2018					1		
3/28/2019		8	4.3	_			
3/29/2019	7.3			9			
4/1/2019					0.96 (J)	7.2	8.5
9/24/2019		5.3	4.3	9.1		_	
9/25/2019	6.6				0.81 (J)	7	13.8
3/18/2020	8.1		5.3				
3/19/2020		10		12.4	1.6	9	12.9
9/23/2020		8.1	3.4	11.8		6.9	16.8
9/24/2020					0.69 (J)		
9/25/2020	6.1						
3/1/2021					0.88 (J)		
3/2/2021	6						
3/3/2021		9	4.4	10.6		7	9.6
8/19/2021	6.7	8.9	4.9		1	7.5	
8/27/2021				16.7			18.2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		9.3	5.1	18		7.2	16
2/10/2022	6.2						
2/11/2022					2.8		
8/30/2022		10.2		20.1			
8/31/2022	5.8		4.8		1.1	6.9	13.9
8/31/2022	5.8		4.8		1.1	6.9	13.9

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	81	110	3.2	26			
6/9/2016					8.7	5.2	33
8/1/2016	75	96	3.6	27			
8/2/2016					7.5	4.5	32
9/20/2016	78	100	5.6	21			
9/21/2016					8	<1 (*)	32
11/7/2016	81	100	5.4	24		4.3	33
11/8/2016					8.3		
1/18/2017	95	100	3.5		8	2.7	
1/19/2017				25			32
2/21/2017	80	96				3	
2/22/2017				24	8.2		31
2/23/2017			4.9				
5/3/2017		100					
5/5/2017					<1 (*)	<1 (*)	
5/8/2017	84		3.9	23			32
6/30/2017			5	23			
7/5/2017					8.1		31
7/7/2017						2.7	
7/10/2017	84	100					
10/5/2017					8.6		31
10/6/2017				23			
10/9/2017			5.1			2.9	
10/10/2017	82	97					
6/11/2018							30.6
6/12/2018				18.1	8.2	2.9	
6/13/2018	76.5	93.3	6.1				
10/2/2018	83.9	99	6.1	20.2			30.8
10/3/2018					8	2.1	
4/1/2019			4.1	18.3	8.2		30.4
4/2/2019	77.6	94.5				2.4	
9/25/2019	80.1	97					30
9/26/2019			4.2	18.2	7.9	1.6	
3/19/2020		99.4			9.1	1.7	
3/20/2020	84.7		5.2	21.1			33
9/24/2020	85.6	92.3	3	16.6	7.2	0.99 (J)	26.2
3/2/2021		92.7					
3/3/2021	89.3		2.6	451 (o)	8.6	4.9	26.6
8/19/2021		86.5					
8/20/2021	84		2.9	18	8.9	5.4	24.7
2/8/2022				16.3	8.1	10.5	22.9
2/10/2022	81.8	86.5	2.4				
8/31/2022	85.9	90.2					
9/1/2022			2.5	13.5	7.6	13.4	21.2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			1.2	1.8			
6/7/2016		4.4			<1	5.2	
7/27/2016		4.7	1.7	1.9	0.08 (J)		
7/28/2016						5.1	
8/30/2016	160						
9/16/2016		4.8		1.7			
9/19/2016			1.8		0.08 (J)	4.8	
11/2/2016					0.1 (J)		
11/3/2016		5.3	0.69 (J)	1.9	(-)	5	
11/14/2016	150		0.00 (0)				
1/11/2017		5.2	<1	1.7			
1/13/2017					<1	4.3	
2/24/2017	120						
3/1/2017	.20		1.8	<1			
3/2/2017		5	1.0				
3/6/2017		3			<1	4.5	
4/26/2017			1.6	1.9	<1	4.9	
		5	1.0	1.3	*1	1 .3	
5/2/2017	120	5					
5/8/2017	120		-1	<1			
6/28/2017		5.0	<1	<1			
6/29/2017	440	5.2			<1	5.5	
7/11/2017	110						
10/3/2017						5.8	
10/4/2017		5.3		1.7	<1		
10/5/2017			1.6				
10/10/2017	93						
10/11/2017							20
11/20/2017							24
1/11/2018							23
2/20/2018							20.6
4/2/2018	88.8						
4/3/2018							24.5
6/5/2018						6.1	
6/6/2018					0.049 (J)		
6/7/2018			0.68 (J)				
6/11/2018		5.2		0.95 (J)			
6/28/2018							22
8/7/2018							20.7
9/19/2018	75						
9/24/2018							21.2
9/25/2018		6.1	1	1.5	0.13 (J)	7	
3/27/2019	65.9						17.7
4/2/2019		5.1				3.8	
4/3/2019			0.82 (J)	1.3	0.12 (J)		
9/24/2019						1	
9/25/2019		5.5			<1		
9/26/2019			0.64 (J)	1			
10/8/2019	52.3						
10/9/2019							15
3/17/2020	71.6						
3/24/2020		5.4	<1	0.99 (J)	<1	3	
3/25/2020							14.3

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	51.5						
9/23/2020		5.1	0.53 (J)	1.1			
9/24/2020					<1	3.6	11.7
3/1/2021	51.6						
3/3/2021		5.2	<1	1	<1		
3/4/2021						4.5	12
8/19/2021	52.6						
8/26/2021				1.2			19.2
8/27/2021		5.3	0.59 (J)		<1		
9/1/2021						5	
2/8/2022	50.9						14.6
2/9/2022		4.8	0.51 (J)	1.1	<1	3.9	
8/30/2022		4.7	0.78 (J)	1.3		3.2	
8/31/2022	48				<1		10.9

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		8	20	1.9	
7/26/2016		7.7	20	1.8	
8/31/2016					29
9/14/2016		7.5	19	1.8	
11/2/2016		8.2	20		
11/4/2016				2	
11/28/2016					36
1/12/2017			19	1.9	
1/13/2017		8.1			
2/22/2017					43
3/6/2017		8			
3/7/2017		_	20	2.1	
5/1/2017		8.4	20	4.1	
		0.4	20	2	
5/2/2017				2	60
5/8/2017			10	0.4	60
6/27/2017			18	2.1	
6/29/2017		9.2			
7/17/2017					63
10/3/2017			16	2.3	
10/5/2017		9.6			
10/12/2017	17				
10/16/2017					62
11/20/2017	71				
1/10/2018	66				
2/19/2018	57.2				64.6
4/3/2018	49.4				
6/6/2018			8.3		
6/7/2018		8.5		2	
6/28/2018	43.8				
8/6/2018					42.1
8/7/2018	40.5				
9/24/2018	39.7				
9/26/2018		10.2	7.9	2.3	
2/25/2019			-	-	42.1
3/26/2019	34.3				
4/3/2019	5	8.5	7	2.1	
6/12/2019		0.0	•	4.1	83.4
9/24/2019			5.5	2.4	00. 4
9/24/2019		8.5	5.5	2.4	
		6.5			120
10/8/2019	07.0				128
10/9/2019	27.9				
3/17/2020					98.6
3/24/2020	25.2		5.9	2.1	
3/25/2020		8.8			
9/22/2020		8.2	5.5	2.1	145
9/24/2020	22.9				
3/2/2021			2.6	2.3	156
3/3/2021		7.8			
3/4/2021	21.5				
8/20/2021					121
8/26/2021		8.5	6	2.4	
9/3/2021	21.3				
	-				

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2022	17.9				107
2/10/2022			4.9	2.4	
2/11/2022		7.7			
8/30/2022			5.7	2.4	101
8/31/2022	17.9	8			

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.001	<0.001				<0.001
6/2/2016	<0.001				<0.001	<0.001	
7/25/2016			<0.001		<0.001		<0.001
7/26/2016	<0.001	<0.001				0.0001 (J)	
9/13/2016		<0.001	<0.001				
9/14/2016				<0.001			<0.001
9/15/2016	<0.001					<0.001	
9/19/2016					<0.001		
11/1/2016		<0.001			<0.001	<0.001	<0.001
11/2/2016	<0.001						
11/4/2016			<0.001	<0.001			
12/15/2016				<0.001			
1/10/2017	<0.001						
1/11/2017		<0.001				<0.001	<0.001
1/16/2017			<0.001	<0.001	<0.001		
2/21/2017					<0.001		
3/1/2017							<0.001
3/2/2017		<0.001	<0.001			<0.001	
3/3/2017				<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				
4/28/2017				<0.001			
5/26/2017				<0.001			
6/27/2017		<0.001	<0.001				
6/28/2017				<0.001		<0.001	<0.001
6/30/2017	<0.001				<0.001		
3/27/2018	<0.001		<0.001		<0.001		
3/28/2018				<0.001		<0.001	<0.001
3/29/2018		<0.001					
2/26/2019	<0.001				<0.001		
2/27/2019		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2020		<0.001	5.5E-05 (J)				
2/11/2020				<0.001			<0.001
2/12/2020	8.9E-05 (J)				<0.001	<0.001	
3/18/2020	<0.001		<0.001				
3/19/2020		<0.001		<0.001	<0.001	<0.001	<0.001
9/23/2020		<0.001	<0.001	<0.001		<0.001	0.00016 (J)
9/24/2020					<0.001		
9/25/2020	<0.001						
2/10/2021	<0.001			<0.001		<0.001	<0.001
2/11/2021					<0.001		
2/12/2021		<0.001	<0.001				
2/9/2022		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2022	<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

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.001	<0.001	<0.001	0.00012 (J)			
6/9/2016					<0.001	<0.001	<0.001
8/1/2016	<0.001	<0.001	<0.001	0.0001 (J)			
8/2/2016					<0.001	<0.001	<0.001
9/20/2016	<0.001	<0.001	<0.001	<0.001			
9/21/2016					<0.001	<0.001	<0.001
11/7/2016	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
11/8/2016					<0.001		
1/18/2017	<0.001	<0.001	<0.001		<0.001	<0.001	
1/19/2017				<0.001			<0.001
2/21/2017	<0.001	<0.001				<0.001	
2/22/2017				<0.001	<0.001		<0.001
2/23/2017			<0.001				
5/3/2017		<0.001					
5/5/2017					<0.001	<0.001	
5/8/2017	<0.001		<0.001	0.0001 (J)			<0.001
6/30/2017			<0.001	0.0001 (J)			
7/5/2017					<0.001		<0.001
7/7/2017						<0.001	
7/10/2017	<0.001	<0.001					
3/29/2018			<0.001	<0.001			<0.001
3/30/2018	<0.001	<0.001			<0.001	<0.001	
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2020	<0.001	5.7E-05 (J)	<0.001	0.0001 (J)	<0.001	<0.001	<0.001
3/19/2020		5.5E-05 (J)			<0.001	<0.001	
3/20/2020	<0.001		<0.001	0.00011 (J)			<0.001
9/24/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/10/2021	<0.001	<0.001	<0.001	<0.001			
2/11/2021					<0.001		
2/12/2021						<0.001	<0.001
2/8/2022				<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001				
8/31/2022	<0.001	<0.001					
9/1/2022			<0.001	<0.001	<0.001	<0.001	<0.001

		YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/201	6			<0.001	<0.001			
6/7/201	6		<0.001			<0.001	<0.001	
7/27/20	16		<0.001	<0.001	<0.001	<0.001		
7/28/20	16						<0.001	
8/30/20	16	<0.001						
9/16/20			<0.001		<0.001			
9/19/20				<0.001		<0.001	<0.001	
11/2/20						<0.001		
11/3/20			<0.001	<0.001	<0.001		<0.001	
11/14/2		<0.001						
1/11/20			<0.001	<0.001	<0.001			
1/13/20						<0.001	<0.001	
2/24/20		<0.001				-0.001	-0.001	
3/1/201		-0.001		<0.001	<0.001			
3/2/201			<0.001	40.001	10.001			
			<0.001			<0.001	<0.001	
3/6/201				<0.001	<0.001	<0.001	<0.001 <0.001	
4/26/2015			<0.001	~U.UU I	~U.UU I	<0.001	~U.UU I	
5/2/201		<0.001	<0.001					
5/8/201		<0.001		10.001	10.001			
6/28/20				<0.001	<0.001	.0.004	.0.004	
6/29/20		0.004	<0.001			<0.001	<0.001	
7/11/20		<0.001						
10/10/20		<0.001						
10/11/20								<0.001
11/20/20								<0.001
1/11/20								<0.001
2/20/20								<0.001
3/28/20			<0.001	<0.001	<0.001			
3/29/20						<0.001	<0.001	
4/2/2018		<0.001						
4/3/2018								<0.001
6/28/20	18							<0.001
8/7/2018	8							<0.001
9/19/20	18	<0.001						
9/24/20	18							<0.001
9/25/20	18						<0.001	
3/5/2019			<0.001		<0.001	<0.001	<0.001	
3/6/2019	9			<0.001				
4/2/2019	9		<0.001				<0.001	
4/3/2019	9			<0.001	<0.001	<0.001		
8/20/20	19	5.8E-05 (J)						
8/21/20	19							<0.001
9/24/20	19						<0.001	
9/25/20	19		<0.001			<0.001		
9/26/20	19			<0.001	<0.001			
10/8/20	19	8.4E-05 (J)						
2/11/20	20		<0.001	<0.001	<0.001			
2/12/20	20					<0.001	<0.001	<0.001
3/17/20	20	<0.001						
3/24/20			<0.001	<0.001	<0.001	<0.001	<0.001	
3/25/202								<0.001
8/27/20		<0.001						

9/23/2020		YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (ba)	YGWA-39 (bg)
9/24/2020 <0.001		1GWA-47 (bg)	1GVVA-173 (bg)	TGVVA-TOT (bg)	1 GVVA-103 (bg)	1 GWA-203 (bg)	TGWA-2TI (bg)	TGWA-55 (bg)
2/9/2021 <0.001	9/23/2020		<0.001	<0.001	<0.001			
2/10/2021 <0.001	9/24/2020					<0.001	<0.001	<0.001
8/19/2021 <0.001 2/8/2022 <0.001 <0.001 <0.001 <0.001 <0.001 2/9/2022 <0.001 <0.001 <0.001 <0.001 <0.001 8/30/2022 <0.001 <0.001 <0.001 <0.001	2/9/2021			<0.001	<0.001	<0.001	<0.001	
2/8/2022 <0.001	2/10/2021							<0.001
2/9/2022 <0.001	8/19/2021	<0.001						
8/30/2022 <0.001 <0.001 <0.001 <0.001	2/8/2022	<0.001						<0.001
	2/9/2022		<0.001	<0.001	<0.001	<0.001	<0.001	
8/31/2022 <0.001 <0.001 <0.001	8/30/2022		<0.001	<0.001	<0.001		<0.001	
	8/31/2022	<0.001				<0.001		<0.001

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
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
2/4/2015					<0.001
6/2/2016		<0.001	<0.001	<0.001	~V.VU I
7/26/2016		<0.001	<0.001	<0.001	
8/31/2016		<0.001	<0.001	<0.001	<0.001
		<0.001	-0.001	<0.001	NO.001
9/14/2016		<0.001	<0.001	<0.001	
11/2/2016		<0.001	<0.001	-0.001	
11/4/2016				<0.001	0.004
11/28/2016			0.004	.0.004	<0.001
1/12/2017		-0.001	<0.001	<0.001	
1/13/2017		<0.001			0.004
2/22/2017		0.004			<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	0T 0T (I)
5/8/2017					6E-05 (J)
6/27/2017			<0.001	<0.001	
6/29/2017		<0.001			
7/17/2017					6E-05 (J)
10/12/2017	<0.001				
10/16/2017					7E-05 (J)
11/20/2017	<0.001				
1/10/2018	<0.001				
2/19/2018	<0.001				<0.001
3/29/2018		<0.001	<0.001	<0.001	
4/3/2018	<0.001				
6/28/2018	<0.001				
8/6/2018					<0.001
8/7/2018	<0.001				
9/24/2018	<0.001				
2/25/2019					<0.001
3/4/2019		<0.001	<0.001	<0.001	
4/3/2019		<0.001	<0.001	<0.001	
6/12/2019					<0.001
8/19/2019					5.5E-05 (J)

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/21/2019	<0.001				
9/24/2019			<0.001	<0.001	
9/25/2019		<0.001			
10/8/2019					<0.001
2/12/2020	<0.001	<0.001	<0.001	<0.001	
3/17/2020					<0.001
3/24/2020	<0.001		<0.001	<0.001	
3/25/2020		<0.001			
8/26/2020					<0.001
9/22/2020		<0.001	<0.001	<0.001	<0.001
9/24/2020	<0.001				
2/8/2021			<0.001	<0.001	
2/9/2021		<0.001			
2/10/2021	<0.001				
3/2/2021					<0.001
8/20/2021					<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	<0.001
8/31/2022	<0.001	<0.001			

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		120	54				150
6/2/2016	46				36	130	
7/25/2016			48		50		135
7/26/2016	54	94				141	
9/13/2016		105	67				
9/14/2016				152			127
9/15/2016	54					153	
9/19/2016					35		
11/1/2016		44			<25	92	75
11/2/2016	71						
11/4/2016			60	148			
12/15/2016				191			
1/10/2017	45						
1/11/2017		107				159	148
1/16/2017			65	180	47		
2/21/2017					<25		
3/1/2017					20		182
3/2/2017		98	61			117	102
3/3/2017		50	01	156		117	
3/8/2017	178			130			
4/26/2017	52				55	181	92
4/27/2017	32	116	31		33	101	32
4/28/2017		110	31	130			
5/26/2017				223			
6/27/2017		89	42	223			
		69	42	166		160	126
6/28/2017 6/30/2017	45			166	42	169	126
10/3/2017	45	119	58	153	42		
		119	36	155	21	141	147
10/4/2017	40				31	141	147
10/5/2017 6/5/2018	40	127					
		127	06				
6/6/2018			96	146		05	
6/7/2018	114			146		95	150
6/8/2018	114				EO		158
6/11/2018	F0	117	60	155	59	165	120
10/1/2018	50	117	60	155	E-7	165	138
10/2/2018		97	97		57		
3/28/2019 3/29/2019	62	87	87	150			
	63			150	E 4	140	10 (1)
4/1/2019		104	54	140	54	149	19 (J)
9/24/2019	64	124	54	146	E-1	157	150
9/25/2019	64		25		51	157	159
3/18/2020	57	440	35	110	47	440	440
3/19/2020		116	45	148	47	146	148
9/23/2020		108	15	161		157	155
9/24/2020	54				51		
9/25/2020	54						
3/1/2021					23		
3/2/2021	67						
3/3/2021		99	39	138		137	111
8/19/2021	54	105	44	150	50	144	455
8/27/2021				150			155

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		105	57	156		154	145
2/10/2022	56						
2/11/2022					66		
8/30/2022		116		153			
8/31/2022	51		46		33	141	137

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	220	200	190	210			
6/9/2016					240	210	150
8/1/2016	211	191	191	209			
8/2/2016					226	202	155
9/20/2016	217	213	205	224			
9/21/2016					214	216	138
11/7/2016	301	284	264	291		399	291
11/8/2016					229		
1/18/2017	265 (D)	158 (D)	167 (D)		243 (D)	215 (D)	
1/19/2017				215 (D)			145 (D)
2/21/2017	158	137				198	
2/22/2017				262	310		185
2/23/2017			253				
5/3/2017		269					
5/5/2017					289	347	
5/8/2017	207		174	187			114
6/30/2017			193	209			
7/5/2017					217		136
7/7/2017						236	
7/10/2017	219	183					
10/5/2017					221		139
10/6/2017				183			
10/9/2017			185			204	
10/10/2017	194	179					
6/11/2018							156
6/12/2018				208	234	243	
6/13/2018	228	196	219				
10/2/2018	227	191	227	206			154
10/3/2018					232	237	
4/1/2019			198	221	238		147
4/2/2019	223	224				<25	
9/25/2019	225	190					162
9/26/2019			198	225	241	239	
3/19/2020	044	194	105	100	212	202	107
3/20/2020	211	474	195	182	000	000	137
9/24/2020	212	171	186	185	209	226	133
3/2/2021	205	154	170	170	104	047	110
3/3/2021	205	170	173	178	184	217	110
8/19/2021	224	176	106	160	104	100	110
8/20/2021	224		196	169	194	192	110
2/8/2022	207	169	100	159	206	216	120
2/10/2022	207	168	190				
8/31/2022	228	206	102	104	100	225	100
9/1/2022			193	124	186	225	128

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			120	58			
6/7/2016		28			38	60	
7/27/2016		74	94	35	74		
7/28/2016						81	
8/30/2016	319						
9/16/2016		67		35			
9/19/2016			92		45	68	
11/2/2016					53		
11/3/2016		41	104	48		61	
11/14/2016	280						
1/11/2017		104	133	95			
1/13/2017					46	76	
2/24/2017	162						
3/1/2017			119	79			
3/2/2017		77					
3/6/2017					164	167	
4/26/2017			162	36	34	50	
5/2/2017		142					
5/8/2017	194						
6/28/2017			98	45			
6/29/2017		53			68	94	
7/11/2017	193						
10/3/2017						149	
10/4/2017		61		45	54		
10/5/2017			104				
10/10/2017	175						
10/11/2017							68
11/20/2017							139
1/11/2018							153
2/20/2018							87
4/2/2018	192						
4/3/2018							85
6/5/2018						109	
6/6/2018					79		
6/7/2018			68				
6/11/2018		70		74			
6/28/2018							88
8/7/2018							89
9/19/2018	186						
9/24/2018							82
9/25/2018		86	109	63	73	122	
3/27/2019	170						75
4/2/2019		72				134	
4/3/2019			89	63	57		
9/24/2019						157	
9/25/2019		81			75		
9/26/2019			126	72			
10/8/2019	172						
10/9/2019							119
3/17/2020	165						
3/24/2020		71	91	59	76	117	
3/25/2020							158

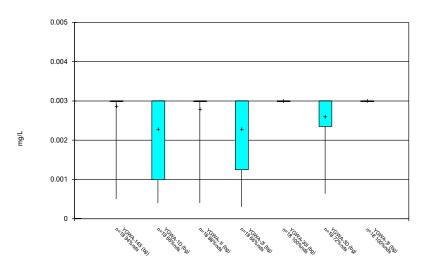
	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	141						
9/23/2020		99	103	81			
9/24/2020					69	113	170
3/1/2021	145						
3/3/2021		57	95	37	53		
3/4/2021						110	168
8/19/2021	134						
8/26/2021				31			249
8/27/2021		93	112		67		
9/1/2021						137	
2/8/2022	151						248
2/9/2022		81	103	60	72	131	
8/30/2022		81	100	52		122	
8/31/2022	116				62		242

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		96	160	66	
7/26/2016		92	177	78	
8/31/2016					209
9/14/2016		102	187	73	
11/2/2016		115	181		
11/4/2016				75	
11/28/2016					102
1/12/2017			202	86	
1/13/2017		67			
2/22/2017					164
3/6/2017		159			
3/7/2017			257	108	
5/1/2017		107	165	100	
5/2/2017		107	100	103	
5/2/2017 5/8/2017				103	145
			190	70	145
6/27/2017		70	189	73	
6/29/2017		79			405
7/17/2017			.=-		185
10/3/2017			170	89	
10/5/2017		95			
10/12/2017	74				
10/16/2017					218
11/20/2017	179				
1/10/2018	140				
2/19/2018	119				173
4/3/2018	106				
6/6/2018			151		
6/7/2018		90		142	
6/28/2018	112				
8/6/2018					158
8/7/2018	103				
9/24/2018	107				
9/26/2018		116	144	86	
2/25/2019		-			92
3/26/2019	90				
4/3/2019	-	111	142	83	
6/12/2019			176	50	226
9/24/2019			129	79	220
9/24/2019		117	129	79	
		117			276
10/8/2019	00				276
10/9/2019	98				405
3/17/2020					185
3/24/2020	84		139	68	
3/25/2020		146			
9/22/2020		83	104	75	281
9/24/2020	77				
3/2/2021			52	67	296
3/3/2021		80			
3/4/2021	57				
8/20/2021					254
8/26/2021		93	123	86	
9/3/2021	88				
- -	-				

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2022	93				283
2/10/2022			127	77	
2/11/2022		102			
8/30/2022			148	86	244
8/31/2022	92	92			

FIGURE B.

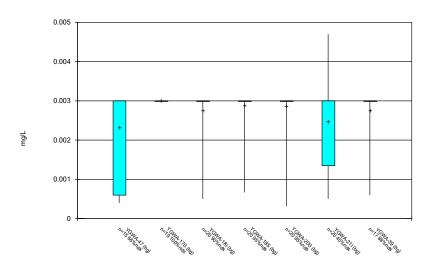
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

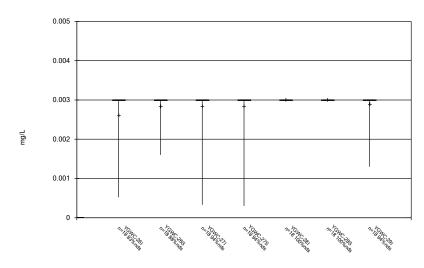
Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Antimony Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

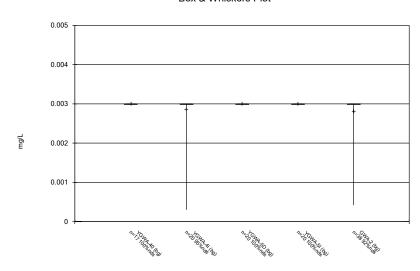
Box & Whiskers Plot

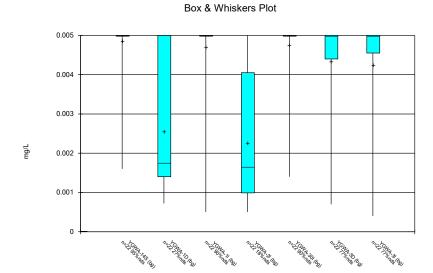


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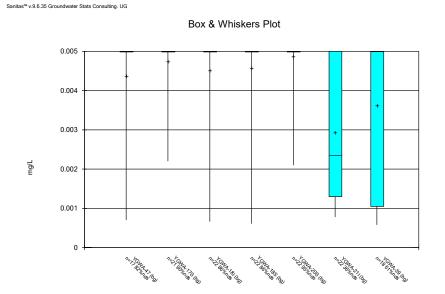
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Box & Whiskers Plot

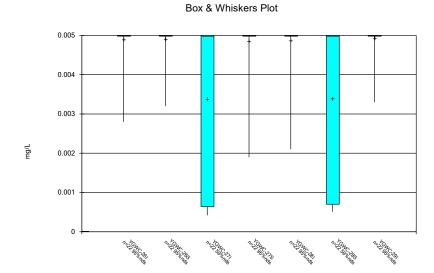




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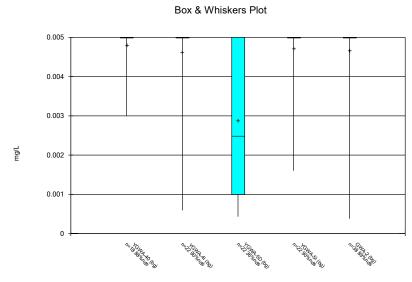


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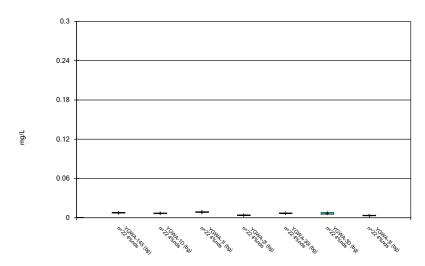
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2





Constituent: Arsenic Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

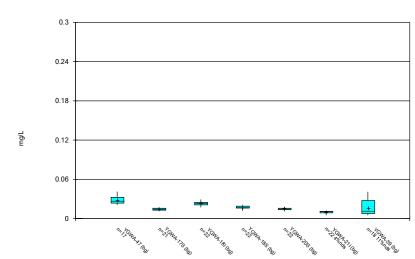
Box & Whiskers Plot



Constituent: Barium Analysis Run 10/13/2022 3:44 PM
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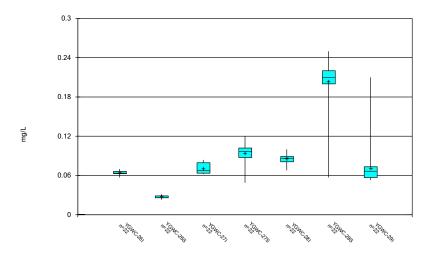
Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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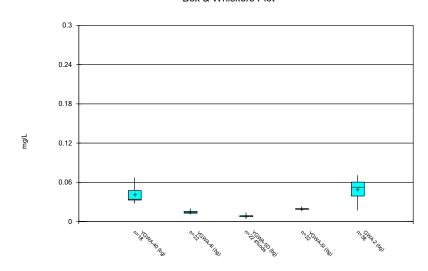
Box & Whiskers Plot



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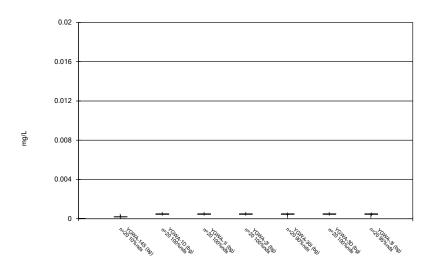
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Box & Whiskers Plot



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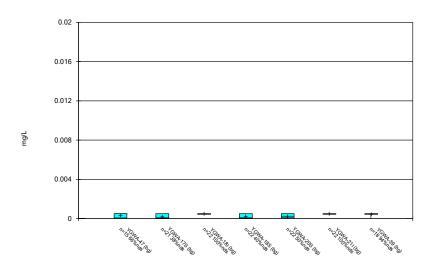
Box & Whiskers Plot



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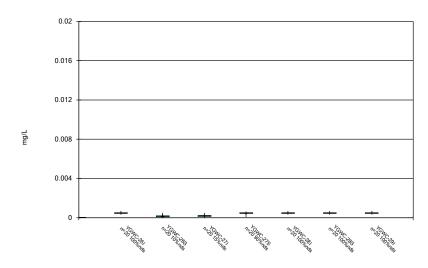
Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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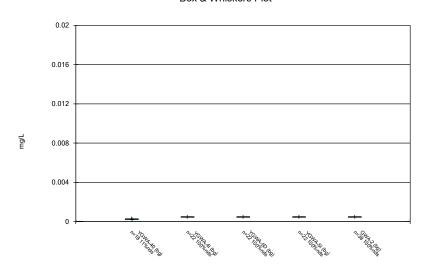
Box & Whiskers Plot



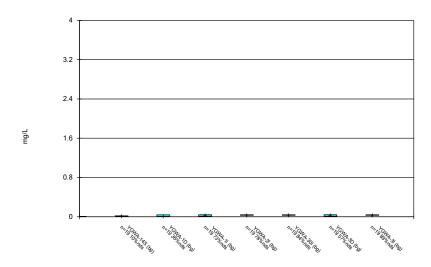
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Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot



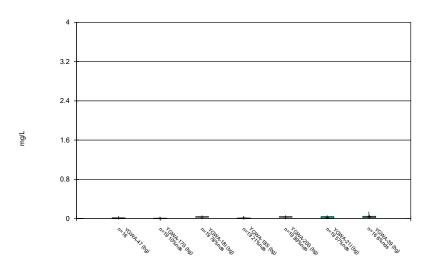
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

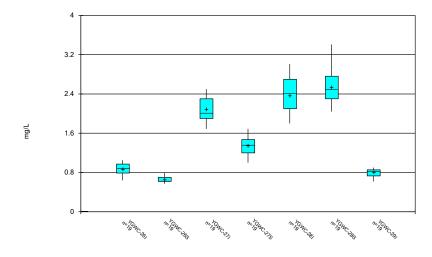
Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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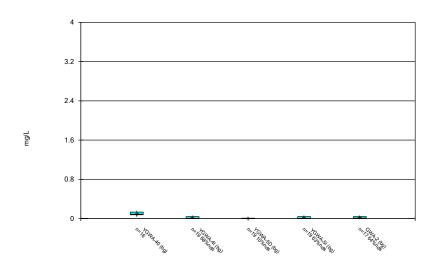
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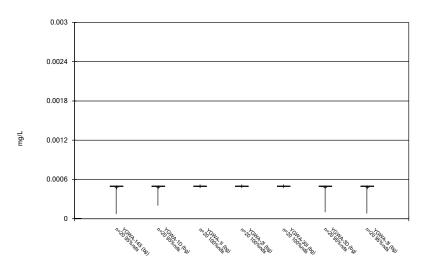
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Box & Whiskers Plot



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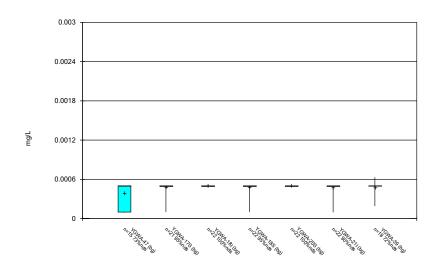
Box & Whiskers Plot



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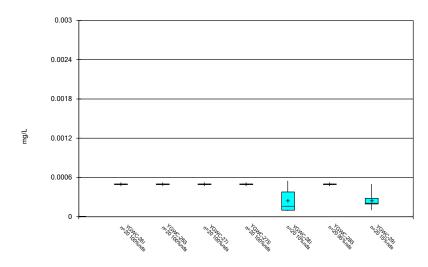
Sanitas[™] v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Cadmium Analysis Run 10/13/2022 3:44 PM
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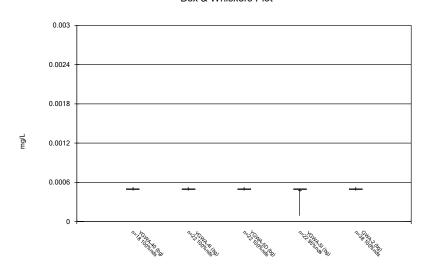
Box & Whiskers Plot



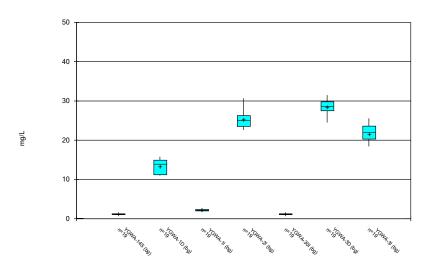
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Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot



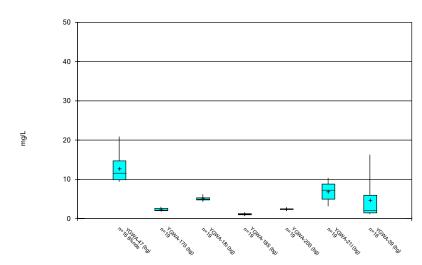
Box & Whiskers Plot



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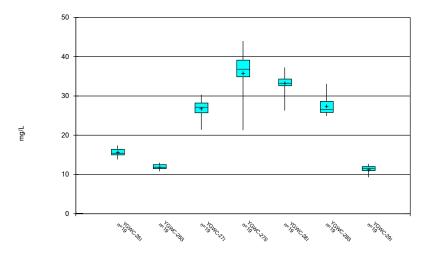
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Box & Whiskers Plot



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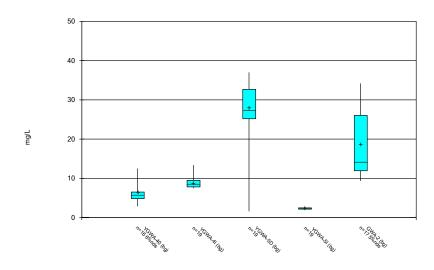
Box & Whiskers Plot



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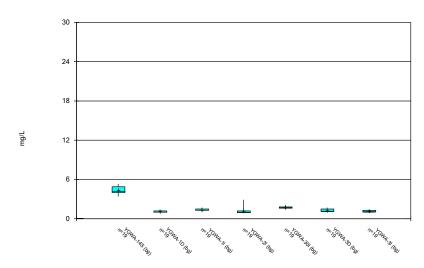
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Box & Whiskers Plot



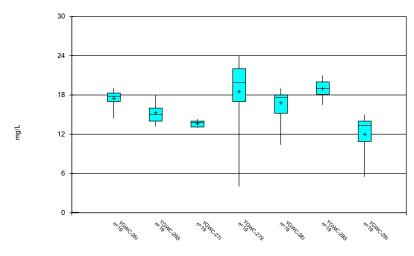
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



Constituent: Chloride Analysis Run 10/13/2022 3:44 PM
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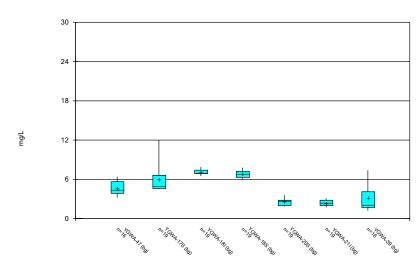
Box & Whiskers Plot



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Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

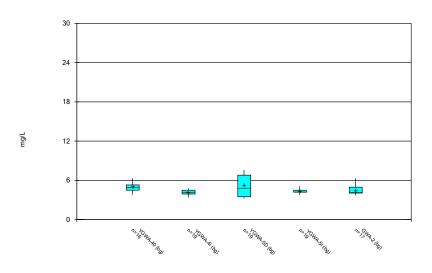
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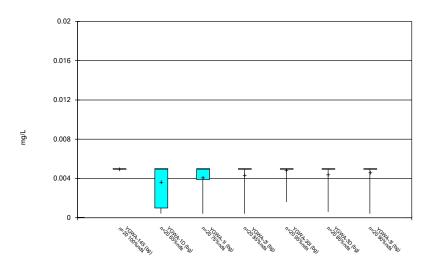
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Box & Whiskers Plot



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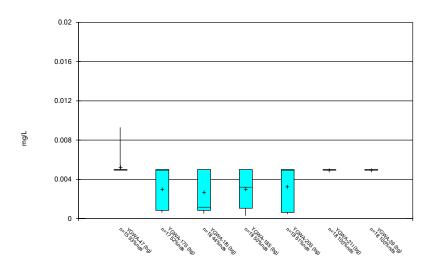
Box & Whiskers Plot



Constituent: Chromium Analysis Run 10/13/2022 3:44 PM
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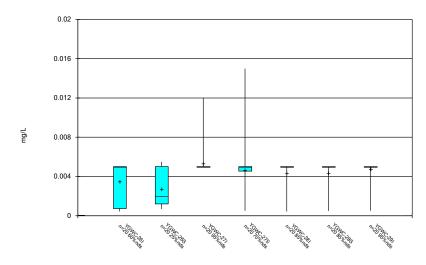
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Box & Whiskers Plot



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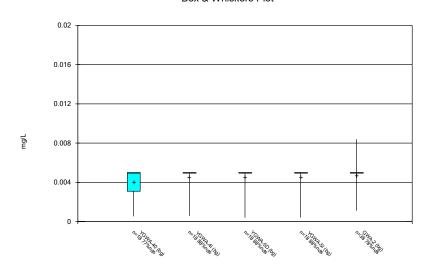
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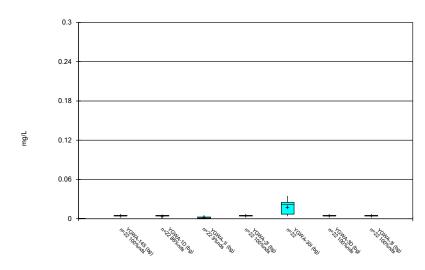
Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Chromium Analysis Run 10/13/2022 3:45 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

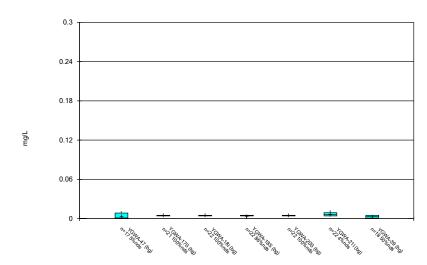
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 10/13/2022 3:45 PM
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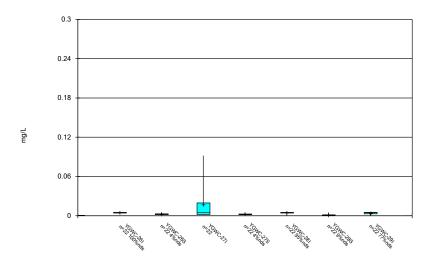
Sanitas[™] v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Cobalt Analysis Run 10/13/2022 3:45 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

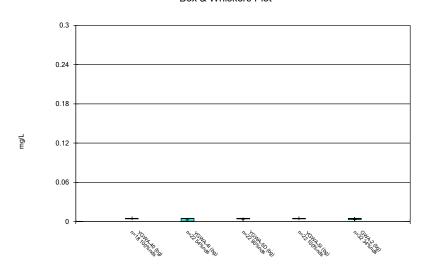
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 10/13/2022 3:45 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

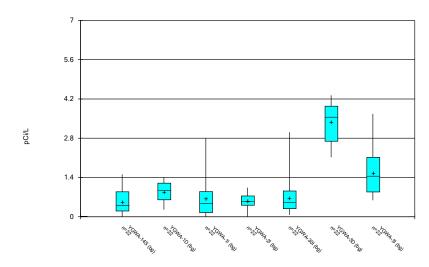
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Box & Whiskers Plot



Constituent: Cobalt Analysis Run 10/13/2022 3:45 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

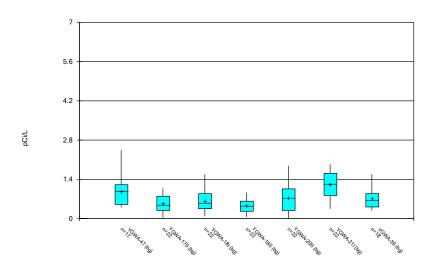
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 10/13/2022 3:45 PM
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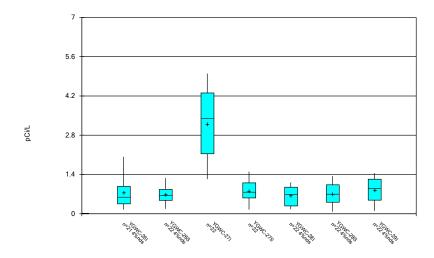
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Box & Whiskers Plot



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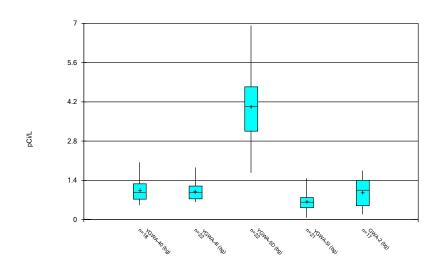
Box & Whiskers Plot



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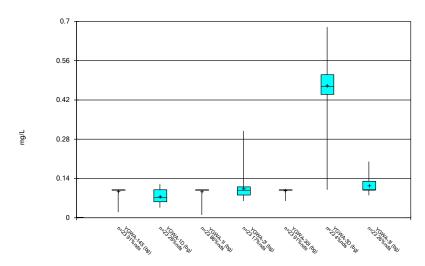
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Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 10/13/2022 3:45 PM
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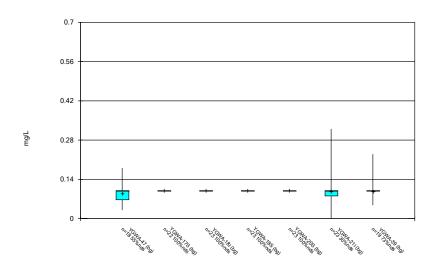
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 10/13/2022 3:45 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

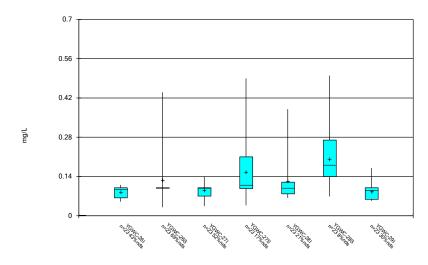
Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Fluoride Analysis Run 10/13/2022 3:45 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

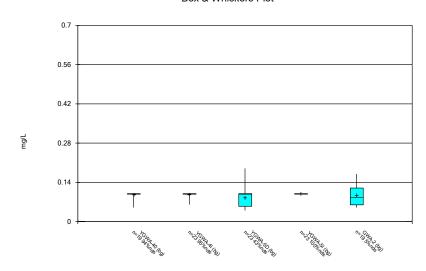
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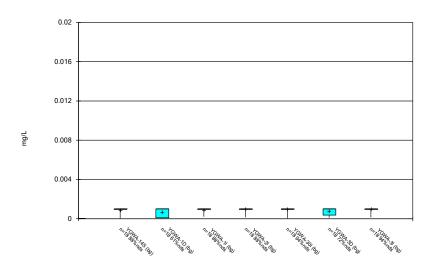
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Box & Whiskers Plot



Constituent: Fluoride Analysis Run 10/13/2022 3:45 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

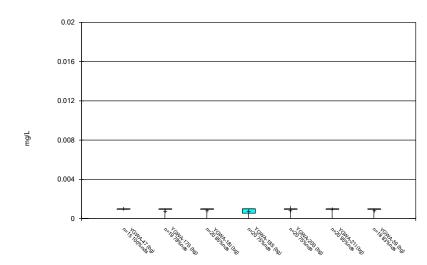
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Constituent: Lead Analysis Run 10/13/2022 3:45 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

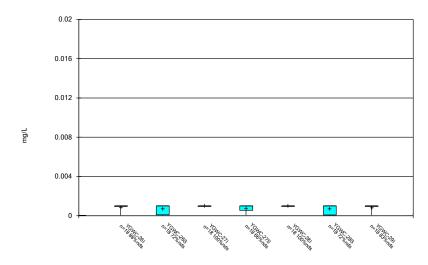
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Box & Whiskers Plot



Constituent: Lead Analysis Run 10/13/2022 3:45 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

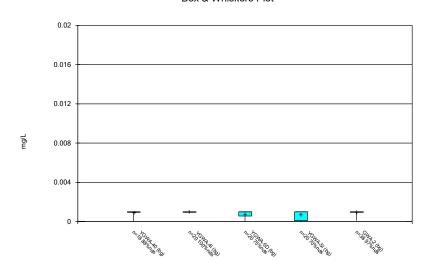
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

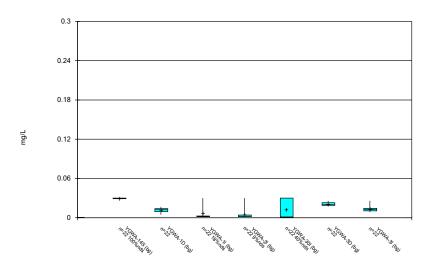
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Box & Whiskers Plot



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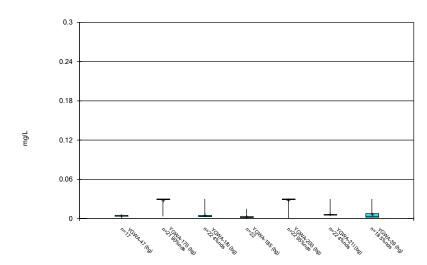
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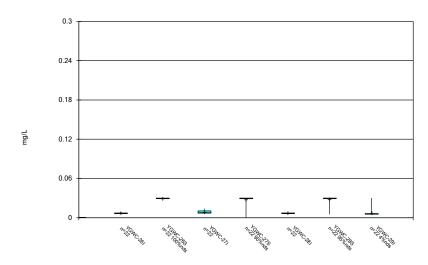
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Box & Whiskers Plot



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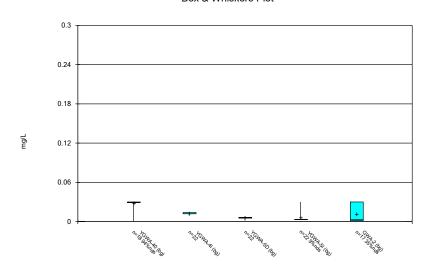
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

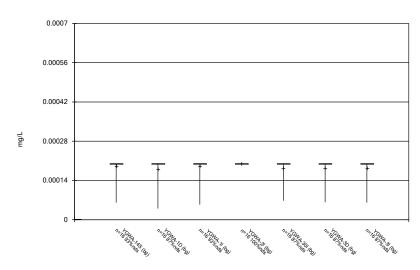
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Box & Whiskers Plot



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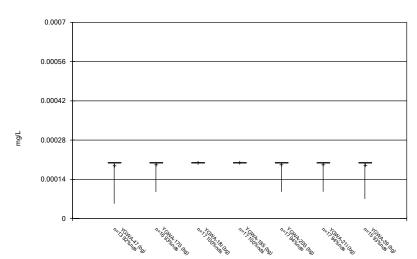
Box & Whiskers Plot



Constituent: Mercury Analysis Run 10/13/2022 3:45 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

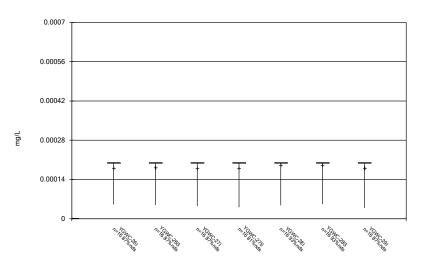
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Box & Whiskers Plot



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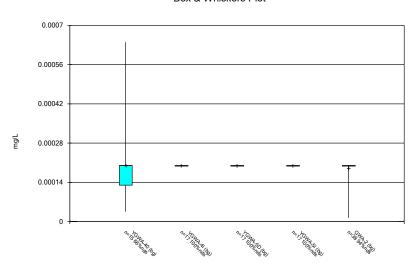
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Constituent: Mercury Analysis Run 10/13/2022 3:45 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

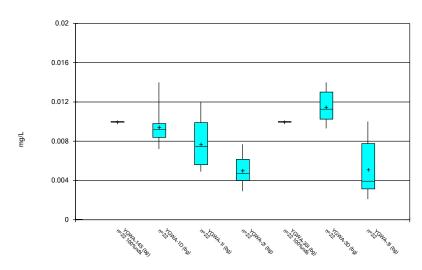
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Box & Whiskers Plot



Constituent: Mercury Analysis Run 10/13/2022 3:45 PM
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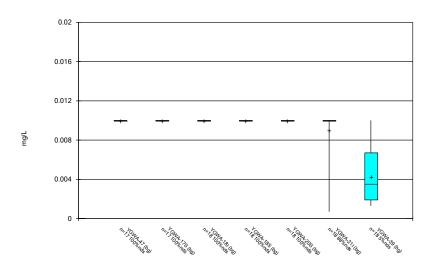
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 10/13/2022 3:45 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

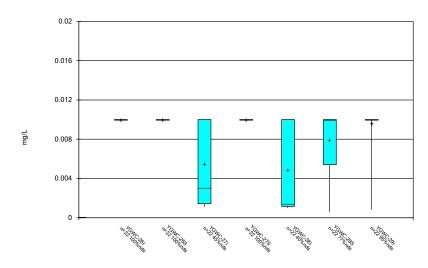
Sanitas[™] v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 10/13/2022 3:45 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

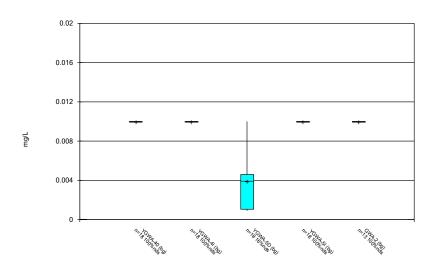
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

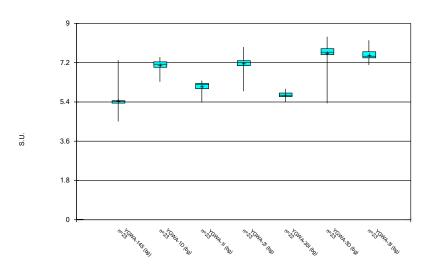
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Box & Whiskers Plot



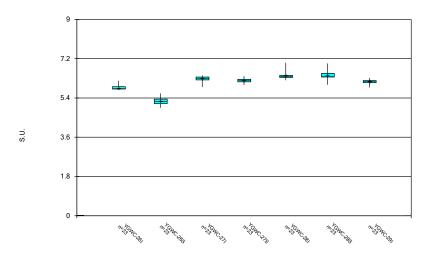
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



Constituent: pH Analysis Run 10/13/2022 3:45 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

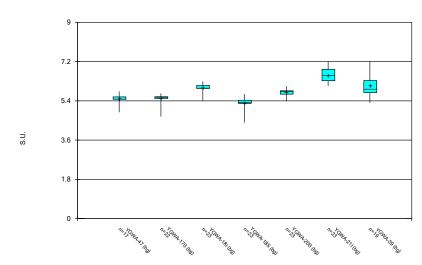
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

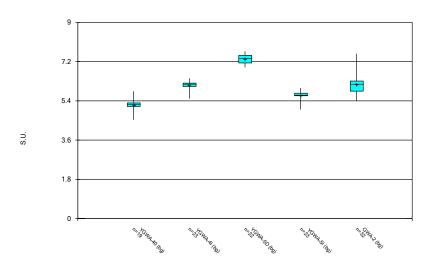
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

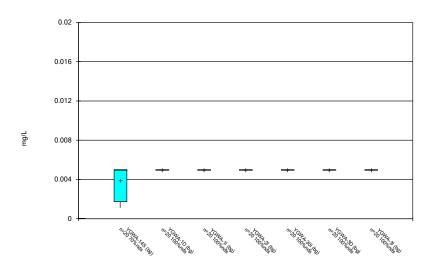
Box & Whiskers Plot



Constituent: pH Analysis Run 10/13/2022 3:45 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

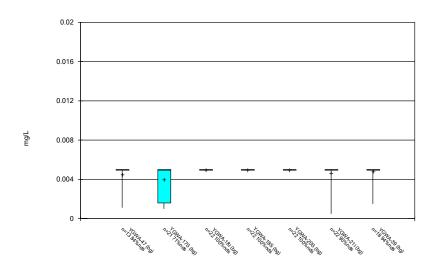
Box & Whiskers Plot



Constituent: Selenium Analysis Run 10/13/2022 3:45 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

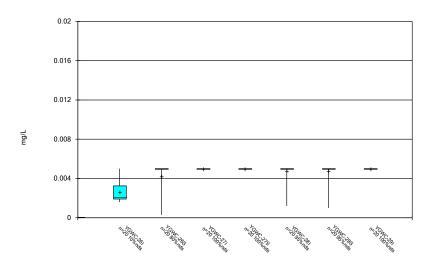
Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Selenium Analysis Run 10/13/2022 3:45 PM
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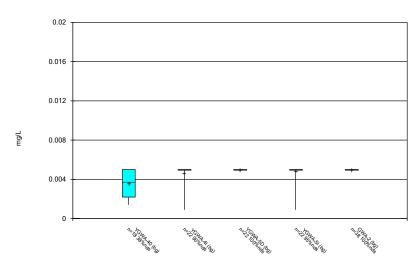
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

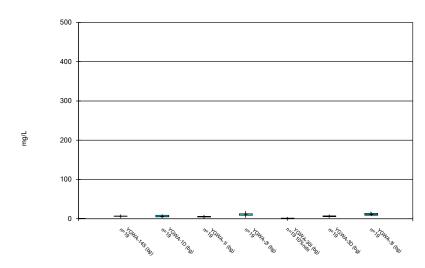
Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Selenium Analysis Run 10/13/2022 3:45 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

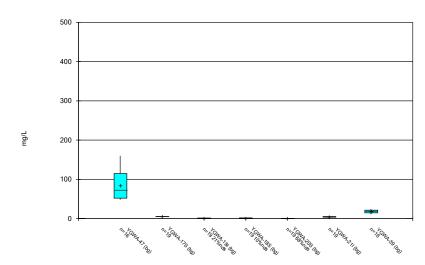
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 10/13/2022 3:45 PM
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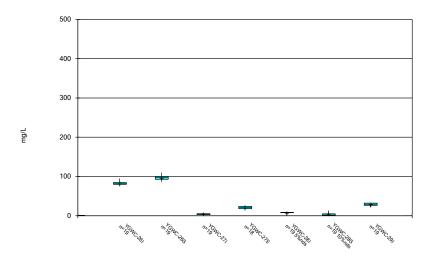
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Box & Whiskers Plot



Constituent: Sulfate Analysis Run 10/13/2022 3:45 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

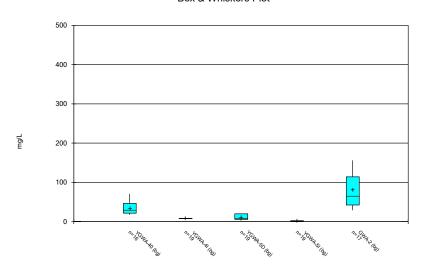
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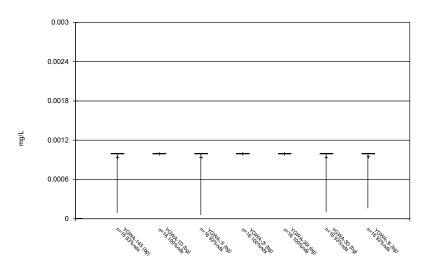
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Box & Whiskers Plot



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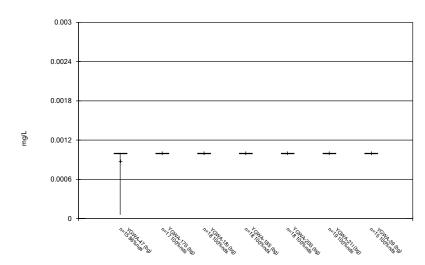
Box & Whiskers Plot



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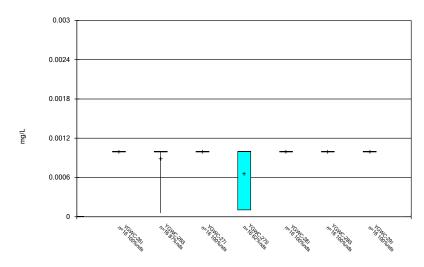
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Box & Whiskers Plot



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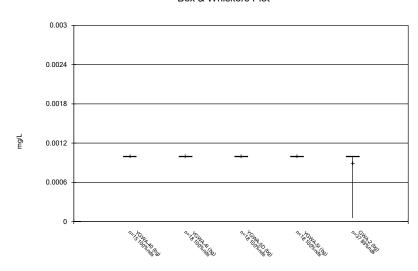
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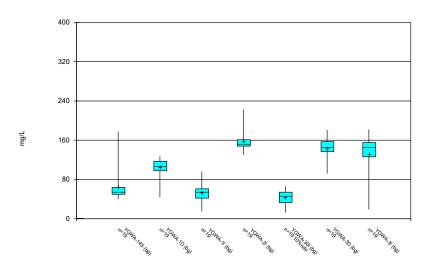
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Box & Whiskers Plot



Constituent: Thallium Analysis Run 10/13/2022 3:45 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

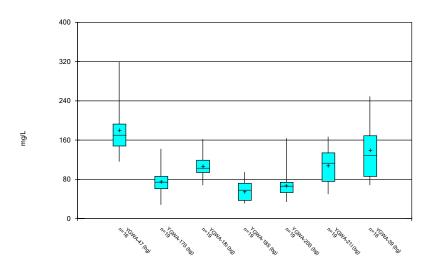
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 10/13/2022 3:45 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

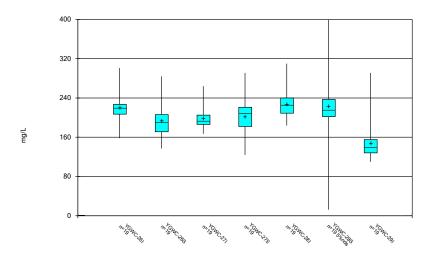
Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 10/13/2022 3:45 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

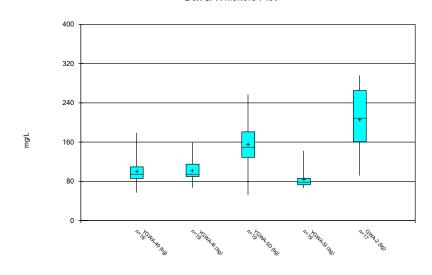
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 10/13/2022 3:45 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 10/13/2022 3:45 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE C.

Outlier Summary

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/13/2022, 3:47 PM

	GWA-2 Cobalt (mg/L) YGWC-261	Combined Radium 226 + 228 (pCilL) YGWA-47 pH (S.U.) YGWC-27S Sulfate (mg/L)
6/8/2016	6.68 (o)	
4/2/2018		6.3 (o)
8/26/2020	0.2 (O)	
9/22/2020	0.16 (O)	
3/2/2021	0.21 (O)	
3/3/2021		451 (o)
8/20/2021	0.074 (O)	
2/8/2022	0.072 (O)	
8/30/2022	0.075 (O)	

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/13/2022, 3:52 PM Constituent <u>Well</u> Upper Lim. Lower Lim. Date Observ. Sig. Bg N Bg Mean Std. Dev. %NDs ND Adj. Transform Alpha Method 8/31/2022 0.64 Yes 350 n/a Boron (mg/L) YGWC-26I 0.16 n/a n/a 48.57 n/a n/a 0.00004918 NP Inter (normality) 1 of 2 8/31/2022 0.7 Boron (mg/L) YGWC-26S 0.16 n/a Yes 350 n/a n/a 48.57 n/a n/a 0.00004918 NP Inter (normality) 1 of 2 Boron (mg/L) YGWC-27I 0.16 9/1/2022 2.3 Yes 350 n/a 48.57 n/a 0.00004918 NP Inter (normality) 1 of 2 n/a n/a n/a Boron (mg/L) YGWC-27S 0.16 9/1/2022 Yes 350 n/a 48.57 n/a 0.00004918 NP Inter (normality) 1 of 2 Boron (mg/L) YGWC-28I 0.16 9/1/2022 1.8 Yes 350 n/a 48.57 n/a 0.00004918 NP Inter (normality) 1 of 2 n/a n/a n/a Boron (mg/L) YGWC-28S 0.16 9/1/2022 2.2 Yes 350 n/a 48.57 n/a 0.00004918 NP Inter (normality) 1 of 2 YGWC-29I Boron (mg/L) 9/1/2022 0.71 Yes 350 n/a 48.57 n/a n/a 0.00004918 NP Inter (normality) 1 of 2 0.16 n/a n/a Chloride (mg/L) YGWC-26I 12 8/31/2022 16.6 Yes 350 n/a 0.00004918 NP Inter (normality) 1 of 2 YGWC-26S 8/31/2022 15 0 0.00004918 NP Inter (normality) 1 of 2 Chloride (mg/L) 12 n/a Yes 350 n/a n/a n/a n/a Chloride (mg/L) YGWC-27I 12 9/1/2022 Yes 350 n/a 0.00004918 NP Inter (normality) 1 of 2 Yes 350 n/a Chloride (mg/L) YGWC-28S 12 9/1/2022 16.5 0.00004918 NP Inter (normality) 1 of 2 n/a n/a n/a n/a Total Dissolved Solids (mg/L) 209.3 8/31/2022 Yes 350 108.1 0.5714None 0.001075 Param Inter 1 of 2 YGWC-26I n/a Total Dissolved Solids (mg/L) YGWC-28S 9/1/2022 225 Yes 350 108.1 0.5714None 0.001075 209.3 n/a 54.44 Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

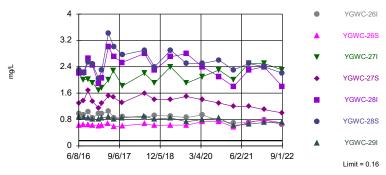
Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/13/2022, 3:52 PM

<u>Constituent</u>	Well	Upper Lir	n. Lower Lim	n. Date	Observ.	Sig. Bg N Bg Mean	Std. Dev.	%NDs ND Adj.	Transform	<u>Alpha</u>	Method
Boron (mg/L)	YGWC-26I	0.16	n/a	8/31/2022	0.64	Yes 350 n/a	n/a	48.57 n/a	n/a		NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	8/31/2022	0.7	Yes 350 n/a	n/a	48.57 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	9/1/2022	2.3	Yes 350 n/a	n/a	48.57 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	9/1/2022	1	Yes 350 n/a	n/a	48.57 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	9/1/2022	1.8	Yes 350 n/a	n/a	48.57 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	9/1/2022	2.2	Yes 350 n/a	n/a	48.57 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29I	0.16	n/a	9/1/2022	0.71	Yes 350 n/a	n/a	48.57 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26I	37	n/a	8/31/2022	16.4	No 350 n/a	n/a	0.8571n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	37	n/a	8/31/2022	10.8	No 350 n/a	n/a	0.8571n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	37	n/a	9/1/2022	28.2	No 350 n/a	n/a	0.8571n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	9/1/2022	21.3	No 350 n/a	n/a	0.8571n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	37	n/a	9/1/2022	26.3	No 350 n/a	n/a	0.8571n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	37	n/a	9/1/2022	33.1	No 350 n/a	n/a	0.8571n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29I	37	n/a	9/1/2022	11	No 350 n/a	n/a	0.8571n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	12	n/a	8/31/2022	16.6	Yes 350 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	12	n/a	8/31/2022	15	Yes 350 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	12	n/a	9/1/2022	13.4	Yes 350 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	12	n/a	9/1/2022	10.4	No 350 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	12	n/a	9/1/2022	10.4	No 350 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	12	n/a	9/1/2022	16.5	Yes 350 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-29I	12	n/a	9/1/2022	8.1	No 350 n/a	n/a	0 n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-26I	0.68	n/a	8/31/2022	0.082J	No 419 n/a	n/a	65.63 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	0.68	n/a	8/31/2022	0.076J	No 419 n/a	n/a	65.63 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	0.68	n/a	9/1/2022	0.1	No 419 n/a	n/a	65.63 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	0.68	n/a	9/1/2022	0.12	No 419 n/a	n/a	65.63 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	0.68	n/a	9/1/2022	0.11	No 419 n/a	n/a	65.63 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	0.68	n/a	9/1/2022	0.16	No 419 n/a	n/a	65.63 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29I	0.68	n/a	9/1/2022	0.091J	No 419 n/a	n/a	65.63 n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-26I	8.39	4.4	8/31/2022	5.77	No 429 n/a	n/a	0 n/a	n/a		NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-26S	8.39	4.4	8/31/2022	5.61	No 429 n/a	n/a	0 n/a	n/a		NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27I	8.39	4.4	9/1/2022	6.13	No 429 n/a	n/a	0 n/a	n/a		NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27S	8.39	4.4	9/1/2022	6.13	No 429 n/a	n/a	0 n/a	n/a		NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28I	8.39	4.4	9/1/2022	6.41	No 429 n/a	n/a	0 n/a	n/a		NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28S	8.39	4.4	9/1/2022	6.59	No 429 n/a	n/a	0 n/a	n/a		NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-29I	8.39	4.4	9/1/2022	6.05	No 429 n/a	n/a	0 n/a	n/a		NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26I	160	n/a	8/31/2022		No 350 n/a	n/a	6 n/a	n/a		NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26S	160	n/a	8/31/2022		No 350 n/a	n/a	6 n/a	n/a		NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27I	160	n/a	9/1/2022	2.5	No 350 n/a	n/a	6 n/a	n/a		NP Inter (normality) 1 of 2 NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27S YGWC-28I	160 160	n/a	9/1/2022 9/1/2022	13.5 7.6	No 350 n/a	n/a	6 n/a	n/a		NP Inter (normality) 1 of 2
Sulfate (mg/L) Sulfate (mg/L)	YGWC-28S	160	n/a n/a	9/1/2022	13.4	No 350 n/a No 350 n/a	n/a n/a	6 n/a 6 n/a	n/a n/a		NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-29I	160	n/a	9/1/2022	21.2	No 350 n/a	n/a	6 n/a	n/a		NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26I	209.3	n/a	8/31/2022		Yes 350 108.1	54.44	0.5714None	No	0.00004918	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26S	209.3	n/a	8/31/2022		No 350 108.1	54.44	0.5714None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27I	209.3	n/a	9/1/2022	193	No 350 108.1	54.44	0.5714None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27S	209.3	n/a	9/1/2022	124	No 350 108.1	54.44	0.5714None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28I	209.3	n/a	9/1/2022	186	No 350 108.1	54.44	0.5714None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	209.3	n/a	9/1/2022	225	Yes 350 108.1	54.44	0.5714None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-29I	209.3	n/a	9/1/2022	128	No 350 108.1	54.44	0.5714None	No	0.001075	Param Inter 1 of 2
(3 /				- '							

Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I

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 perconstituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 10/13/2022 3:49 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

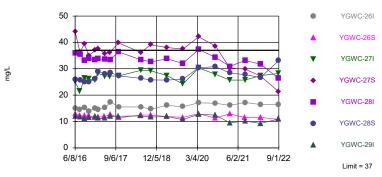
Prediction Limit Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-28S Interwell Non-parametric 30 YGWC-26I YGWC-26S YGWC-27I YGWC-27S YGWC-28I 6 YGWC-28S YGWC-29I 6/8/16 9/6/17 12/5/18 3/4/20 6/2/21 9/1/22 Limit = 12

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 = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit Interwell Non-parametric

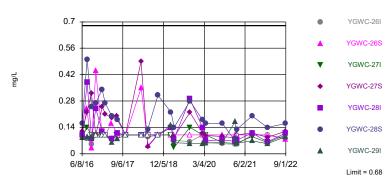


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 350 background values. 0.8571% NDs. Annual perconstituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 10/13/2022 3:49 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG Hollow symbols indicate censored values. Within Limit

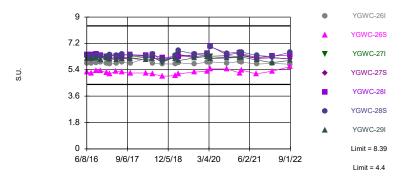
Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 419 background values. 65.63% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.0004918 (1 of 2). Comparing 7 points to limit.

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Within Limits Prediction Limit
Interwell Non-parametric



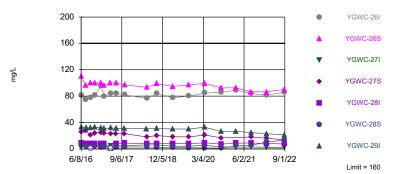
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to enon-normal at the 0.01 alpha level. Limits are highest and lowest of 429 background values. Annual perconstituent alpha = 0.001377. Individual comparison alpha = 0.0009836 (1 of 2). Comparing 7 points to limit.

Constituent: pH Analysis Run 10/13/2022 3:50 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG Hollow symbols indicate censored values. Within Limit

Prediction Limit
Interwell Non-parametric

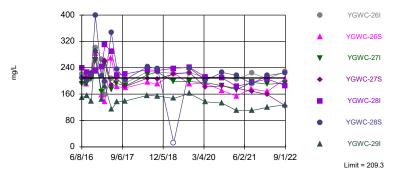


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 350 background values. 6% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Prediction Limit Exceeds Limit: YGWC-26I, YGWC-28S

Interwell Parametric



Background Data Summary: Mean=108.1, Std. Dev.=54.44, n=350, 0.5714% NDs. Normality test was disabled. Kappa = 1.859 (c=7, w=7, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.001075. Comparing 7 points to limit.

Constituent: Total Dissolved Solids Analysis Run 10/13/2022 3:50 PM View: Appendix III - Parametric Plant Yates Client: Southern Company Data: Yates Ash Pond 2

6	/1/2016	YGWA-3I (bg) <0.04	YGWA-1D (bg) <0.04	YGWA-1I (bg) <0.04	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5I (bg)
	/2/2016				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	/6/2016									
	/7/2016									
	/8/2016									
	/9/2016									
		-0.04		-0.04				-0.04		
	/25/2016	<0.04		<0.04				<0.04		
	/26/2016		0.0055 (J)		0.0177 (J)	0.0052 (J)	0.0047 (J)		0.0097 (J)	<0.04
	/27/2016									
	/28/2016									
	/1/2016									
	/2/2016									
	/30/2016									
8.	/31/2016									
9.	/13/2016		<0.04	<0.04						
9.	/14/2016	<0.04				0.0071 (J)	<0.04			0.01 (J)
9.	/15/2016				0.0214 (J)				0.0102 (J)	
9.	/16/2016									
9.	/19/2016							<0.04		
9.	/20/2016									
9.	/21/2016									
1	1/1/2016	<0.04	0.0086 (J)					<0.04	<0.04	
1	1/2/2016				<0.04	<0.04	<0.04			
1	1/3/2016									
1	1/4/2016			<0.04						<0.04
1	1/7/2016									
1	1/8/2016									
1	1/14/2016									
1	1/28/2016									
	2/15/2016									
	/10/2017				0.0198 (J)					
	/11/2017	<0.04	0.0074 (J)		. ,				<0.04	
	/12/2017		(-,			0.0076 (J)				<0.04
	/13/2017					(0)	<0.04			
	/16/2017			<0.04				<0.04		
	/18/2017									
	/19/2017									
	/21/2017							<0.04		
	/22/2017									
	/23/2017									
	/24/2017									
	/1/2017	<0.04								
	/2/2017	-0.04	0.008 (J)	<0.04					0.0084 (J)	
	/3/2017		0.000 (0)	-0.04					J.000+ (J)	
	/6/2017						<0.04			
	/7/2017					0.0089 (J)	-0.04			<0.04
					0.0180 (!\	0.0003 (3)				5U.UH
	/8/2017	-0.04			0.0189 (J)			-0.04	-0.04	
	/26/2017	<0.04	0.0066 (1)	-0.04	0.0161 (J)			<0.04	<0.04	
	/27/2017		0.0066 (J)	<0.04						
	/28/2017					0.0004 (1)	-0.04			
	/1/2017					0.0061 (J)	<0.04			.0.04
5.	/2/2017									<0.04

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		0.0087 (J)	0.006 (J)		0.0079 (J)				<0.04
6/28/2017	<0.04	0.0007 (0)	0.000 (0)		0.0073 (3)			<0.04	-0.04
	<0.04					.0.04		<0.04	
6/29/2017						<0.04			
6/30/2017				0.0173 (J)			<0.04		
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		0.0072 (J)	0.0071 (J)		0.0094 (J)				<0.04
10/4/2017	<0.04						<0.04	<0.04	
10/5/2017				0.0173 (J)		<0.04			
10/6/2017				(-)					
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018		0.0052 (J)							
6/6/2018		()	<0.04		0.0098 (J)				
6/7/2018					. ,	0.0045 (J)		0.004 (J)	<0.04
6/8/2018	<0.04			0.013 (J)		(4)		(5)	
6/11/2018	0.01			0.010(0)			0.014 (J)		
6/12/2018							0.014 (0)		
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					0.01 (J)	0.005 (J)			0.0057 (J)
10/1/2018	<0.04	0.021 (J)	0.0049 (J)	0.015 (J)				<0.04	
10/2/2018							<0.04		
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		0.005 (J)	<0.04						
3/29/2019		000 (0)	5.0.	0.014 (J)					
4/1/2019	<0.04			5.0 I T (0)			<0.04	<0.04	
7, 1/2013	-0.07						-0.07	-0.07	

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5I (bg)
4/2/2019									
4/3/2019					0.0076 (J)	0.0055 (J)			0.0044 (J)
6/12/2019									
9/24/2019		0.0064 (J)	0.0055 (J)		0.01 (J)				0.0049 (J)
9/25/2019	<0.04			0.018 (J)		<0.04	<0.04	0.0054 (J)	
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020			0.0087 (J)	0.02 (J)					
3/19/2020	0.0053 (J)	0.0085 (J)					0.0052 (J)	0.0073 (J)	
3/20/2020									
3/24/2020					0.011 (J)				0.0068 (J)
3/25/2020						0.011 (J)			
9/22/2020					0.0079 (J)	<0.04			0.0053 (J)
9/23/2020	0.0073 (J)	<0.04	<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				0.017 (J)	0.0068 (J)				0.011 (J)
3/3/2021	<0.04	<0.04	<0.04			0.0056 (J)		<0.04	
3/4/2021									
8/19/2021		<0.04	<0.04	0.018 (J)			<0.04	<0.04	
8/20/2021									
8/26/2021					0.009 (J)	<0.04			<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				0.02 (J)	0.011 (J)				<0.04
2/11/2022						<0.04	<0.04		
8/30/2022		<0.04			0.0098 (J)				<0.04
8/31/2022	<0.04		<0.04	0.015 (J)		<0.04	<0.04	<0.04	
9/1/2022									

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	<0.04	<0.04							
6/7/2016			<0.04	<0.04	<0.04				
6/8/2016						0.62	1.3	0.97	2.2
6/9/2016						0.02	1.0	0.57	2.2
7/25/2016									
7/26/2016									
7/27/2016	<0.04	0.0059 (J)	0.008 (J)		<0.04				
7/28/2016				<0.04					
8/1/2016						0.643	1.36	0.932	2
8/2/2016									
8/30/2016									
8/31/2016									
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				
9/20/2016						0.644	1.69	1.04	2.02
9/21/2016									
11/1/2016									
11/2/2016					<0.04				
11/3/2016	<0.04	0.0082 (J)	0.0077 (J)	<0.04					
11/4/2016		• •	. ,						
11/7/2016						0.621	1.35	0.852	1.91
11/8/2016						0.021		0.002	
11/14/2016									
11/28/2016									
12/15/2016 1/10/2017									
	-0.04	0.0000 (1)	0.0000 (1)						
1/11/2017	<0.04	0.0096 (J)	0.0092 (J)						
1/12/2017									
1/13/2017				<0.04	<0.04				
1/16/2017									
1/18/2017						0.607		0.972	1.69
1/19/2017							1.15		
2/21/2017						0.624		0.972	
2/22/2017							1.3		
2/23/2017									1.76
2/24/2017									
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						

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
5/3/2017						0.676			
5/5/2017									
5/8/2017							1.51	1.05	2
5/26/2017									
6/27/2017									
	.0.04	0.0070 (1)							
6/28/2017	<0.04	0.0079 (J)							
6/29/2017			0.0074 (J)	<0.04	<0.04				
6/30/2017							1.47		2.28
7/5/2017									
7/7/2017									
7/10/2017						0.58		0.855	
7/11/2017									
7/17/2017									
				<0.04					
10/3/2017				<0.04					
10/4/2017		0.009 (J)	0.0077 (J)		<0.04				
10/5/2017	<0.04								
10/6/2017							1.31		
10/9/2017									1.82
10/10/2017						0.612		0.887	
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
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)						
6/12/2018							1.6		
6/13/2018						0.67		0.86	2.2
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	0.0046 (J)	0.007 (J)	0.0096 (J)	0.0054 (J)	<0.04				
9/26/2018									
10/1/2018									
10/2/2018						0.62	1.4	0.93	1.9
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
							1.4		2.4
4/1/2019							1.4		2.4

4/2/2019	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg) 0.0066 (J)	YGWA-21I (bg) 0.011 (J)	YGWA-20S (bg)	YGWC-26S 0.63	YGWC-27S	YGWC-26I 0.9	YGWC-27I
4/3/2019	<0.04	0.0053 (J)	0.0000 (3)	0.011 (0)	<0.04	0.03		0.5	
6/12/2019		(-)							
9/24/2019				0.018 (J)					
9/25/2019			0.0081 (J)	(5)	<0.04	0.63		0.86	
9/26/2019	0.0062 (J)	0.0072 (J)					1.5		1.9
10/8/2019	,	. ,							
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020						0.73			
3/20/2020							1.4	0.94	2.1
3/24/2020	0.0054 (J)	0.01 (J)	0.0092 (J)	0.016 (J)	<0.04				
3/25/2020									
9/22/2020									
9/23/2020	0.021 (J)	0.006 (J)	0.0066 (J)						
9/24/2020				0.013 (J)	0.0094 (J)	0.74	1.3	0.76	2.3
9/25/2020									
3/1/2021									
3/2/2021						0.57			
3/3/2021	<0.04	0.0094 (J)	0.01 (J)		<0.04		1.2	0.69	2
3/4/2021				0.0079 (J)					
8/19/2021						0.71			
8/20/2021							1.2	0.72	2.5
8/26/2021		<0.04							
8/27/2021	<0.04		0.011 (J)		<0.04				
9/1/2021				<0.04					
9/3/2021									
2/8/2022							1.1		
2/9/2022	<0.04	<0.04	0.0098 (J)	<0.04	<0.04				
2/10/2022						0.79		0.79	2.5
2/11/2022									
8/30/2022	<0.04	0.014 (J)	0.013 (J)	0.012 (J)					
8/31/2022					<0.04	0.7		0.64	
9/1/2022							1		2.3

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	2.3	0.88	2.2					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	2.21	0.872	2.22					
8/30/2016				0.0166 (J)				
8/31/2016					0.0315 (J)			
9/13/2016					. ,			
9/14/2016						<0.04		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	2.54	0.853	2.65					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						<0.04		
11/7/2016	2.49	0.815				0.01		
11/8/2016	2.10	0.0.0	2.44					
11/14/2016				0.0166 (J)				
11/28/2016				0.0.00 (0)	0.0095 (J)			
12/15/2016					0.0000 (0)	0.0107 (J)		
1/10/2017						0.0107 (0)		
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						<0.04		
1/18/2017	2.04		1.88			10.04		
1/19/2017	2.04	0.803	1.00					
2/21/2017	2.29	0.003						
2/22/2017	2.20	0.855	2.05		<0.04			
2/23/2017		0.000	2.00		10.04			
2/24/2017				0.0145 (J)				
3/1/2017				0.0143 (3)				
3/2/2017								
3/3/2017						<0.04		
3/6/2017						~0.04		
3/7/2017								
3/8/2017								
4/26/2017								
4/25/2017								
4/27/2017						<0.04		
5/1/2017						~ U.U4		
5/2/2017								

		YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5	5/3/2017					, ,,	, ,	, ,,	, ,
	5/5/2017	3.41		3.01					
	5/8/2017		0.884		0.0141 (J)	0.0084 (J)			
	5/26/2017		0.001		0.0111 (0)	0.000 . (0)	<0.04		
	5/27/2017						-0.04		
	5/28/2017						<0.04		
	5/29/2017						\0.04		
	5/30/2017		0.011	0.7					
	7/5/2017	2.01	0.811	2.7					
	7/7/2017	3.01							
	7/10/2017				0.0101 (1)				
	7/11/2017				0.0131 (J)	0.0000 (1)			
	//17/2017					0.0092 (J)			
	0/3/2017						<0.04		
	0/4/2017								
	0/5/2017		0.851	2.53					
	0/6/2017								
	0/9/2017	2.76							
	0/10/2017				0.0124 (J)				
	0/11/2017							0.0135 (J)	
	0/12/2017								0.0401
1	0/16/2017					<0.04			
	1/20/2017							0.0251 (J)	0.156
1	/10/2018								0.15
1	/11/2018							0.0255 (J)	
2	2/19/2018					<0.04			0.146
2	2/20/2018							<0.04	
4	/2/2018				0.013 (J)				
4	/3/2018							0.033 (J)	0.12
6	5/5/2018								
6	5/6/2018								
6	5/7/2018						<0.04		
6	5/8/2018								
6	6/11/2018		0.9						
6	5/12/2018	2.9		2.8					
6	6/13/2018								
6	6/28/2018							0.053	0.16
8	3/6/2018					<0.04			
8	3/7/2018							0.024 (J)	0.12
g	9/19/2018				0.012 (J)				
9	0/24/2018							0.028 (J)	0.099
g)/25/2018								
9)/26/2018								
1	0/1/2018						<0.04		
	0/2/2018		0.81						
	0/3/2018	2.4		2.3					
	2/25/2019					<0.04			
	3/26/2019								0.096
	3/27/2019				0.013 (J)			0.017 (J)	
	3/28/2019				. ,			.,	
	3/29/2019						0.0065 (J)		
	/1/2019		0.85	2.7			(3)		
			- 	-					

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019	2.9							
4/3/2019								
6/12/2019					<0.04			
9/24/2019						0.0076 (J)		
9/25/2019		0.73						
9/26/2019	2.5		2.8					
10/8/2019				0.012 (J)	<0.04			
10/9/2019							0.017 (J)	0.079
3/17/2020				0.023 (J)	0.0051 (J)			
3/18/2020								
3/19/2020	2.5		2.4			0.0073 (J)		
3/20/2020		0.8						
3/24/2020								0.088 (J)
3/25/2020							0.043 (J)	
9/22/2020				0.0076 (J)	0.0079 (J)			
9/23/2020						<0.04		
9/24/2020	2.6	0.84	2.1				0.037 (J)	0.087 (J)
9/25/2020								
3/1/2021				0.013 (J)				
3/2/2021					<0.04			
3/3/2021	2.3	0.62	1.8			<0.04		
3/4/2021							0.033 (J)	0.078
8/19/2021				0.011 (J)				
8/20/2021	2.5	0.66	2.3		<0.04			
8/26/2021							0.095	
8/27/2021						<0.04		
9/1/2021								
9/3/2021								0.077
2/8/2022	2.4	0.71	2.4	0.015 (J)	<0.04		0.13	0.074
2/9/2022						<0.04		
2/10/2022								
2/11/2022								
8/30/2022					<0.04	<0.04		
8/31/2022				0.0091 (J)			0.14	0.062
9/1/2022	2.2	0.71	1.8					

		YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5I (bg)
6/1	/2016	21	12	2.5						
6/2	2/2016				1.3	33	8.8	1.3	28	2.4
6/6	5/2016									
6/7	7/2016									
6/8	3/2016									
6/9	9/2016									
7/2	25/2016	20.3		2.16				1.17		
7/2	26/2016		11		1.24	32.3	7.69		24.5	2.12
7/2	27/2016									
7/2	28/2016									
8/1	/2016									
8/2	2/2016									
8/3	80/2016									
8/3	31/2016									
9/1	3/2016		11.8	2.21						
9/1	4/2016	19.7				31	8.49			2.18
9/1	5/2016				1.17				27	
9/1	6/2016									
9/1	9/2016							1.05		
9/2	20/2016									
9/2	21/2016									
11/	/1/2016	18.4	11					1.14	25.6	
11/	/2/2016				1.23	30.9	7.83			
	/3/2016									
	/4/2016			2.67						2.17 (J)
	/7/2016									,,
	/8/2016									
	/14/2016									
	/28/2016									
	/15/2016									
	0/2017				1.24					
	1/2017	20.3	11.2						27.5	
	2/2017					35.7				2.37
	3/2017						8.08			
	6/2017			2.45				1.23		
	8/2017									
	9/2017									
2/2	21/2017							1.25		
	22/2017									
	23/2017									
	24/2017									
	/2017	18.6								
3/2	2/2017		11	2.57					27.5	
3/3	3/2017									
	6/2017						8.64			
	7/2017					32.7				2.34
	3/2017				1.21					
	26/2017	25.6			1.14			1.03	30.4	
	27/2017		11.1	2.38						
	28/2017									
	/2017					37	13.4			
	2/2017									2.17

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		13.8	2.36		36.5				2.13
6/28/2017	23.9							29.8	
6/29/2017						8.81			
6/30/2017				1.24			1.13		
7/5/2017				1.24			1.10		
7/3/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		14	2.21		30.9				2.15
10/4/2017	22.1						1.09	29.7	
10/5/2017				1.11		9.29			
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018		15.2 (J)							
6/6/2018			2.3		26.2				
6/7/2018						8.2		29.1	2.3
6/8/2018	21.9 (J)			1.1					
6/11/2018							1.1		
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					25.8	9.5 (J)			2.3
10/1/2018	19.7	15.1	1.8	0.99		. ,		26.9	
10/2/2018	-	-	-				1.1		
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019		12.2 / 15	2.2						
3/28/2019		13.3 (J)	2.2						
3/29/2019	00.475			1.1			1.0	00.4	
4/1/2019	20.4 (J)						1.3	30.1	

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5I (bg)
4/2/2019									
4/3/2019					24.7 (J)	8.4			2.8
6/12/2019									
9/24/2019		15.8	2.3		25.8				2.5
9/25/2019	22.4			1.1		9.5	1.1	29.5	
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020			2.1	1.1					
3/19/2020	21.9	15					1.2	31.5	
3/20/2020									
3/24/2020					26.1				2.5
3/25/2020						10.5			
9/22/2020					27.2	9.6			2.6
9/23/2020	23.6	14.1	1.8					28.6	
9/24/2020							1.1		
9/25/2020				1.3					
3/1/2021							1.2		
3/2/2021				1.2	1.6				2.6
3/3/2021	20.6	14.1	1.8			7.7		29.8	
3/4/2021									
8/19/2021		14.2	2	1.2			1.2	28.1	
8/20/2021									
8/26/2021					25.2	7.6			2.5
8/27/2021	24.7								
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	23.7	14.9	2.1					30.3	
2/10/2022				1.3	24.8				2.5
2/11/2022						7.5	1.5		
8/30/2022		14.9			24.8				2.5
8/31/2022	23.5		1.9	1.3		8.9	1.3	28.7	
9/1/2022									

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	6.2	1.4							
6/7/2016			2.2	3.7	2.3				
6/8/2016			2.2	0.7	2.0	13	44	15	25
6/9/2016						15	77	15	20
7/25/2016									
7/26/2016									
7/27/2016	4.73	1.19	2		2.08				
7/28/2016				3.15					
8/1/2016						12.2	36.3	14.5	21.4
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		1.5	1.97						
9/19/2016	4.76			3.17	1.97				
9/20/2016						12.2	39.5	15.3	26.3
9/21/2016									
11/1/2016									
11/2/2016					2.13				
11/3/2016	5.25	1.31	1.99	3.4	2.10				
11/4/2016	5.25	1.51	1.55	5.4					
11/7/2016						12.1	34.9	13.8	26.1
						12.1	34.9	13.0	20.1
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	4.74	1.25	2.28						
1/12/2017									
1/13/2017				4.98	2.45				
1/16/2017									
1/18/2017						11.5		15.1	25.6
1/19/2017							37		
2/21/2017						11.7		14.6	
2/22/2017							37.6		
2/23/2017									28.2
2/24/2017									
3/1/2017	5.37	1.26							
3/2/2017			2.15						
3/3/2017									
3/6/2017				6.28	2.48				
3/7/2017									
3/8/2017									
4/26/2017	4.28	1.05		6.65	2.3				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			1.95						

		YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
!	5/3/2017						11.9			
	5/5/2017									
!	5/8/2017							35.7	15.2	27.2
!	5/26/2017									
	6/27/2017									
	6/28/2017	4.95	1.06							
	6/29/2017			2.02	6.04	2.54				
	6/30/2017							36.2		27.2
	7/5/2017									
	7/7/2017									
	7/10/2017						12.7		17.4	
	7/11/2017									
	7/17/2017									
	10/3/2017				8.28					
	10/4/2017		1.1	2.03	0.20	2.25				
	10/5/2017	5.28		2.00		2.20				
	10/6/2017	5.20						39.8		
	10/9/2017							33.0		27.3
	10/9/2017						11.4		15.5	27.3
	10/10/2017						11.4		15.5	
	10/11/2017									
	10/16/2017									
	11/20/2017									
	1/10/2018									
	1/11/2018									
	2/19/2018									
	2/20/2018									
	4/2/2018									
	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						
	6/12/2018							36.2		
	6/13/2018						12.5		15.5	29.4
	6/28/2018									
	8/6/2018									
	8/7/2018									
	9/19/2018									
	9/24/2018									
	9/25/2018	4.6	1	2.1	10.4 (J)	2.3				
	9/26/2018									
	10/1/2018									
	10/2/2018						12.4 (J)	39.1	14.7	29.2
	10/3/2018									
	2/25/2019									
	3/26/2019									
	3/27/2019									
	3/28/2019									
	3/29/2019									
	4/1/2019							38		27.4

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
4/2/2019			2.5	8.8		11.9 (J)		16.1 (J)	
4/3/2019	5.3	1.2			2.9				
6/12/2019									
9/24/2019				7.7					
9/25/2019			2.6		2.4	11.6		15.6	
9/26/2019	4.9	1.1					37.5		24.2
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020						13			
3/20/2020							42.1	17.1	30.3
3/24/2020	5.3	1	2.7	6	2.6				
3/25/2020									
9/22/2020									
9/23/2020	5.2	0.91 (J)	2.6						
9/24/2020				7.8	2.6	11.3	38.6	16.9	27.9
9/25/2020									
3/1/2021									
3/2/2021						12.9			
3/3/2021	5.2	0.96 (J)	2.5		2.4		30.2	16.1	25.7
3/4/2021				8.7					
8/19/2021						11.5			
8/20/2021							29.9	17.2	25.7
8/26/2021		0.98 (J)							
8/27/2021	5.1		2.7		2.4				
9/1/2021				9.5					
9/3/2021									
2/8/2022							27.2		
2/9/2022	5.1	0.87 (J)	2.8	9.8	2.3				
2/10/2022						11.6		16.4	27.4
2/11/2022									
8/30/2022	5.7	0.77 (J)	3	7.3					
8/31/2022					2.4	10.8		16.4	
9/1/2022							21.3		28.2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016	26	12	36						
7/25/2016	5								
7/26/2016	5								
7/27/2016	5								
7/28/2016	5								
8/1/2016									
8/2/2016	25.8	11.7	35.5						
8/30/2016	5			20.9					
8/31/2016	3				9.31				
9/13/2016	3								
9/14/2016	3					23.5			
9/15/2016	3								
9/16/2016	3								
9/19/2016	3								
9/20/2016	3								
9/21/2016	3 24.9	11.1	33.2						
11/1/2016	3								
11/2/2016	3								
11/3/2016	3								
11/4/2016	3					23.7			
11/7/2016	3 25.1	11.4							
11/8/2016	3		33.8						
11/14/201	16			18.6					
11/28/201	16				9.47 (B)				
12/15/201	16					23.1			
1/10/2017	7								
1/11/2017	7								
1/12/2017	7								
1/13/2017	7								
1/16/2017	7					23.3			
1/18/2017	7 26.1		33.4						
1/19/2017	7	12							
2/21/2017	7 29								
2/22/2017	7	11.2	33.8		10.4				
2/23/2017	7								
2/24/2017	7			16.1					
3/1/2017									
3/2/2017									
3/3/2017						25.1			
3/6/2017									
3/7/2017									
3/8/2017									
4/26/2017	7								
4/27/2017	7								
4/28/2017	7					30.7			
5/1/2017									
5/2/2017									

 $\label{lem:constituent: Calcium (mg/L)} \begin{array}{ccc} \text{Canalysis Run 10/13/2022 3:52 PM} & \text{View: Appendix III} \\ \text{Plant Yates} & \text{Client: Southern Company} & \text{Data: Yates Ash Pond 2} \\ \end{array}$

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	28.1		33.5					
5/8/2017		11.2		14.6	14.2			
5/26/2017						26.2		
6/27/2017								
6/28/2017						26.1		
6/29/2017								
6/30/2017								
7/5/2017		11.9	33.4					
7/7/2017	28.6							
7/10/2017								
7/11/2017				14.3				
7/17/2017					14.1			
10/3/2017						26.7		
10/4/2017								
10/5/2017		12	36.4					
10/6/2017								
10/9/2017	27.3							
10/10/2017				12.1				
10/11/2017							2.74	
10/12/2017								2.9
10/16/2017					13.6			
11/20/2017							1.81	10.4
1/10/2018								10.2
1/11/2018							1.54	
2/19/2018					<25			<25
2/20/2018							1.71	
4/2/2018				<25				
4/3/2018							1.4	6.3
6/5/2018								
6/6/2018								
6/7/2018						25		
6/8/2018								
6/11/2018		12.1						
6/12/2018	26.4		33.4					
6/13/2018								
6/28/2018							1.4	6.7
8/6/2018					11.4 (J)			
8/7/2018					. ,		1.2	6.3
9/19/2018				11.1 (J)				
9/24/2018				(5)			1.1	5.7
9/25/2018								-
9/26/2018								
10/1/2018						25		
10/2/2018		11.7 (J)				20		
10/3/2018	25.8	, (0)	32.6					
2/25/2019	20.0		52.0		12.7 (J)			
3/26/2019					, (0)			5.6
3/27/2019				10.8 (J)			1.5	
3/28/2019				(0)				
3/29/2019						23.5 (J)		
4/1/2019		11.9 (J)	33.8			20.0 (0)		
7/1/2013		11.5 (5)	55.0					

 $\label{lem:constituent: Calcium (mg/L)} \begin{array}{ccc} \text{Canalysis Run 10/13/2022 3:52 PM} & \text{View: Appendix III} \\ \text{Plant Yates} & \text{Client: Southern Company} & \text{Data: Yates Ash Pond 2} \\ \end{array}$

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019	25.7							
4/3/2019								
6/12/2019					18.9			
9/24/2019						26.4		
9/25/2019		10.7						
9/26/2019	26.1		32					
10/8/2019				9.7	28.3			
10/9/2019							2.4	4.9
3/17/2020				14.8	24.3			
3/18/2020								
3/19/2020	30.4		37.3			27.4		
3/20/2020		12.7						
3/24/2020								4.8
3/25/2020							2.7	
9/22/2020				10.1	31			
9/23/2020						26.3		
9/24/2020	30.8	12.4	34.3				3.7	4.4
9/25/2020								
3/1/2021				10.3				
3/2/2021					34.2			
3/3/2021	28.4	9.5	30.9			25.6		
3/4/2021							8.2	4.6
8/19/2021				9.6				
8/20/2021	27.8	10.2	33.1		26.5			
8/26/2021							14.1	
8/27/2021						22.6		
9/1/2021								
9/3/2021								5.6
2/8/2022	26.7	9.3	31.8	9.4	25.6		15.2	6
2/9/2022						23.4		
2/10/2022								
2/11/2022								
8/30/2022					23.5	25.4		
8/31/2022				9.6			16.3	6.2
9/1/2022	33.1	11	26.3					

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5I (bg)
6/1/2016	1.3	1.3	1.6						
6/2/2016				4.1	7.2	3.7	1.9	1.4	4.3
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	1.3		1.4				1.7		
7/26/2016		1.2		4	6.6	3.6		1.6	4.4
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016		1.1	1.3						
9/14/2016	1.3				6.6	3.4			3.8
9/15/2016				4.2				1.5	
9/16/2016									
9/19/2016							1.6		
9/20/2016							1.0		
9/21/2016									
11/1/2016	1.4	1.3					1.8	1.7	
11/2/2016	1.4	1.5		4.9	7.6	4.5	1.0	1.7	
				4.9	7.0	4.5			
11/3/2016			1.0						4.0
11/4/2016			1.6						4.8
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				4.1					
1/11/2017	1.1	1.1						1.2	
1/12/2017					6.8				3.8
1/13/2017						4.2			
1/16/2017			1.4				1.7		
1/18/2017									
1/19/2017									
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					6.8				4.5
3/8/2017				4.2					
4/26/2017	1.1			4.1			1.7	1.2	
4/27/2017		1	1.3						
4/28/2017									
5/1/2017					7.2	4.3			
5/2/2017									4.6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5I (bg)
5/3/2017	(-9)	(-9)	(-9)	(-3)	(-9)	(-9)		(-9)	(-9)
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		1.1	1.4		7				4.3
6/28/2017	1.2							1.3	
6/29/2017						4.2			
6/30/2017				3.7			1.8		
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		1.1	1.7		6.5				4.2
10/4/2017	1.2	1.1	1.7		0.5		1.8	1.5	7.2
	1.2			2.0		4.7	1.0	1.5	
10/5/2017				3.8		4.7			
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017	7								
10/12/2017	7								
10/16/2017	7								
11/20/2017	7								
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018		1.1							
		1.1	1.4		4.7				
6/6/2018			1.4		4.7			4.0	4.5
6/7/2018						4.4		1.2	4.5
6/8/2018	1.2			3.4					
6/11/2018							2		
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					4.8	4.8			5.1
10/1/2018		1.1	1.4	3.8				1.5	
10/2/2018							1.8		
10/3/2018							-		
2/25/2019									
3/26/2019									
3/27/2019		4.4	4.5						
3/28/2019		1.4	1.5						
3/29/2019				4.2					
4/1/2019	1.1						1.7	1.2	

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5I (bg)
4/2/2019									
4/3/2019					4	4.3			4.2
6/12/2019									
9/24/2019		1.1	1.3		3.7				4.5
9/25/2019	1.1			4.8		4.5	1.6	1.1	
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020			1.4	5.2					
3/19/2020	1.1	1.1					1.8	1.2	
3/20/2020									
3/24/2020					3.5				4.3
3/25/2020						3.9			
9/22/2020					3.6	4.5			4.2
9/23/2020	1	0.99 (J)	1.2					1.1	
9/24/2020							1.5		
9/25/2020				5.3					
3/1/2021							1.6		
3/2/2021				4.9	3.2				4.3
3/3/2021	0.99 (J)	0.96 (J)	1.2			4.1		1.1	
3/4/2021									
8/19/2021		1.1	1.3	5			1.6	1.1	
8/20/2021									
8/26/2021					3.4	4.4			4.3
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				4.7	3.2				4.4
2/11/2022						4.1	2.1		
8/30/2022		1.3			3.5				4.4
8/31/2022	1.3		1.5	4.6		4.4	1.8	1.3	
9/1/2022									

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	6.8	6.4							
6/7/2016			4.5	2.8	1.9				
6/8/2016						18	22	19	14
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	6.7	6.2	4.5		1.9				
7/28/2016	0.7	0.2	4.5	2.6	1.9				
				2.0		16	21	17	12
8/1/2016						16	21	17	13
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		6.1	4.5						
9/19/2016	7			2.4	1.9				
9/20/2016						18	22	18	13
9/21/2016									
11/1/2016									
11/2/2016					2.6				
11/3/2016	7.5	7.4	5.4	2.9					
11/4/2016									
11/7/2016						16	24	17	14
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	6.5	6.1	4.7						
1/12/2017									
1/13/2017				2.5	2.3				
1/16/2017									
1/18/2017						17		19	14
1/19/2017							22		
2/21/2017						16		18	
2/22/2017							21		
2/23/2017									14
2/24/2017									
3/1/2017	6.9	6							
3/2/2017			4.8						
3/3/2017									
3/6/2017				2.1	1.9				
3/7/2017									
3/8/2017									
4/26/2017	7	6.5		2.1	2				
4/27/2017	,	0.0		۷. ۱	2				
4/28/2017									
5/1/2017			4.6						
5/2/2017			4.6						

	Υ	'GWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
5/3/2017							17			
5/5/2017										
5/8/2017								22	18	14
5/26/2017	,									
6/27/2017										
6/28/2017			6.4							
6/29/2017				4.5	2.8	2.6				
6/30/2017				4.5	2.0	2.0		21		14
								21		14
7/5/2017										
7/7/2017	_									
7/10/2017							15		19	
7/11/2017										
7/17/2017										
10/3/2017	,				2.2					
10/4/2017	7		6.8	4.7		2.6				
10/5/2017	7 7									
10/6/2017	,							21		
10/9/2017	,									14
10/10/201	17						15		19	
10/11/201	17									
10/12/201	17									
10/16/201										
11/20/201										
1/10/2018										
1/11/2018										
2/19/2018										
2/20/2018										
4/2/2018	,									
4/3/2018					4.7					
6/5/2018					1.7	0.7				
6/6/2018						2.7				
6/7/2018	6	.8								
6/8/2018										
6/11/2018			6.8	4.9						
6/12/2018								19.8		
6/13/2018	3						14.2		18.1	13.1
6/28/2018	3									
8/6/2018										
8/7/2018										
9/19/2018	3									
9/24/2018	3									
9/25/2018	3 7	.9	7.8	5.6	2.2	3.6				
9/26/2018										
10/1/2018										
10/2/2018							14	19.9	18.3	13.8
10/3/2018										
2/25/2019										
3/26/2019										
3/27/2019										
3/28/2019										
3/29/2019										
	,							10.7		14.2
4/1/2019								19.7		14.2

4/0/0040	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
4/2/2019 4/3/2019	6.9	6.3	4.8	2.5	3.1	13.5		17.9	
6/12/2019	6.9	0.3			3.1				
9/24/2019				3.1					
9/24/2019			5.7	3.1	2.8	14.4		17.1	
9/26/2019	7	7.1	5.7		2.0	14.4	19.6	17.1	14.3
10/8/2019	,	7.1					15.0		14.5
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020						15.4			
3/20/2020							17.7	17.7	13
3/24/2020	7	6.8	5	2.8	2.7				
3/25/2020									
9/22/2020									
9/23/2020	7.2	7.2	6.6						
9/24/2020				2	2.7	15.7	17	17.1	13.3
9/25/2020									
3/1/2021									
3/2/2021						13.2			
3/3/2021	7	7.2	7.1		2.7		4	16.6	13
3/4/2021				1.8					
8/19/2021						13.5			
8/20/2021							15.2	14.4	13.7
8/26/2021		7.3							
8/27/2021	7.4		8.5		2.8				
9/1/2021				1.8					
9/3/2021									
2/8/2022							13		
2/9/2022	7.5	7	10.9	1.7	2.8				
2/10/2022						14		15.4	13.1
2/11/2022									
8/30/2022	7.9	7	12	2.4					
8/31/2022					2.9	15		16.6	
9/1/2022							10.4		13.4

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016	19	15	18						
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016	18	14	18						
8/30/2016				5.2					
8/31/2016					4				
9/13/2016									
9/14/2016						1.1			
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
9/21/2016	19	14	18						
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016						1.4			
11/7/2016	20	14							
11/8/2016			18						
11/14/2016				6.4					
11/28/2016					4.2				
12/15/2016						2.9			
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017						0.98			
1/18/2017	20		18						
1/19/2017		14							
2/21/2017	19								
2/22/2017		13	18		3.7				
2/23/2017									
2/24/2017				5.5					
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									

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	21		19					
5/8/2017		15		5.8	4.2			
5/26/2017						0.93		
6/27/2017								
6/28/2017						1		
6/29/2017								
6/30/2017								
7/5/2017		14	18					
7/7/2017	20							
7/10/2017								
7/11/2017				5.8				
7/17/2017					3.8			
10/3/2017						1.2		
10/4/2017								
10/5/2017		15	19					
10/6/2017								
10/9/2017	20							
10/10/2017				5.9				
10/11/2017							2.4	
10/12/2017								3.8
10/16/2017					4.2			
11/20/2017							1.8	4.4
1/10/2018								4.6
1/11/2018							1.6	
2/19/2018					4.3			4.6
2/20/2018							2	
4/2/2018				4.8				
4/3/2018							3.3	5.9
6/5/2018								
6/6/2018								
6/7/2018						1		
6/8/2018								
6/11/2018		13.6						
6/12/2018	19.3		17.6					
6/13/2018								
6/28/2018							2.1	5
8/6/2018					3.8			
8/7/2018							1.2	4.3
9/19/2018				4				
9/24/2018							1.3	4.9
9/25/2018								
9/26/2018								
10/1/2018		10.4				1.1		
10/2/2018	20.2	13.4	177					
10/3/2018	20.2		17.7		4.1			
2/25/2019					4.1			4.4
3/26/2019 3/27/2019				4.3			1.4	4.4
3/28/2019				4.5			1.4	
3/29/2019						1.2		
4/1/2019		13.1	17.2			1.4		
4/1/2019		13.1	17.2					

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019	19.5							
4/3/2019								
6/12/2019					4.7			
9/24/2019						0.95 (J)		
9/25/2019		11.3						
9/26/2019	19.5		17.3					
10/8/2019				4.4	5.1			
10/9/2019							2.1	5.1
3/17/2020				4.1	4.8			
3/18/2020								
3/19/2020	18.1		16			0.97 (J)		
3/20/2020		11.3						
3/24/2020								4.7
3/25/2020							1.9	
9/22/2020				4.2	4.2			
9/23/2020						0.88 (J)		
9/24/2020	18	10.9	15.1				2.7	5
9/25/2020								
3/1/2021				3.7				
3/2/2021					4.1			
3/3/2021	18	6.7	14.6			0.86 (J)		
3/4/2021							4.9	4.9
8/19/2021				3.5				
8/20/2021	18.1	6.8	15.2		5.2			
8/26/2021							7.2	
8/27/2021						0.99 (J)		
9/1/2021								
9/3/2021								5.5
2/8/2022	18.3	5.5	15.2	3.2	5.7		7.4	6.2
2/9/2022						1 (J)		
2/10/2022								
2/11/2022								
8/30/2022					6.3	1.2		
8/31/2022				3.5			6.7	6.3
9/1/2022	16.5	8.1	10.4					

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016	0.15 (J)	<0.1	0.12 (J)						
6/2/2016				<0.1	<0.1	0.62	<0.1	0.11 (J)	<0.1
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	0.14 (J)	0.06 (J)					0.06 (J)		
7/26/2016			0.08 (J)	0.02 (J)	<0.1	0.49		0.05 (J)	<0.1
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016		<0.1	0.11 (J)						
9/14/2016					<0.1			0.04 (J)	<0.1
9/15/2016				<0.1		0.54		. ,	
9/16/2016									
9/19/2016							<0.1		
9/20/2016									
9/21/2016									
11/1/2016			<0.1			0.68	<0.1		
11/2/2016				<0.1	<0.1			<0.1	
11/3/2016				· · ·	0				
11/4/2016		<0.1							<0.1
11/7/2016		-0.1							-0.1
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				<0.1					
1/11/2017			0.05 (1)	<0.1		0.49			
			0.05 (J)			0.49		0.04 (1)	-0.1
1/12/2017					-0.4			0.04 (J)	<0.1
1/13/2017		-0.1			<0.1		-0.1		
1/16/2017		<0.1					<0.1		
1/18/2017									
1/19/2017 2/21/2017							-0.1		
							<0.1		
2/22/2017									
2/23/2017									
2/24/2017 3/1/2017	<0.1								
	<0.1	-0.1	<0.1			0.49			
3/2/2017		<0.1	~ 0.1			0.48			
3/3/2017					<0.1				
3/6/2017					<0.1			-0.1	-0.1
3/7/2017				-0.1				<0.1	<0.1
3/8/2017	0.08 / 15			<0.1		0.49	-0.1		
4/26/2017		0.01 (1)	0.04 (1)	<0.1		0.48	<0.1		
4/27/2017		0.01 (J)	0.04 (J)						
4/28/2017					-0.1			-0.1	
5/1/2017					<0.1			<0.1	-0.1
5/2/2017									<0.1

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
		-0.1	<0.1					-0.1	√ 0.1
6/27/2017	0.40 (1)	<0.1	<0.1			0.47		<0.1	<0.1
6/28/2017	0.12 (J)					0.47			
6/29/2017					<0.1				
6/30/2017				<0.1			<0.1		
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		<0.1	<0.1					<0.1	<0.1
10/4/2017	<0.1					<0.1	<0.1		
10/5/2017				<0.1	<0.1				
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/11/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
3/27/2018		<0.1		<0.1			<0.1		
3/28/2018	<0.1					0.56			
3/29/2018			<0.1		<0.1			<0.1	<0.1
3/30/2018									
4/2/2018									
4/3/2018									
6/5/2018			0.055 (J)						
6/6/2018		<0.1						0.15 (J)	
6/7/2018					<0.1	0.48			<0.1
6/8/2018	0.2 (J)			<0.1					
6/11/2018	. ,						<0.1		
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					<0.1			<0.1	<0.1
10/1/2018	<0.1	<0.1	<0.1	<0.1		0.44			
10/2/2018							<0.1		
10/3/2018									
2/25/2019									
2/26/2019				<0.1			<0.1		

	2/27/2010	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
	2/27/2019	0.13 (J)	<0.1	0.052 (J)		-0.1	0.53		0.10 (1)	~0.1
	3/4/2019					<0.1			0.19 (J)	<0.1
	3/5/2019									
	3/6/2019									
	3/26/2019									
	3/27/2019									
	3/28/2019		<0.1	0.036 (J)						
:	3/29/2019				<0.1					
	4/1/2019	0.1 (J)					0.45	<0.1		
	4/2/2019									
	4/3/2019					<0.1			0.047 (J)	<0.1
	6/12/2019									
;	8/19/2019									
;	8/20/2019									
:	8/21/2019									
:	9/24/2019		<0.1	0.063 (J)					0.05 (J)	<0.1
:	9/25/2019	0.1 (J)			<0.1	<0.1	0.46	<0.1		
	9/26/2019									
	10/8/2019									
	10/9/2019									
	2/10/2020		<0.1	0.061 (J)						
	2/11/2020	0.094 (J)		(-)						
	2/12/2020	(0)			<0.1	<0.1	0.4	<0.1	<0.1	<0.1
	2/13/2020							0		
	3/17/2020									
	3/18/2020		<0.1		<0.1					
	3/19/2020	0.11 (J)	~0.1	0.064 (J)	~0.1		0.51	<0.1		
	3/20/2020	0.11 (3)		0.004 (3)			0.51	~0.1		
									-0.1	-0.1
	3/24/2020								<0.1	<0.1
	3/25/2020					<0.1				
	8/26/2020									
	8/27/2020									
	9/22/2020					<0.1			0.056 (J)	<0.1
	9/23/2020	0.098 (J)	<0.1	0.058 (J)			0.47			
	9/24/2020							<0.1		
	9/25/2020				<0.1					
	2/8/2021								0.055 (J)	<0.1
	2/9/2021					<0.1				
	2/10/2021	<0.1			<0.1		0.43			
:	2/11/2021							<0.1		
:	2/12/2021		<0.1	0.068 (J)						
:	3/1/2021							<0.1		
:	3/2/2021				<0.1				<0.1	<0.1
;	3/3/2021	0.1	<0.1	0.078 (J)		<0.1	0.44			
;	3/4/2021									
	8/19/2021		<0.1	0.074 (J)	<0.1		0.47	<0.1		
:	8/20/2021									
:	8/26/2021					<0.1			0.061 (J)	<0.1
	8/27/2021	0.12								
	9/1/2021									
	9/3/2021									
	2/8/2022									

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
2/9/2022	0.097 (J)	<0.1	0.057 (J)			0.43			
2/10/2022				<0.1				0.055 (J)	<0.1
2/11/2022					<0.1		<0.1		
8/30/2022			0.093 (J)					0.085 (J)	<0.1
8/31/2022	0.13	0.065 (J)		0.053 (J)	0.061 (J)	0.42	0.06 (J)		
9/1/2022									

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-27I	YGWC-26I	YGWC-27S	YGWC-26S
6/1/2016									
6/2/2016									
6/6/2016	<0.1	<0.1							
6/7/2016			<0.1	<0.1	<0.1				
6/8/2016						0.086 (J)	0.094 (J)	0.12 (J)	<0.1
6/9/2016						(-,	(-)	(-)	
7/25/2016									
7/26/2016									
7/27/2016	<0.1	<0.1	<0.1		<0.1				
7/28/2016				0.02 (J)					
8/1/2016				0.02 (0)		0.14 (J)	0.08 (J)	0.22 (J)	0.24 (J)
8/2/2016						0.11(0)	0.00 (0)	0.22 (0)	3.2 · (0)
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		<0.1			<0.1				
9/19/2016	<0.1	30.1	<0.1	0.02 (J)	-0.1				
9/20/2016	~0.1		~0.1	0.02 (3)		<0.1	0.05 (J)	0.32	0.03 (J)
9/21/2016						~0.1	0.03 (3)	0.32	0.03 (3)
11/1/2016									
			-0.1						
11/2/2016 11/3/2016	-0.1	-0.1	<0.1	-0.1	-0.1				
	<0.1	<0.1		<0.1	<0.1				
11/4/2016						.0.4 (%)			0.44
11/7/2016						<0.1 (*)	<0.1 (*)	<0.1 (*)	0.44
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	<0.1	<0.1			<0.1				
1/12/2017									
1/13/2017			<0.1	<0.1					
1/16/2017									
1/18/2017						<0.1 (*)	0.11 (J)		<0.1 (*)
1/19/2017								0.25 (J)	
2/21/2017							<0.1 (*)		<0.1 (*)
2/22/2017								0.21 (J)	
2/23/2017						<0.1 (*)			
2/24/2017									
3/1/2017	<0.1	<0.1							
3/2/2017					<0.1				
3/3/2017									
3/6/2017			<0.1	<0.1					
3/7/2017									
3/8/2017									
4/26/2017	<0.1	<0.1	<0.1	0.04 (J)					
4/27/2017									
4/28/2017									
5/1/2017					.0.4				
5/2/2017					<0.1				

5/3	3/2017	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-27I	YGWC-26I	YGWC-27S	YGWC-26S 0.16 (J)
	5/2017									(0)
							0.07 (1)	0.00 (1)	0.40 (1)	
	8/2017						0.07 (J)	0.08 (J)	0.19 (J)	
	26/2017									
	27/2017									
6/2	28/2017	<0.1	<0.1							
6/2	29/2017			<0.1	<0.1	<0.1				
6/3	30/2017						<0.1 (*)		0.2 (J)	
7/5	5/2017									
	7/2017									
7/1	10/2017							<0.1 (*)		<0.1 (*)
	11/2017							. ,		. ()
	17/2017									
)/3/2017				<0.1					
			.0.4		<0.1					
	0/4/2017		<0.1	<0.1		<0.1				
)/5/2017	<0.1								
)/6/2017								<0.1 (*)	
10)/9/2017						<0.1 (*)			
10)/10/2017							<0.1		<0.1
10.)/11/2017									
10)/12/2017									
10.	/16/2017									
	/20/2017									
	10/2018									
	11/2018									
	19/2018									
	20/2018									
	27/2018									
	28/2018	<0.1	<0.1			<0.1				
	29/2018			<0.1	<0.1		<0.1		0.49	
3/3	30/2018							<0.1		0.35
4/2	2/2018									
4/3	3/2018									
6/5	5/2018				0.13 (J)					
6/6	6/2018			<0.1						
6/7	7/2018	<0.1								
	8/2018									
	11/2018		<0.1			<0.1				
	12/2018								0.037 (J)	
	13/2018						<0.1	0.088 (J)	· · · · \ - /	0.044 (J)
	28/2018						-0.1	0.000 (3)		0.044 (3)
	26/2018 6/2018									
	7/2018									
	19/2018									
	24/2018									
	25/2018	<0.1	<0.1	<0.1	0 (J)	<0.1				
9/2	26/2018									
10)/1/2018									
10)/2/2018						<0.1	<0.1	<0.1	<0.1
10)/3/2018									
2/2	25/2019									
	26/2019									

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-27I	YGWC-26I	YGWC-27S	YGWC-26S
2/27/2019						<0.1	<0.1	0.14 (J)	<0.1
3/4/2019									
3/5/2019		<0.1	<0.1	0.32	<0.1				
3/6/2019	<0.1								
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019						0.034 (J)		0.088 (J)	
4/2/2019				0.12 (J)	<0.1		0.071 (J)	(-)	<0.1
4/3/2019	<0.1	<0.1	<0.1	. (-)			(-)		
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019				0.15 (J)					
9/25/2019			<0.1	0.13 (3)	<0.1		0.064 (J)		<0.1
9/26/2019	<0.1	<0.1	~ 0.1		~0.1	0.14 (J)	0.004 (3)	0.22 (1)	~0.1
10/8/2019	~ 0.1	<0.1				0.14 (3)		0.22 (J)	
10/9/2019									
2/10/2020 2/11/2020	-0.1	-0.4			-0.4				
	<0.1	<0.1	.0.4	0.4 (1)	<0.1				
2/12/2020			<0.1	0.1 (J)		.0.4	.0.4	0.44 (1)	2.4
2/13/2020						<0.1	<0.1	0.11 (J)	<0.1
3/17/2020									
3/18/2020									2.4
3/19/2020									<0.1
3/20/2020						<0.1	0.06 (J)	0.097 (J)	
3/24/2020	<0.1	<0.1	<0.1	0.081 (J)	<0.1				
3/25/2020									
8/26/2020									
8/27/2020									
9/22/2020									
9/23/2020	<0.1	<0.1			<0.1				
9/24/2020			<0.1	0.079 (J)		0.059 (J)	0.053 (J)	0.092 (J)	<0.1
9/25/2020									
2/8/2021									
2/9/2021	<0.1	<0.1	<0.1	0.092 (J)					
2/10/2021						0.055 (J)	0.05 (J)	0.084 (J)	<0.1
2/11/2021									
2/12/2021									
3/1/2021									
3/2/2021									<0.1
3/3/2021	<0.1	<0.1	<0.1		<0.1	0.058 (J)	0.05 (J)	<0.1	
3/4/2021				0.091 (J)					
8/19/2021									<0.1
8/20/2021						0.091 (J)	<0.1	0.11	
8/26/2021		<0.1							
8/27/2021	<0.1		<0.1		<0.1				
9/1/2021				0.11					
9/3/2021									
2/8/2022								0.087 (J)	

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-27I	YGWC-26I	YGWC-27S	YGWC-26S
2/9/2022	<0.1	<0.1	<0.1	0.1	<0.1				
2/10/2022						0.059 (J)	<0.1		<0.1
2/11/2022									
8/30/2022	<0.1	<0.1		0.1	<0.1				
8/31/2022			<0.1				0.082 (J)		0.076 (J)
9/1/2022						0.1		0.12	

	VOMO 000	VOINO 001	VOWO 001	\(\text{O\(\text{II}\)}\)	0144 0 (1)	\(\alpha\)	VOWA 00 (I)	VOWA 40 (II.)
01110010	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	0.16 (J)	0.085 (J)	0.098 (J)					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	0.5	0.09 (J)	0.38					
8/30/2016				0.09 (J)				
8/31/2016					0.14 (J)			
9/13/2016								
9/14/2016						0.08 (J)		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	0.25 (J)	0.09 (J)	0.08 (J)					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						<0.1		
11/7/2016	0.27 (J)	<0.1 (*)						
11/8/2016	()	.,	0.24 (J)					
11/14/2016			. ,	0.18 (J)				
11/28/2016					0.12 (J)			
12/15/2016					(0)	0.06 (J)		
1/10/2017						(5)		
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						0.1 (J)		
1/18/2017	0.34		0.12 (J)			0.1 (0)		
1/19/2017	0.04	<0.1 (*)	0.12 (0)					
2/21/2017	0.27 (J)	-0.1()						
2/22/2017	0.27 (0)	<0.1 (*)	<0.1 (*)		0.09 (J)			
2/23/2017		-0.1()	-0.1()		0.00 (0)			
2/24/2017				0.05 (J)				
3/1/2017				0.03 (0)				
3/2/2017								
3/3/2017						<0.1		
3/6/2017						<0.1		
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017						0.06 (1)		
4/28/2017						0.06 (J)		
5/1/2017								
5/2/2017								

		YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/20	017								
5/5/20	017	0.2 (J)		0.08 (J)					
5/8/20	017		0.06 (J)		0.03 (J)	0.05 (J)			
5/26/2	2017						0.09 (J)		
6/27/2	2017								
6/28/2	2017						0.11 (J)		
6/29/2	2017								
6/30/2	2017								
7/5/20	017		0.08 (J)	0.11 (J)					
7/7/20	017	0.18 (J)							
7/10/2	2017								
7/11/2	2017				0.07 (J)				
7/17/2	2017					0.14 (J)			
10/3/2	2017						<0.1		
10/4/2	2017								
10/5/2	2017		<0.1 (*)	<0.1 (*)					
10/6/2									
10/9/2	2017	<0.1 (*)							
10/10)/2017				<0.1				
10/11	1/2017							<0.1	
10/12	2/2017								<0.1
	5/2017					0.12 (J)			
11/20								<0.1	<0.1
1/10/2									<0.1
1/11/2								<0.1	
2/19/2						0.17			<0.1
2/20/2								0.23	
3/27/2									
3/28/2							0.31		
3/29/2			<0.1						
3/30/2		<0.1		<0.1					
4/2/20					<0.1				
4/3/20								<0.1	<0.1
6/5/20									
6/6/20									
6/7/20							0.11 (J)		
6/8/20									
6/11/2			<0.1						
6/12/2	2018	0.13 (J)		<0.1					
6/13/2	2018								
6/28/2								<0.1	<0.1
8/6/20						0.087 (J)			
8/7/20	018							0.048 (J)	<0.1
9/19/2					<0.1				
9/24/2								<0.1	<0.1
9/25/2	2018								
9/26/2									
10/1/2							<0.1		
10/2/2			<0.1						
10/3/2		0.31		<0.1					
2/25/2						0.14 (J)			
2/26/2									

2/27/2019	YGWC-28S 0.22 (J)	YGWC-29I 0.15 (J)	YGWC-28I 0.14 (J)	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg) 0.12 (J)	YGWA-39 (bg)	YGWA-40 (bg)
3/4/2019	0.22 (0)	0.15 (0)	0.14 (0)			0.12 (3)		
3/5/2019								
3/6/2019								.0.1
3/26/2019				0.001 (1)			<0.1	<0.1
3/27/2019				0.081 (J)			<0.1	
3/28/2019						0.40 (1)		
3/29/2019						0.13 (J)		
4/1/2019		0.059 (J)	0.078 (J)					
4/2/2019	0.14 (J)							
4/3/2019								
6/12/2019					0.12 (J)			
8/19/2019					<0.1			
8/20/2019				<0.1				
8/21/2019							<0.1	<0.1
9/24/2019						0.081 (J)		
9/25/2019		0.054 (J)						
9/26/2019	0.28 (J)		0.29 (J)					
10/8/2019				0.034 (J)	0.052 (J)			
10/9/2019							<0.1	<0.1
2/10/2020								
2/11/2020						0.075 (J)		
2/12/2020							<0.1	<0.1
2/13/2020	0.18 (J)	0.053 (J)	0.14 (J)					
3/17/2020				<0.1	0.053 (J)			
3/18/2020								
3/19/2020	0.16 (J)		0.07 (J)			0.093 (J)		
3/20/2020		0.057 (J)						
3/24/2020								<0.1
3/25/2020							<0.1	
8/26/2020					0.068 (J)			
8/27/2020				<0.1				
9/22/2020				<0.1	0.058 (J)			
9/23/2020						0.08 (J)		
9/24/2020	0.16	0.06 (J)	0.073 (J)				<0.1	<0.1
9/25/2020								
2/8/2021								
2/9/2021								
2/10/2021						0.094 (J)	<0.1	<0.1
2/11/2021			0.066 (J)					
2/12/2021	0.069 (J)	0.17						
3/1/2021				<0.1				
3/2/2021					0.073 (J)			
3/3/2021	0.13	0.056 (J)	0.072 (J)			0.085 (J)		
3/4/2021							<0.1	<0.1
8/19/2021				<0.1				
8/20/2021	0.2	0.069 (J)	0.11		0.06 (J)			
8/26/2021							0.063 (J)	
8/27/2021						0.12		
9/1/2021								
9/3/2021								<0.1
2/8/2022	0.14	0.053 (J)	0.063 (J)	<0.1	0.064 (J)		0.052 (J)	<0.1

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/9/2022						0.094 (J)		
2/10/2022								
2/11/2022								
8/30/2022					0.086 (J)	0.12		
8/31/2022				0.065 (J)			0.065 (J)	0.05 (J)
9/1/2022	0.16	0.091 (J)	0.11					

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5D (bg)
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								
6/1/2016	3.04	6.33	7.46	7.72					
6/2/2016		0.33	7.40	7.72	7.84	5.75	5.75	5.46	7.67
					7.04	5.75	5.75	5.40	7.07
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016		0.04		774			5.00		
7/25/2016		6.21		7.74			5.82		
7/26/2016			7.43		7.88	5.72		5.45	7.66
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
9/13/2016		6.16	7.44						
9/14/2016				7.65		5.74			7.6
9/15/2016					7.74			5.45	
9/16/2016									
9/19/2016							5.78 (D)		
9/20/2016									
9/21/2016									
11/1/2016			7.24	7.7	7.75		5.62		
11/2/2016								5.41	7.35
11/3/2016									
11/4/2016		6.29				5.61			
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016	6.23								
12/15/2016									
1/10/2017								5.37	
1/11/2017			7.3	7.53	7.66				
1/12/2017						5.71			7.49
1/13/2017									
1/16/2017		6.29					5.72		
1/18/2017									
1/19/2017									
2/21/2017							5.67		
2/22/2017	6.21								
2/23/2017									

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5D (bg)
2/24/2017									
3/1/2017				7.42					
3/2/2017		6.28	7.23		7.68				
3/3/2017									
3/6/2017									
3/7/2017						5.66			7.43
3/8/2017								5.41	
4/26/2017				7.4	7.45		5.56	5.02	
4/27/2017		6.09	6.99						
4/28/2017									
5/1/2017									7.22
5/2/2017						5.65			
5/3/2017									
5/5/2017									
5/8/2017	6.12								
5/26/2017									
6/27/2017		6.21	6.87			5.7			7.32
6/28/2017				7.5	7.65				
6/29/2017									
6/30/2017							5.72	5.39	
7/5/2017							5.72	0.00	
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017	6.03								
10/3/2017	0.03	5.98	6.81			5.79			7.48
10/3/2017		5.96	0.61	7.45	7.49	5.79	5.87		7.40
10/4/2017				7.43	7.49		5.67	5.49	
10/6/2017								5.49	
10/9/2017 10/10/2017									
10/11/2017									
10/12/2017	6.10								
10/16/2017 11/20/2017	6.12								
1/10/2018									
1/10/2018									
2/19/2018	6.13								
2/20/2018	0.13								
		6.25					E 02	E 47	
3/27/2018		6.25		7.74	7.01		5.83	5.47	
3/28/2018 3/29/2018			7.38	7.74	7.91	5.63			7.02
3/30/2018			7.36			5.03			7.02
4/2/2018									
4/3/2018 6/5/2018			7 16						
6/5/2018		6 17	7.16						7.42
6/6/2018		6.17			7.60	E 62			7.43
6/7/2018				7.64	7.69	5.63		5.45	
6/8/2018				7.64			5.60	5.45	
6/11/2018							5.69		
6/12/2018 6/13/2018									
0/13/2010									

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5D (bg)
6/28/2018									
8/6/2018	6.01								
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018						5.63			7.13
10/1/2018		5.9	6.8	7.47	7.39			5.39	
10/2/2018							5.39		
10/3/2018									
2/25/2019									
2/26/2019							5.77	5.46	
2/27/2019		5.8	6.84	7.54	7.55				
3/4/2019						5.75			7.46
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019		6.15	6.99						
3/29/2019		0.10	0.00					5.34	
4/1/2019				7.74	7.87		5.62	0.01	
4/2/2019					7.07		0.02		
4/3/2019						5.63			7.11
6/12/2019	6.3					3.03			7.11
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019		6.23	7.07			5.6			6.93
9/25/2019		0.23	7.07	7.47	7.64	5.0	5.69	5.19	0.55
9/26/2019				7.47	7.04		3.09	5.19	
10/8/2019									
10/9/2019									
2/10/2020		6.1	7.2						
2/11/2020		0.1	7.2	7.09					
2/11/2020				7.09	7.83	5.83	5.8	5.48	7.52
2/13/2020					7.65	5.65	5.0	3.40	1.52
3/17/2020									
3/17/2020		6.19						5.38	
3/19/2020		0.19	7.03	7.31	7.65		6	5.56	
3/20/2020			7.03	7.51	7.03		O		
						E 01			7.24
3/24/2020 3/25/2020						5.81			7.34
5/6/2020	6.24								
8/26/2020									
8/27/2020						F 00			7.10
9/22/2020		6.01	7.15	7 27	7.57	5.99			7.19
9/23/2020		6.01	7.15	7.37	7.57		F 67		
9/24/2020							5.67	E 44	
9/25/2020						F 67		5.44	
2/8/2021						5.67			
2/9/2021				7.50	7.01			E 2E	
2/10/2021				7.58	7.81			5.35	

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5D (bg)
2/11/2021							5.73		
2/12/2021		6.21	7.14						
3/1/2021							5.78		
3/2/2021	5.42					5.63		5.49	7.15
3/3/2021		5.38	7.2	8.23	8.39				
3/4/2021									
8/19/2021		6.38	6.32		5.34			7.32	
8/20/2021	5.86								
8/26/2021						5.51			7.16
8/27/2021				7.39					
9/1/2021									
9/3/2021									
2/8/2022	5.83								
2/9/2022		6.24	7.12	7.66	7.97				
2/10/2022						5.14		4.5	6.99
2/11/2022							5.59		
8/30/2022	5.39		7.2			5			7.4
8/31/2022		5.64		7.49	7.65		5.87	5.15	
9/1/2022									

	YGWA-4I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-26S	YGWC-27I	YGWC-27S
8/27/2008	, ,	, ,	, -,	, -,	, -,	, ,			
3/3/2009									
11/18/2009									
3/3/2010									
3/10/2011									
9/8/2011									
3/5/2012									
9/10/2012									
2/6/2013									
8/12/2013									
2/5/2014									
8/3/2015									
2/16/2016									
6/1/2016									
6/2/2016	6.36								
6/6/2016		5.71	6.17						
6/7/2016				5.77	6.1	5.62			
6/8/2016							5.24	6.32	6.24
6/9/2016							0.24	0.02	0.24
7/25/2016	0.00								
7/26/2016	6.22								
7/27/2016		5.46	6.14	5.79		5.59			
7/28/2016					6.12				
8/1/2016							5.17	6.34	6.12
8/2/2016									
8/30/2016									
9/13/2016									
9/14/2016	6.23								
9/15/2016									
9/16/2016						5.58			
9/19/2016		5.59	6.04	5.73	6.12				
9/20/2016							5.35	6.36	6.3
9/21/2016									
11/1/2016									
11/2/2016	6.08			5.67					
11/3/2016	0.00	5.39	5.97	0.07	6.07	5.59			
11/4/2016		3.55	5.57		0.07	0.00			
							E 2E	6.2	6.05
11/7/2016							5.35	6.3	6.25
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017		5.48	6.05			5.59			
1/12/2017									
1/13/2017	6.19			5.79	6.41				
1/16/2017									
1/18/2017							5.2	6.31	
1/19/2017									6.2
2/21/2017							5.14		
2/22/2017									6.14
2/23/2017								6.18	

140			YGWA-4I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-26S	YGWC-27I	YGWC-27S
1000000000000000000000000000000000000	2	2/24/2017									
SAME	3	3/1/2017		5.41	5.94						
Second	3	3/2/2017						5.54			
Second	3	3/3/2017									
ASCOUTY	3	3/6/2017	6.2			5.63	6.34				
ASSENCION	3	3/7/2017									
4270-17	3	3/8/2017									
6/12/2017	4	1/26/2017		5.4	5.99	5.66	6.32				
S12017	2	1/27/2017									
59/2017 1 5.28 \$13/2017 1 1 5.28 1 5.28 1 5.28 1 5.28 1 5.28 6.11 5.28 6.11 5.28 6.11 6.24 6.11 6.24 6.11 6.27 6.27 6.24 6.11 6.24 6.11 6.24 6.11 6.22 6.24 6.17 6.22 6.24 6.17 6.22 6.24 6.17 6.22 6.24 6.17 6.22 6.24 6.17 6.22 6.24 6.24 6.17 6.22 6.24 6.24 6.17 6.24 6.17 6.24 6.17 7.22 7.22 6.25 6.25 6.25 6.24 6.17 7.22 7.22 6.25 6.25 6.24 6.13 6.24 6.13 6.24 6.13 6.24 6.13 6.24 6.13 6.24 6.13 6.24 6.24 6.24 6.24 6.24 6.24 6.24 6.24 6.24 6.24 6.24 6.	2	1/28/2017									
Signor	į	5/1/2017	6.21								
56/2017 February 1970	į	5/2/2017						5.47			
SHIZE	į	5/3/2017							5.28		
580017 624 6.11 57802017 6262017 6262017 6262017 6262017 6262017 6262017 6262017 6261 617 67802017 621 621 617 617 621 617 755017 7772017 7772017 7772017 626 526 77712017 77112017 77112017 626 627 526 77112017 626 626 77112017 626 626 77112017 626	į	5/5/2017									
Page										6.24	6.11
6282017											
6282017											
6220277				5.36	6						
6.21			6.21			5.85	6.47	5.56			
7/5/2017 7/10/10/2017 7/10/2017 7/10/2017 7/10/2018 7/10										6.21	6.17
717/2017 711/2018 711											
7/1/2017											
7/11/2017 7/17/2017 7/17/2017 7/17/2017 7/17/2017 7/17/2017 7/17/2017 7/17/2017 7/17/2017 7/17/2017 7/17/2017 7/17/2017 7/17/2017 7/17/2017 7/17/2017 7/17/2017 10/16/2017 10/16/2017 10/16/2017 10/16/2017 10/16/2017 10/16/2017 11/10/2018 1/11/2018									5 25		
7/17/2017 10/3/2017 10/3/2017 5 32 5 83 5 57 10/5/2017 6 .16 10/5/2017 6 .16 10/5/2017 6 .16 10/5/2017 6 .16 10/5/2017 6 .16 10/5/2017 10/5/2017 10/10/2017 10/11/2017 10/11/2017 10/11/2017 10/11/2017 11/10/2018 1/11/202017 11/202018 2/20/2018 3/27/2018 3/27/2018 4/2/2018 4/2/2018 4/2/2018 6/5/2018									0.20		
100/2017											
1042017							6 56				
10/5/2017 6.16 6.11 6.26 6.13 6.26 6.13 6.26 6.				5 32		5.83	0.00	5 57			
10/6/2017			6 16	0.02	6.11	0.00		0.07			
1019/2017			0.10		0.11						6 13
10/10/2017 10/11/2017 10/11/2017 10/11/2017 10/11/2017 10/11/2017 10/11/2017 10/11/2017 10/11/2017 10/11/2018 10/										6.26	0.10
10/11/2017 10/12/2017 10/16/2017 11/10/2017 11/10/2018 11/11/2018 2/19/2018 2/20/2018 3/27/2018 3/27/2018 3/28/2018 3/28/2018 3/28/2018 3/28/2018 3/28/2018 3/28/2018 3/28/2018 3/28/2018 3/28/2018 3/28/2018 3/28/2018 3/28/2018 3/28/2018 6/6/2018 4/2/2018 4/2/2018 6/6/2018 6/6/2018 6/6/2018 6/6/2018 6/6/2018 6/6/2018 6/6/2018 5.98 6/6/2018 6/1/2018 6/1/2018 6/1/2018 6/1/2018 6/1/2018 6/1/2018 6/1/2018 6/1/2018 6/1/2018 6/1/2018 6/1/2018 6/1/2018 6/1/2018 6/1/2018 6/1/2018 6/1/2018 6/1/2018 6/1/2018									5 17	0.20	
10/12/2017 10/16/2017 11/20/2017 11/10/2018 1/11/10/18 2/19/2018 2/20/2018 3/27/2018 3/27/2018 3/28/2018 6.99 5.94 6.10 5.93 6.75 5.59 6.36 6.25 3/30/2018 4/2/2018 4/3/2018 6/6/2018 6/6/2018 6/6/2018 6/6/2018 6/12/2018									5.17		
10/16/2017 11/20/2018 11/10/2018 11/11/2018 2/19/2018 2/19/2018 2/20/2018 3/27/2018 3/28/2018 6.09 5.93 6.75 5.59 4/2/2018 4/2/2018 4/3/2018 6/6/2018 6/6/2018 6/6/2018 6/6/2018 6/12/2018											
11/20/2017 1/10/2018 1/11/2018 2/19/2018 2/20/2018 3/27/2018 3/27/2018 3/29/2018 3/29/2018 3/29/2018 6.09 5.34 6.1 5.93 6.75 5.19 4/2/2018 4/2/2018 6/5/2018 6/5/2018 6/5/2018 6.12 5.86 6/7/2018 6.12 5.28 5.28 5.58 6/11/2018											
1/10/2018 1/11/2018 2/19/2018 2/20/2018 3/27/2018 3/27/2018 3/29/2018 3/29/2018 3/29/2018 3/29/2018 3/29/2018 3/29/2018 6.09 5.93 6.75 5.59 5.19 4/2/2018 4/3/2018 6/5/2018 6/5/2018 6/6/2018 6/6/2018 6/6/2018 6/11/2018 5.28 5.28 5.58 6/11/2018 6/11/2018 5.28 5.58 6/11/2018 6/11/2018 5.28 5.58 6/11/2018 6/11/2018 5.28 5.58 6/11/2018 6/11/2018 5.28 5.58 6/11/2018											
1/11/2018 2/19/2018 2/20/2018 3/27/2018 3/28/2018 5.34 6.1 5.93 6.75 5.19 4/2/2018 4/3/2018 6/5/2018 6/5/2018 6/5/2018 6.12 5.86 6/7/2018 6.12 5.28 5.28 6/12/2018											
2/19/2018 2/20/2018 3/27/2018 3/28/2018 5.34 6.1 5.59 3/29/2018 6.09 5.93 6.75 6.36 6.25 3/30/2018 5.19 5.19 4/2/2018 4/2/2018 4/2/2018 5.19 5.19 4/3/2018 6/5/2018 6.09 5.86 5.86 6/2/2018 6.09 5.86 6/2/2018 6/2/2018 5.98 5.58 6/2/2018 6/2/											
2/20/2018 3/27/2018 3/28/2018 5.34 6.1 5.59 3/29/2018 6.09 5.93 6.75 6.36 6.25 3/30/2018 5.19 5.19 5.19 4/2/2018 6/5/2018 6.09 5.86 5.86 6/6/2018 6.12 5.98 5.86 6/6/2018 6/1/2018 5.58 6/1/2018 6/1/2018 6.22 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>											
3/27/2018 3/28/2018											
3/28/2018 5.34 6.1 5.59 3/29/2018 6.09 5.93 6.75 6.36 6.25 3/30/2018 5.19 5.19 5.19 4/2/2018 4/3/2018 6.09 5.86 5.86 6/5/2018 6.12 5.98 5.86 5.58 5.58 6/8/2018 6/11/2018 5.28 5.58 5.58 6/12/2018 6/12/2018 6.22 6.22											
3/29/2018 6.09 5.93 6.75 6.36 6.25 3/30/2018 5.19 5.20 5.86 </td <td></td> <td></td> <td></td> <td>5.24</td> <td>0.1</td> <td></td> <td></td> <td>F F0</td> <td></td> <td></td> <td></td>				5.24	0.1			F F0			
3/30/2018 5.19 4/2/2018 4/3/2018 6/5/2018 6.09 6/6/2018 5.86 6/7/2018 6.12 5.98 5.98 6/8/2018 5.28 6/11/2018 5.28 5.58 5.58			6.00	5.34	b. I	F 02	6.75	5.59		6.26	6.05
4/2/2018 4/3/2018 6/5/2018 6.09 6/6/2018 5.86 6/7/2018 6.12 5.98 6/11/2018 5.28 5.58 6/12/2018 6/12/2018 5.28 5.58 6.22			6.09			5.93	6.75		F 10	6.36	0.25
4/3/2018 6.09 6/5/2018 5.86 6/7/2018 6.12 5.98 5.86 6/8/2018 5.28 6/11/2018 5.28 5.58 6.22									ნ. 19		
6/5/2018 6.09 6/6/2018 5.86 6/7/2018 6.12 5.98 6/8/2018 6/11/2018 5.28 5.58 6/12/2018											
6/6/2018 5.86 6/7/2018 6.12 6/8/2018 6/11/2018 5.28 5.58 6/12/2018							0.00				
6/7/2018 6.12 5.98 6/8/2018 6/11/2018 5.28 5.58 6/12/2018 5.28 5.58						5.00	6.09				
6/8/2018 6/11/2018 5.28 6/12/2018 5.58 6.22						5.86					
6/11/2018 5.28 6/12/2018 5.58 6.22			6.12		5.98						
6/12/2018 6.22											
				5.28				5.58			
6/13/2018 5.12 6.28											6.22
	(5/13/2018							5.12	6.28	

	YGWA-4I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-26S	YGWC-27I	YGWC-27S
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018		4.86	5.81	5.84	6.67	5.59			
9/26/2018	5.84								
10/1/2018									
10/2/2018							4.95	5.9	5.99
10/3/2018							4.50	0.0	0.30
2/25/2019									
2/26/2019									
2/27/2019							5	6.31	6.26
3/4/2019	6.18						3	0.51	0.20
3/5/2019	0.16	5.26		6.07	7.22	5.48			
		5.20	F 00	6.07	1.22	5.46			
3/6/2019			5.99						
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019								6.43	6.4
4/2/2019					6.94	5.74	5.13		
4/3/2019	6.43	5.47	6.29	5.71					
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019					6.87				
9/25/2019	6.2			5.86		5.49	5.24		
9/26/2019		5.2	6.04					6.3	6.22
10/8/2019									
10/9/2019									
2/10/2020									
2/11/2020		5.3	6.07			5.58			
2/12/2020	6.15			6	7.13				
2/13/2020							5.29	6.4	6.31
3/17/2020									
3/18/2020									
3/19/2020							5.46		
3/20/2020								6.32	6.18
3/24/2020		5.33	5.98	5.86	6.35	5.57			
3/25/2020	6.26								
5/6/2020									
8/26/2020									
8/27/2020									
9/22/2020	5.8								
9/23/2020		5.29	6.01			5.58			
9/24/2020				5.8	6.7		5.46	6.36	6.27
9/25/2020									
2/8/2021									
2/9/2021	6.06	5.43	6.12	5.86	6.95				
2/10/2021							5.18	6.29	6.21

	YGWA-4I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-26S	YGWC-27I	YGWC-27S
2/11/2021									
2/12/2021									
3/1/2021									
3/2/2021							5.38		
3/3/2021	6.21	5.31	5.89	5.89		5.52		6.43	6.35
3/4/2021					6.8				
8/19/2021							5.12		
8/20/2021								6.17	6.18
8/26/2021	5.82	4.4							
8/27/2021			5.4	5.57		5.27			
9/1/2021					6.65				
9/3/2021									
2/8/2022									6.22
2/9/2022		5.28	5.98	5.91	6.84	5.53			
2/10/2022							5.31	6.23	
2/11/2022	5.95								
8/30/2022		5.18	5.82		6.58	4.68			
8/31/2022	5.5			5.38			5.61		
9/1/2022								6.13	6.13

		YGWC-26I	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
8/27/200	08								
3/3/2009	9								
11/18/20	009								
3/3/2010	0								
3/10/20									
9/8/201									
3/5/2012									
9/10/20									
2/6/2013									
8/12/20									
2/5/2014									
8/3/201									
2/16/20									
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016		5.85							
6/9/2016		0.00	6.39	6.19	6.42				
7/25/20			0.55	0.13	0.42				
7/26/20									
7/27/20									
7/28/20 ⁻ 8/1/2016		5.83							
		5.63	6.25	6 17	6.42				
8/2/2016			6.35	6.17	6.43	F 75			
8/30/20						5.75	7.44		
9/13/20							7.41		
9/14/20									
9/15/20									
9/16/20									
9/19/20		5.00							
9/20/20		5.89							
9/21/20			6.39	6.2	6.45				
11/1/20									
11/2/20									
11/3/20									
11/4/20							7.12		
11/7/20		5.91	6.36	6.1					
11/8/20					6.37				
11/14/20						5.59			
11/28/20									
12/15/20							7.24		
1/10/20									
1/11/20									
1/12/20									
1/13/20							7.04		
1/16/20		5.04	0.00		0.07		7.24		
1/18/20		5.84	6.23	0.00	6.27				
1/19/20		F 70	0.40	6.22					
2/21/20		5.79	6.42	0.40	0.05				
2/22/20				6.12	6.35				
2/23/20	1/								

	YGWC-26I	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/24/2017					5.49			
3/1/2017								
3/2/2017								
3/3/2017						7.22		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						7.21		
5/1/2017								
5/2/2017								
5/3/2017								
5/5/2017		6.4		6.36				
5/8/2017	5.84		6.11		5.58			
5/26/2017						7.13		
6/27/2017						7.1.0		
6/28/2017						7.06		
						7.00		
6/29/2017								
6/30/2017								
7/5/2017			6.17	6.4				
7/7/2017		6.46						
7/10/2017	5.92							
7/11/2017					5.58			
7/17/2017								
10/3/2017						6.99		
10/4/2017								
10/5/2017			6.17	6.43				
10/6/2017								
10/9/2017		6.37						
10/10/2017	5.84	0.07			5.49			
10/11/2017	3.04				5.45		6.4	
							0.4	5.40
10/12/2017								5.43
10/16/2017								
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								
3/28/2018						7.3		
3/29/2018			6.09					
3/30/2018	6.19	6.35		6.39				
4/2/2018					6.3 (o)			
4/3/2018					(-/		6.87	5.84
6/5/2018							3.07	
6/6/2018								
6/7/2018						7.29		
6/8/2018								
6/11/2018			6.17					
6/12/2018		6.47		6.42				
6/13/2018	5.82							

	YGWC-26I	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/28/2018							6.18	5.24
8/6/2018								
8/7/2018							6.08	5.18
9/19/2018					5.48			
9/24/2018							5.81	5.14
9/25/2018								
9/26/2018								
10/1/2018						7.07		
10/2/2018	5.81		6.17					
10/3/2018		6.01		6.21				
2/25/2019								
2/26/2019								
2/27/2019	5.79	6.38	6.19	6.32		7.27		
3/4/2019								
3/5/2019								
3/6/2019								
3/26/2019								5.3
3/27/2019					5.83		5.84	
3/28/2019								
3/29/2019						7.06		
4/1/2019			6.03	6.3				
4/2/2019	5.87	6.7						
4/3/2019								
6/12/2019								
8/19/2019								
8/20/2019					5.58			
8/21/2019							5.96	5.26
9/24/2019						7.01		
9/25/2019	5.79		6.21			7.01		
9/26/2019	0.70	6.47	0.21	6.43				
10/8/2019		0.47		0.40	5.59			
10/9/2019					0.00		5.81	5.22
2/10/2020							3.01	5.22
2/11/2020						7.38		
2/11/2020						7.50	5.97	5.3
2/12/2020	5.93	6.53	6.32	6.49			3.97	3.3
3/17/2020	5.95	0.55	0.32	0.49	5.57			
					5.57			
3/18/2020		6.00		7.01		7 22		
3/19/2020	F 04	6.98	0.47	7.01		7.22		
3/20/2020	5.94		6.17					5.00
3/24/2020							F 70	5.29
3/25/2020							5.78	
5/6/2020								
8/26/2020								
8/27/2020					4.88			
9/22/2020					5.46			
9/23/2020						7.22		
9/24/2020	5.86	6.53	6.2	6.41			5.7	5.43
9/25/2020								
2/8/2021								
2/9/2021								
2/10/2021	5.96					7.29	5.8	5.19

	Υ	/GWC-26I	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/11/20	21				6.57				
2/12/20	21		6.6	6.24					
3/1/202	1					5.48			
3/2/202	1								
3/3/202	1 5	5.93	6.61	6.27	6.51		7.92		
3/4/202	1							5.54	5.23
8/19/20	21					5.5			
8/20/20	21 5	5.78	6.38	6.07	6.23				
8/26/20	21							6.91	
8/27/20	21						7.14		
9/1/202	1								
9/3/202	1								4.75
2/8/202	2		6.3	5.88	6.34	5.4		5.78	5.26
2/9/202	2						5.89		
2/10/20	22 5	5.84							
2/11/20	22								
8/30/20	22						7.04		
8/31/20	22 5	5.77				5.32		5.3	4.53
9/1/202	2		6.59	6.05	6.41				

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
6/1/2016	12	4.2	5						
6/2/2016				6.6	20	1.9	1.3	8	5.8
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	8.4	3.7					1.2		
7/26/2016			5.4	6.1	20	1.8		7.7	6.7
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016		5.2	2.9						
9/14/2016	8.6				19	1.8		7.5	
9/15/2016				6.1					6
9/16/2016									
9/19/2016							1.2		
9/20/2016									
9/21/2016									
11/1/2016	8.9		3.9				1.3		4.9
11/2/2016	0.0		0.0	6.3	20		1.0	8.2	4.5
11/3/2016				0.5	20			0.2	
11/4/2016		5				2			
11/7/2016		3				2			
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				5.9					
1/11/2017	8.6		3.7	5.9					4.5
1/11/2017	0.0		3.7		19	1.9			4.5
					19	1.9		0 1	
1/13/2017 1/16/2017		7.9					<1	8.1	
1/18/2017		7.9					\ 1		
1/19/2017									
2/21/2017							1.4		
2/22/2017							1.4		
2/23/2017									
2/24/2017 3/1/2017	9.3								
	9.3	7.4	4.6						4.4
3/2/2017		7.4	4.6						4.4
3/3/2017								0	
3/6/2017					20	2.1		8	
3/7/2017				7	20	2.1			
3/8/2017	44			7			4.4		5.4
4/26/2017	11	7.4	F 2	7			1.4		5.1
4/27/2017		7.4	5.2						
4/28/2017					20			0.4	
5/1/2017					20	2		8.4	
5/2/2017						2			

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		6.4	5.9		10	2.1			
	10	0.4	5.9		18	2.1			5.4
6/28/2017	12								5.4
6/29/2017								9.2	
6/30/2017				6.5			<1		
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		5.9	6.6		16	2.3			
10/4/2017	12						1.4		6.2
10/5/2017				7.9				9.6	
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/11/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018			6.4						
6/6/2018		4.4			8.3				
6/7/2018						2		8.5	6.7
6/8/2018	9.6			6.4					
6/11/2018							1.1		
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					7.9	2.3		10.2	
10/1/2018	9.1	4	5.6	6.8					7.1
10/1/2018	J. I	7	5.0	0.0			1		7.1
							1		
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		4.3	8						
3/29/2019				7.3					
4/1/2019	8.5						0.96 (J)		7.2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
4/2/2019									
4/3/2019					7	2.1		8.5	
6/12/2019									
9/24/2019		4.3	5.3		5.5	2.4			
9/25/2019	13.8			6.6			0.81 (J)	8.5	7
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		5.3		8.1					
3/19/2020	12.9		10				1.6		9
3/20/2020									
3/24/2020					5.9	2.1			
3/25/2020								8.8	
9/22/2020					5.5	2.1		8.2	
9/23/2020	16.8	3.4	8.1						6.9
9/24/2020							0.69 (J)		
9/25/2020				6.1					
3/1/2021							0.88 (J)		
3/2/2021				6	2.6	2.3			
3/3/2021	9.6	4.4	9					7.8	7
3/4/2021									
8/19/2021		4.9	8.9	6.7			1		7.5
8/20/2021									
8/26/2021					6	2.4		8.5	
8/27/2021	18.2								
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	16	5.1	9.3						7.2
2/10/2022				6.2	4.9	2.4			
2/11/2022							2.8	7.7	
8/30/2022			10.2		5.7	2.4			
8/31/2022	13.9	4.8		5.8			1.1	8	6.9
9/1/2022									

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-26I	YGWC-26S	YGWC-27S	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	1.2	1.8							
6/7/2016			5.2	<1	4.4				
6/8/2016						81	110	26	3.2
6/9/2016						0.		20	0.2
7/25/2016									
7/26/2016									
	4.7	1.0		0.00 (1)	4.7				
7/27/2016	1.7	1.9	F 4	0.08 (J)	4.7				
7/28/2016			5.1			75	00	07	2.0
8/1/2016						75	96	27	3.6
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		1.7			4.8				
9/19/2016	1.8		4.8	0.08 (J)					
9/20/2016						78	100	21	5.6
9/21/2016									
11/1/2016									
11/2/2016				0.1 (J)					
11/3/2016	0.69 (J)	1.9	5		5.3				
11/4/2016									
11/7/2016						81	100	24	5.4
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	<1	1.7			5.2				
1/12/2017									
1/13/2017			4.3	<1					
1/16/2017									
1/18/2017						95	100		3.5
1/19/2017								25	
2/21/2017						80	96		
2/22/2017								24	
2/23/2017									4.9
2/24/2017									·· ·
3/1/2017	1.8	<1							
3/1/2017	1.0	-1			5				
3/3/2017					5				
			4.5	-1					
3/6/2017			7.0	<1					
3/7/2017									
3/8/2017	1.0	1.0	4.0	-4					
4/26/2017	1.6	1.9	4.9	<1					
4/27/2017									
4/28/2017									
5/1/2017					_				
5/2/2017					5				

		YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-26I	YGWC-26S	YGWC-27S	YGWC-27I
5/3/2	2017							100		
5/5/2	2017									
5/8/2							84		23	3.9
5/26/										
6/27/										
6/28/		<1	<1							
6/29/		-1		5.5	<1	F 2				
				5.5	\ 1	5.2			22	-
6/30/									23	5
7/5/2										
7/7/2										
7/10/							84	100		
7/11/										
7/17/										
10/3/				5.8						
10/4/	/2017		1.7		<1	5.3				
10/5/	/2017	1.6								
10/6/	/2017								23	
10/9/	/2017									5.1
10/10	0/2017						82	97		
10/11	1/2017									
10/12	2/2017									
	6/2017									
	0/2017									
1/10/										
1/11/										
2/19/										
2/20/										
4/2/2										
4/3/2										
				6.1						
6/5/2 6/6/2				0.1	0.049 (J)					
		0.00 (1)			0.049 (3)					
6/7/2		0.68 (J)								
6/8/2										
6/11/			0.95 (J)			5.2				
6/12/									18.1	
6/13/							76.5	93.3		6.1
6/28/										
8/6/2										
8/7/2										
	/2018									
9/24/										
	/2018	1	1.5	7	0.13 (J)	6.1				
9/26/	/2018									
10/1/	/2018									
10/2/	/2018						83.9	99	20.2	6.1
10/3/	/2018									
2/25/	/2019									
	/2019									
3/27/										
3/28/										
3/29/										
4/1/2									18.3	4.1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-26I	YGWC-26S	YGWC-27S	YGWC-27I
4/2/2019			3.8		5.1	77.6	94.5		
4/3/2019	0.82 (J)	1.3		0.12 (J)					
6/12/2019									
9/24/2019			1						
9/25/2019				<1	5.5	80.1	97		
9/26/2019	0.64 (J)	1						18.2	4.2
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020							99.4		
3/20/2020						84.7		21.1	5.2
3/24/2020	<1	0.99 (J)	3	<1	5.4				
3/25/2020									
9/22/2020									
9/23/2020	0.53 (J)	1.1			5.1				
9/24/2020			3.6	<1		85.6	92.3	16.6	3
9/25/2020									
3/1/2021									
3/2/2021							92.7		
3/3/2021	<1	1		<1	5.2	89.3		451 (o)	2.6
3/4/2021			4.5						
8/19/2021							86.5		
8/20/2021						84		18	2.9
8/26/2021		1.2							
8/27/2021	0.59 (J)			<1	5.3				
9/1/2021			5						
9/3/2021									
2/8/2022								16.3	
2/9/2022	0.51 (J)	1.1	3.9	<1	4.8				
2/10/2022						81.8	86.5		2.4
2/11/2022									
8/30/2022	0.78 (J)	1.3	3.2		4.7				
8/31/2022				<1		85.9	90.2		
9/1/2022								13.5	2.5

		YGWC-28I	YGWC-29I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6	/1/2016								
6	/2/2016								
6	6/6/2016								
	7/2016								
	/8/2016								
	/9/2016	8.7	33	5.2					
	//25/2016								
	//26/2016								
	//27/2016								
	/28/2016								
	/1/2016								
	/2/2016	7.5	32	4.5					
	/30/2016	7.0	52	4.0	160				
	/31/2016				100	29			
	/13/2016					23			
							9.4		
	/14/2016 /15/2016						9.4		
	/16/2016								
	/19/2016								
	/20/2016	•	00						
	/21/2016	8	32	<1 (*)					
	1/1/2016								
	1/2/2016								
	1/3/2016								
	1/4/2016						13		
	1/7/2016		33	4.3					
	1/8/2016	8.3							
	1/14/2016				150				
	1/28/2016					36			
	2/15/2016						1.8		
	/10/2017								
	/11/2017								
	/12/2017								
	/13/2017								
	/16/2017						11		
	/18/2017	8		2.7					
	/19/2017		32						
	/21/2017			3					
	/22/2017	8.2	31			43			
	/23/2017								
	/24/2017				120				
	/1/2017								
3	/2/2017								
3	/3/2017						8.8		
	/6/2017								
	/7/2017								
3	/8/2017								
	/26/2017								
4	/27/2017								
4	/28/2017						10		
5	/1/2017								
5	/2/2017								

	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	<1 (*)		<1 (*)					
5/8/2017		32		120	60			
5/26/2017						12		
6/27/2017								
6/28/2017						11		
6/29/2017								
6/30/2017								
7/5/2017	8.1	31						
7/7/2017	0.1	31	2.7					
7/10/2017			2.7					
7/10/2017				110				
7/17/2017				110	63			
					03	7.0		
10/3/2017						7.9		
10/4/2017								
10/5/2017	8.6	31						
10/6/2017								
10/9/2017			2.9					
10/10/2017				93				
10/11/2017							20	
10/12/2017								17
10/16/2017					62			
11/20/2017							24	71
1/10/2018								66
1/11/2018							23	
2/19/2018					64.6			57.2
2/20/2018							20.6	
4/2/2018				88.8				
4/3/2018							24.5	49.4
6/5/2018								
6/6/2018								
6/7/2018						8.8		
6/8/2018								
6/11/2018		30.6						
6/12/2018	8.2		2.9					
6/13/2018								
6/28/2018							22	43.8
8/6/2018					42.1			
8/7/2018							20.7	40.5
9/19/2018				75				
9/24/2018							21.2	39.7
9/25/2018								
9/26/2018								
10/1/2018						9.1		
10/1/2018		30.8				···		
10/3/2018	8	55.5	2.1					
2/25/2019	U		۷. ۱		42.1			
					44.1			24.2
3/26/2019 3/27/2019				65.9			17.7	34.3
				JJ.3			17.7	
3/28/2019						0		
3/29/2019	0.2	20.4				9		
4/1/2019	8.2	30.4						

YGWC-28I	YGWC-29I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
		2.4					
				83.4			
					9.1		
	30						
7.9		1.6					
			52.3	128			
						15	27.9
			71.6	98.6			
9.1		1.7			12.4		
	33						
							25.2
						14.3	
			51.5	145			
					11.8		
7.2	26.2	0.99 (J)				11.7	22.9
			51.6				
				156			
8.6	26.6	4.9			10.6		
						12	21.5
			52.6				
8.9	24.7	5.4		121			
						19.2	
					16.7		
							21.3
8.1	22.9	10.5	50.9	107		14.6	17.9
					18		
				101	20.1		
			48			10.9	17.9
7.6	21.2	13.4					
	7.9 9.1 7.2 8.6 8.9	30 7.9 9.1 33 7.2 26.2 8.6 26.6 8.9 24.7	30 7.9 1.6 9.1 1.7 33 7.2 26.2 0.99 (J) 8.6 26.6 4.9 8.9 24.7 5.4	7.9 30 7.9 1.6 52.3 71.6 9.1 1.7 33 7.2 26.2 0.99 (J) 51.6 8.6 26.6 4.9 8.9 24.7 5.4 8.1 22.9 10.5 50.9	2.4 1.6	24	2.4

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5I (bg)
6/1/2016	150	120	54						
6/2/2016				46	160	96	36	130	66
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	135		48				50		
7/26/2016		94		54	177	92		141	78
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016		105	67						
9/14/2016	127				187	102			73
9/15/2016				54				153	
9/16/2016									
9/19/2016							35		
9/20/2016									
9/21/2016									
11/1/2016	75	44					<25	92	
11/2/2016	70			71	181	115	-20	<i>52</i>	
11/3/2016				, ,	101	113			
11/4/2016			60						75
11/7/2016			00						70
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				45					
1/11/2017	148	107		40				159	
1/12/2017	140	107			202			100	86
1/13/2017					202	67			00
1/16/2017			65			07	47		
1/18/2017			00				47		
1/19/2017									
2/21/2017							<25		
2/22/2017							20		
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					257				108
3/8/2017				178	-				
4/26/2017	92			52			55	181	
4/27/2017		116	31						
4/28/2017		- : -							
5/1/2017					165	107			
5/2/2017									103

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		89	42		189				73
6/28/2017	126							169	
6/29/2017	.20					79			
6/30/2017				45		,,	42		
7/5/2017				45			42		
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017		110	50		170				00
10/3/2017		119	58		170				89
10/4/2017	147						31	141	
10/5/2017				40		95			
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018		127							
6/6/2018			96		151				
6/7/2018						90		95	142
6/8/2018	158			114					
6/11/2018							59		
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					144	116			86
10/1/2018	138	117	60	50				165	
10/2/2018							57		
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		87	87						
3/29/2019		·,	·,	63					
4/1/2019	19 (J)			55			54	149	
1/2010	.5 (0)						~ 7	. 10	

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5I (bg)
4/2/2019									
4/3/2019					142	111			83
6/12/2019									
9/24/2019		124	54		129				79
9/25/2019	159			64		117	51	157	
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020			35	57					
3/19/2020	148	116					47	146	
3/20/2020									
3/24/2020					139				68
3/25/2020						146			
9/22/2020					104	83			75
9/23/2020	155	108	15					157	
9/24/2020							51		
9/25/2020				54					
3/1/2021							23		
3/2/2021				67	52				67
3/3/2021	111	99	39			80		137	
3/4/2021									
8/19/2021		105	44	54			50	144	
8/20/2021									
8/26/2021					123	93			86
8/27/2021	155								
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	145	105	57					154	
2/10/2022				56	127				77
2/11/2022						102	66		
8/30/2022		116			148				86
8/31/2022	137		46	51		92	33	141	
9/1/2022									

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	120	58							
	120	30	20	60	20				
6/7/2016			28	60	38				
6/8/2016						200	210	220	190
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	94	35	74		74				
7/28/2016				81					
8/1/2016						191	209	211	191
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		35	67						
9/19/2016	92			68	45				
9/20/2016						213	224	217	205
9/21/2016									
11/1/2016									
11/2/2016					53				
	104	40	41	61	55				
11/3/2016	104	48	41	61					
11/4/2016									
11/7/2016						284	291	301	264
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	133	95	104						
1/12/2017									
1/13/2017				76	46				
1/16/2017				70	40				
						150 (D)		26E (D)	167 (D)
1/18/2017						158 (D)	015 (D)	265 (D)	167 (D)
1/19/2017							215 (D)	.=-	
2/21/2017						137		158	
2/22/2017							262		
2/23/2017									253
2/24/2017									
3/1/2017	119	79							
3/2/2017			77						
3/3/2017									
3/6/2017				167	164				
3/7/2017									
3/8/2017									
4/26/2017	162	36		50	34				
4/27/2017	102	55		00	U-T				
4/28/2017									
5/1/2017									
5/2/2017			142						

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
5/3/2017						269			
5/5/2017									
5/8/2017							187	207	174
5/26/2017									
6/27/2017									
6/28/2017	98	45							
6/29/2017			53	94	68				
6/30/2017							209		193
7/5/2017									
7/7/2017									
7/10/2017						183		219	
7/11/2017									
7/17/2017									
10/3/2017				149					
10/4/2017		45	61	140	54				
10/5/2017	104	45	01		5 4				
10/6/2017	104						183		
10/9/2017							165		185
						170		194	100
10/10/2017						179		194	
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018				109					
6/6/2018					79				
6/7/2018	68								
6/8/2018									
6/11/2018		74	70						
6/12/2018							208		
6/13/2018						196		228	219
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	109	63	86	122	73				
9/26/2018									
10/1/2018									
10/2/2018						191	206	227	227
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019							221		198

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
4/2/2019			72	134		224		223	
4/3/2019	89	63			57				
6/12/2019									
9/24/2019				157					
9/25/2019			81		75	190		225	
9/26/2019	126	72					225		198
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020						194			
3/20/2020							182	211	195
3/24/2020	91	59	71	117	76				
3/25/2020									
9/22/2020									
9/23/2020	103	81	99						
9/24/2020				113	69	171	185	212	186
9/25/2020									
3/1/2021									
3/2/2021						154			
3/3/2021	95	37	57		53		178	205	173
3/4/2021				110					
8/19/2021						176			
8/20/2021							169	224	196
8/26/2021		31							
8/27/2021	112		93		67				
9/1/2021				137					
9/3/2021									
2/8/2022							159		
2/9/2022	103	60	81	131	72				
2/10/2022						168		207	190
2/11/2022									
8/30/2022	100	52	81	122					
8/31/2022					62	206		228	
9/1/2022							124		193

	Υ	GWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016	2	10	150	240					
7/25/201									
7/26/201									
7/27/201									
7/28/201									
8/1/2016									
8/2/2016		02	155	226					
8/30/201					319				
8/31/201						209			
9/13/201									
9/14/201							152		
9/15/201									
9/16/201									
9/19/201									
9/20/201									
9/21/201		16	138	214					
11/1/201									
11/2/201									
11/3/201									
11/4/201							148		
11/7/201		99	291						
11/8/201				229					
11/14/20					280				
11/28/20						102			
12/15/20							191		
1/10/201									
1/11/201									
1/12/201									
1/13/201									
1/16/201							180		
1/18/201		15 (D)		243 (D)					
1/19/201			145 (D)	, ,					
2/21/201		98							
2/22/201			185	310		164			
2/23/201	7								
2/24/201					162				
3/1/2017									
3/2/2017									
3/3/2017							156		
3/6/2017									
3/7/2017									
3/8/2017									
4/26/201									
4/27/201									
4/28/201							130		
5/1/2017									
5/2/2017									

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	347		289					
5/8/2017		114		194	145			
5/26/2017						223		
6/27/2017								
6/28/2017						166		
6/29/2017								
6/30/2017								
7/5/2017		136	217					
7/7/2017	236							
7/10/2017								
7/11/2017				193				
7/17/2017					185			
10/3/2017						153		
10/4/2017								
10/5/2017		139	221					
10/6/2017								
10/9/2017	204							
10/10/2017				175				
10/11/2017				175			68	
10/11/2017							00	74
10/12/2017					218			74
					210		120	170
11/20/2017	,						139	179
1/10/2018							150	140
1/11/2018					170		153	440
2/19/2018					173		07	119
2/20/2018				400			87	
4/2/2018				192				
4/3/2018							85	106
6/5/2018								
6/6/2018								
6/7/2018						146		
6/8/2018								
6/11/2018		156						
6/12/2018	243		234					
6/13/2018								
6/28/2018							88	112
8/6/2018					158			
8/7/2018							89	103
9/19/2018				186				
9/24/2018							82	107
9/25/2018								
9/26/2018								
10/1/2018						155		
10/2/2018		154						
10/3/2018	237		232					
2/25/2019					92			
3/26/2019								90
3/27/2019				170			75	
3/28/2019								
3/29/2019						150		
4/1/2019		147	238					

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019	<25							
4/3/2019								
6/12/2019					226			
9/24/2019						146		
9/25/2019		162						
9/26/2019	239		241					
10/8/2019				172	276			
10/9/2019							119	98
3/17/2020				165	185			
3/18/2020								
3/19/2020	202		212			148		
3/20/2020		137						
3/24/2020								84
3/25/2020							158	
9/22/2020				141	281			
9/23/2020						161		
9/24/2020	226	133	209				170	77
9/25/2020								
3/1/2021				145				
3/2/2021					296			
3/3/2021	217	110	184			138		
3/4/2021							168	57
8/19/2021				134				
8/20/2021	192	110	194		254			
8/26/2021							249	
8/27/2021						150		
9/1/2021								
9/3/2021								88
2/8/2022	216	120	206	151	283		248	93
2/9/2022						156		
2/10/2022								
2/11/2022								
8/30/2022					244	153		
8/31/2022				116			242	92
9/1/2022	225	128	186					

FIGURE E.

Appendix III Trend Tests - Prediction Limits - Significant Results

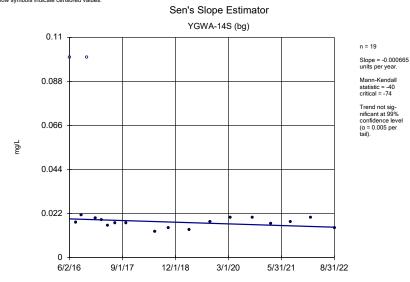
	Plant Yates	Data: Yates	Data: Yates Ash Pond 2 Printed 10/12/2022, 1:28 PM								
Constituent	Well	Slope	Calc.	Critical	Sig.	<u>N</u>	%NDs	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Boron (mg/L)	YGWC-26I	-0.04321	-87	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-29I	-0.02727	-92	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01529	-77	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.0435	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26I	-0.3776	-77	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26S	-0.5557	-95	-74	Yes	19	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-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-40 (bg)	0.326	66	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
Chloride (mg/L)	GWA-2 (bg)	0.2567	74	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-14.82	-90	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	30.24	64	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-12.99	-99	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-2 (bg)	21.5	67	63	Yes	17	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limits - All Results

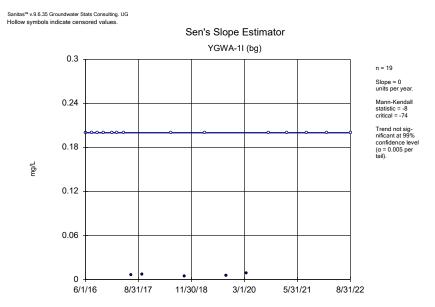
Client: Southern Company Data: Yates Ash Pond 2 Printed 10/12/2022, 1:28 PM Constituent Well Calc. Critical Sig. N %NDs Normality Xform <u>Alpha</u> Method Boron (mg/L) YGWA-14S (bg) -0.000665 -40 -74 No 19 10.53 n/a n/a 0.01 NP Boron (mg/L) YGWA-1D (bg) 0.0008221 34 74 No 19 36.84 n/a n/a 0.01 NP Boron (mg/L) YGWA-1I (bg) 0 -8 -74 No 19 73.68 n/a 0.01 NΡ YGWA-2I (bg) 0 NP Boron (mg/L) -6 No 19 78.95 n/a n/a 0.01 Boron (mg/L) YGWA-30I (bg) -19 No 19 84.21 n/a 0.01 NP n/a 0 Boron (mg/L) YGWA-3D (bg) 0 No 19 0.01 NP n/a n/a YGWA-3I (bg) -74 0.01 NP Boron (mg/L) -17 19 89.47 No n/a n/a YGWC-26I -0.04321 -87 -74 0 NP Boron (ma/L) Yes 19 n/a n/a 0.01 YGWC-26S 0.01343 NP 55 74 0 0.01 Boron (mg/L) No 19 n/a n/a Boron (mg/L) YGWC-27I 0.06844 60 74 No 19 0 n/a n/a 0.01 NP YGWC-27S -0.04234 NP Boron (mg/L) -52 -74 No 19 0 n/a n/a 0.01 YGWC-28I -0.02927 0 NP Boron (mg/L) -18 -74 No 19 n/a n/a 0.01 YGWC-28S n NP Boron (mg/L) -5 -74 No 19 0 n/a n/a 0.01 Boron (mg/L) YGWC-29I -0.02727 -92 -74 Yes 19 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-17S (bg) 0.0001704 22 74 No 19 10.53 n/a 0.01 NP Boron (mg/L) YGWA-18I (bg) -22 No 19 0.01 NP YGWA-18S (bg) 0.000309 24 74 No 19 21.05 0.01 NP Boron (mg/L) Boron (mg/L) YGWA-20S (bg) 0 -9 -74 No 19 n/a 0.01 NP NP Boron (mg/L) YGWA-21I (bg) -0.0004731 -56 No 19 57.89 0.01 n/a n/a Boron (mg/L) YGWA-39 (bg) 0.01331 56 58 16 6.25 0.01 NΡ No n/a n/a YGWA-40 (bg) -0.01529 -77 -58 NP Boron (mg/L) Yes 16 0 n/a n/a 0.01 0 YGWA-4I (bg) NP Boron (mg/L) 74 No 19 68.42 0.01 n/a n/a YGWA-5D (bg) 0.0003037 NP Boron (ma/L) 31 74 No 19 10.53 n/a n/a 0.01 YGWA-5I (bg) NP Boron (mg/L) 0 -25 -74 63.16 0.01 No 19 n/a n/a Boron (mg/L) GWA-2 (bg) 0 23 63 No 17 64.71 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 0 Chloride (mg/L) YGWA-1D (bg) -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-2I (bg) -0.02221 -34 -74 No 19 0 n/a 0.01 NΡ Chloride (mg/L) YGWA-30I (bg) 0 -8 -74 No 19 0 n/a n/a 0.01 NP Chloride (mg/L) YGWA-3D (bg) -0.0435 -80 -74 19 0 0.01 NP Chloride (mg/L) YGWA-3I (bg) -0.02929 -65 -74 19 0 n/a n/a 0.01 NP Chloride (mg/L) YGWC-26I -0.3776 -77 -74 19 0 0.01 NP Yes n/a n/a Chloride (mg/L) YGWC-26S -0.5557 -95 -74 19 0 n/a 0.01 ΝP Yes n/a Chloride (mg/L) YGWC-27I -74 0 NP -21 19 0.01 No n/a n/a YGWC-28S -0.2465 -74 0 0.01 NP Chloride (mg/L) -49 19 No n/a n/a YGWA-47 (bg) Chloride (mg/L) -0.4528 -84 -58 Yes 16 0 n/a n/a 0.01 NP YGWA-17S (ba) 0.5433 NP Chloride (mg/L) 127 74 19 0 0.01 Yes n/a n/a Chloride (mg/L) YGWA-18I (ba) 0.1027 78 74 Yes 19 0 n/a n/a 0.01 NP Chloride (mg/L) YGWA-18S (bg) 0.1557 74 NP 72 No 19 0 n/a n/a 0.01 Chloride (mg/L) YGWA-20S (bg) 0.1337 107 74 Yes 19 0 n/a n/a 0.01 NP YGWA-21I (bg) NP Chloride (mg/L) -0 1148 -56 -74 No 19 0 n/a n/a 0.01 Chloride (mg/L) YGWA-39 (bg) 0.768 51 58 No 16 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-4I (bg) 0.08123 41 74 19 0 0.01 ΝP No n/a Chloride (mg/L) YGWA-5D (bg) -0.7454 -124 -74 Yes 19 0 n/a n/a 0.01 NP YGWA-5I (bg) 0 74 NP Chloride (mg/L) 5 No 19 0 n/a n/a 0.01 Chloride (mg/L) GWA-2 (bg) 0.2567 74 63 17 0 n/a n/a 0.01 ΝP Yes

Appendix III Trend Tests - Prediction Limits - All Results

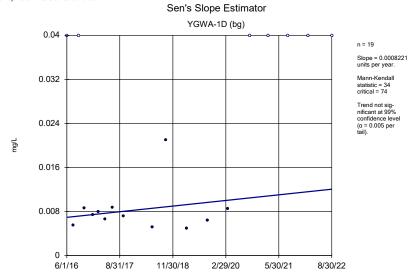
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Constituent	Well		Slope	Calc.	Critical	Sig.	<u>N</u>	%NDs	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Total Dissolved Solids (mg/L)	YGWA-14S (bg)		0.3698	12	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)		0.7444	13	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1I (bg)		-2.443	-37	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-2I (bg)		-1.72	-28	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-30I (bg)		2.114	27	74	No	19	10.53	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)		0.7739	9	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3I (bg)		0.954	9	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-26I		-0.5252	-6	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-28S		-1.335	-9	-74	No	19	5.263	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)		-14.82	-90	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-17S (bg)		3.694	44	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18I (bg)		-0.8196	-19	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18S (bg)		0.4345	10	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-20S (bg)		2.688	34	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)		10.54	68	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)		30.24	64	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-40 (bg)		-11.03	-58	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-4I (bg)		0	-1	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)		-12.99	-99	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5I (bg)		0	3	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-2 (bg)		21.5	67	63	Yes	17	0	n/a	n/a	0.01	NP



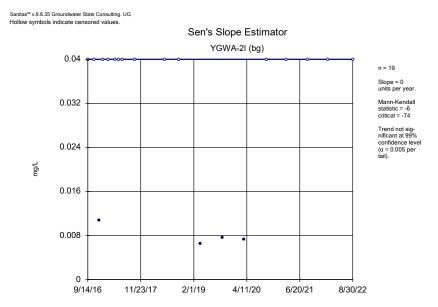
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

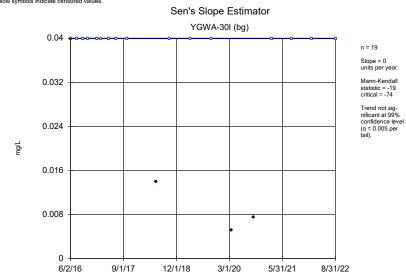


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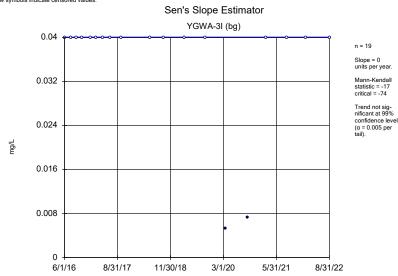
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



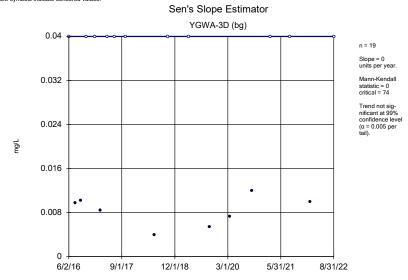
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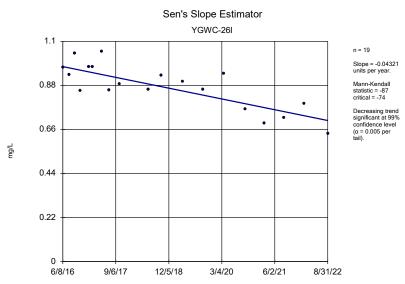


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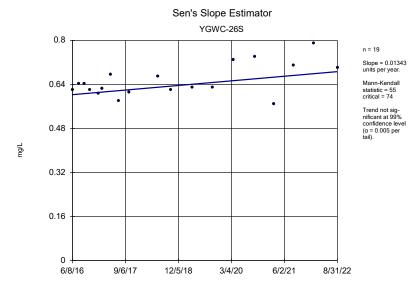
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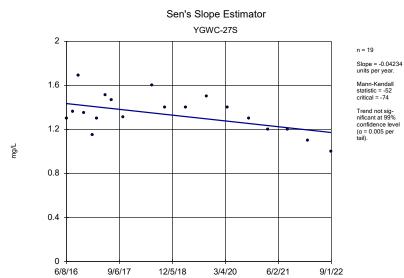
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



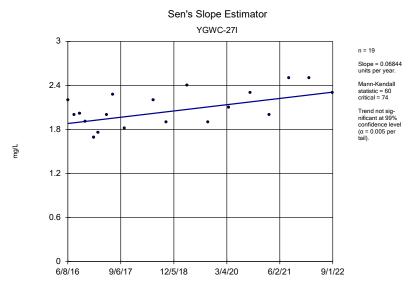
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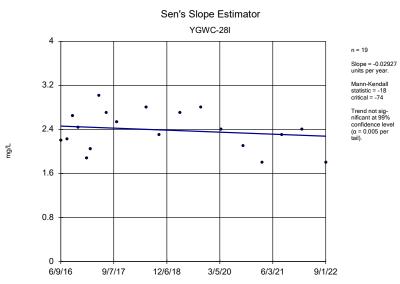
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



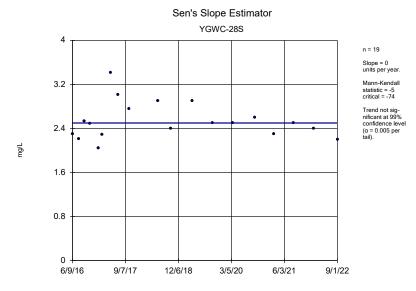
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



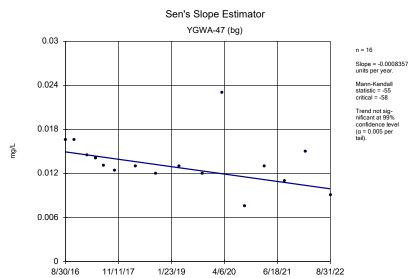
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



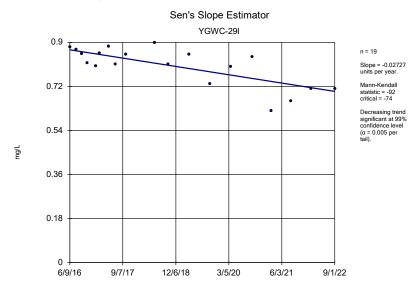
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Boron Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Boron Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

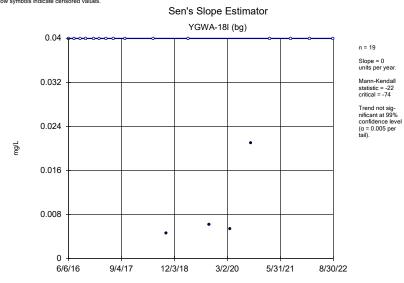


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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

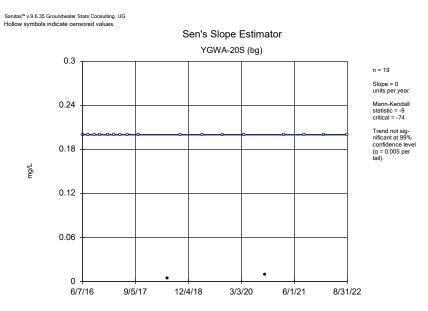
Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



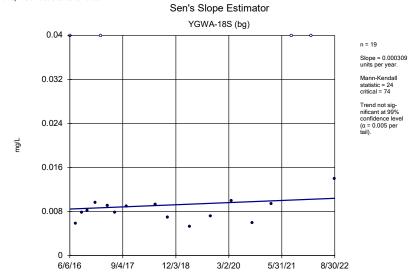
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



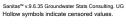
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

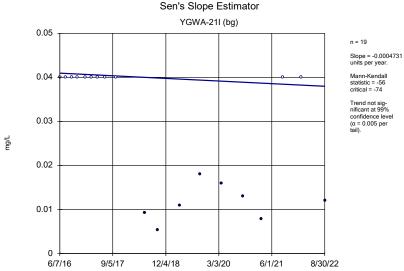


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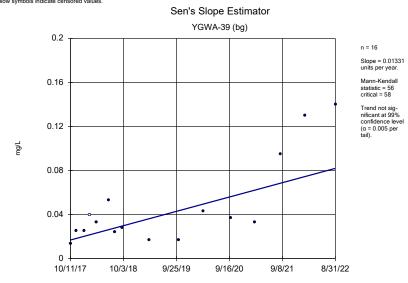


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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

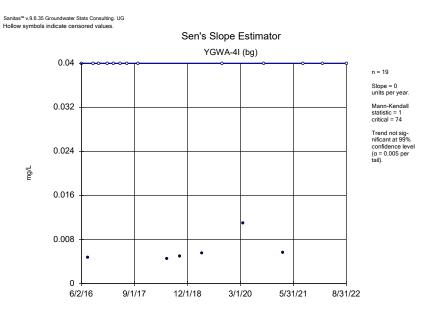




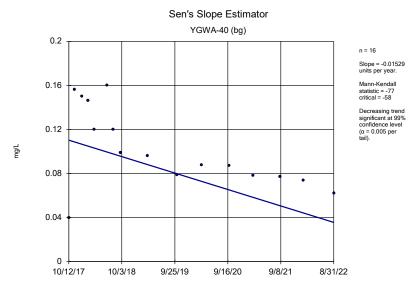
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



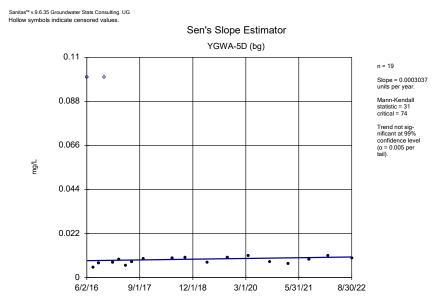
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Boron Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

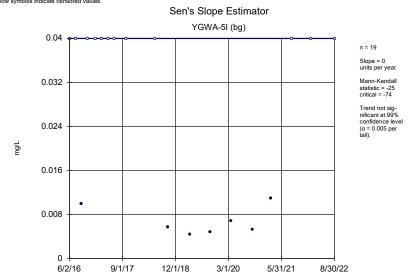


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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



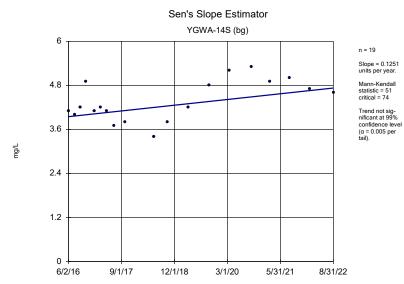
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



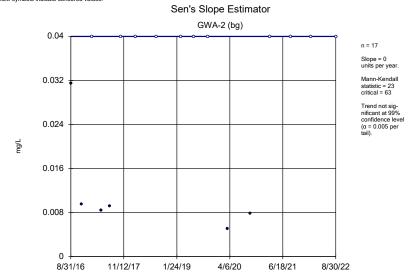
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

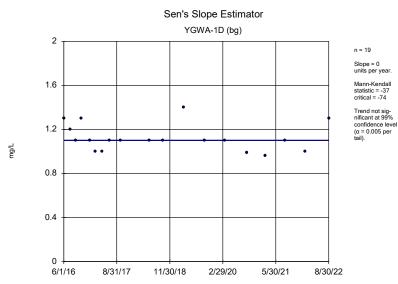


Constituent: Chloride Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

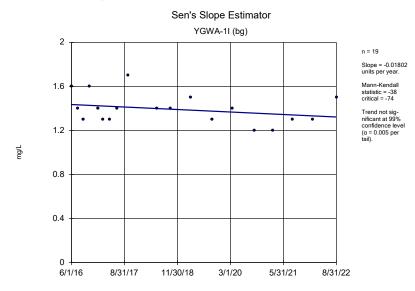
Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Boron Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

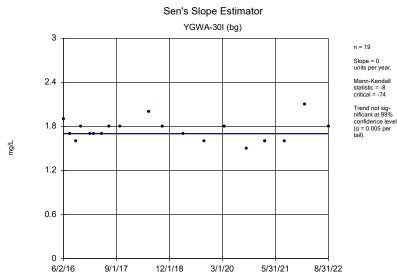


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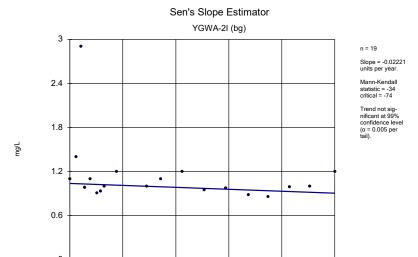


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Plant Yates Client: Southern Company Data: Yates Ash Pond 2





Constituent: Chloride Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Chloride Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

2/1/19

4/11/20

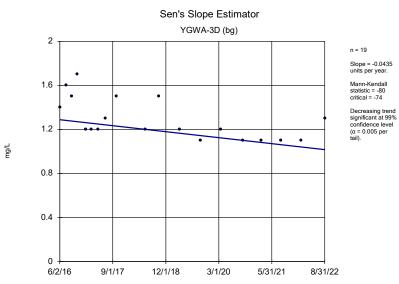
6/20/21

8/30/22

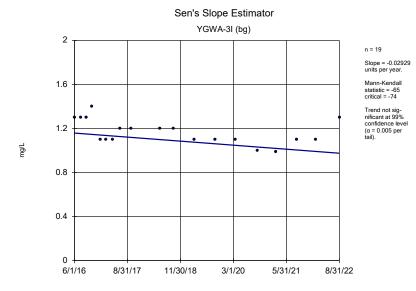
Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

9/14/16

11/23/17

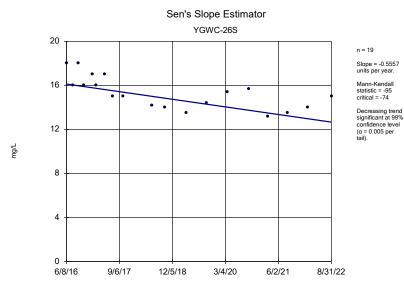


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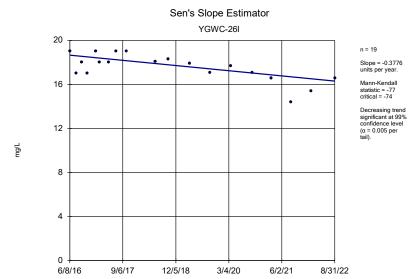


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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

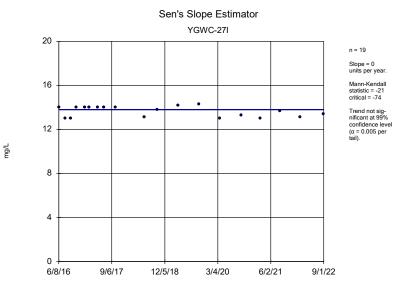




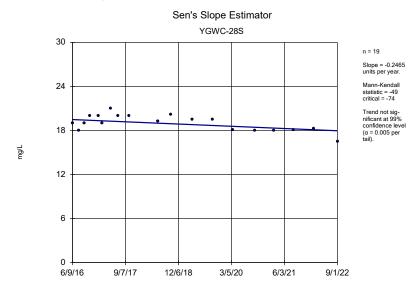
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



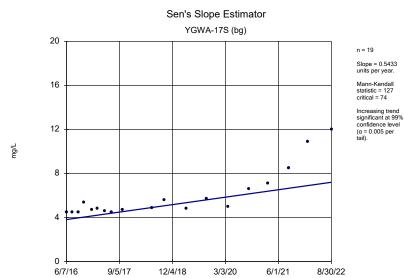
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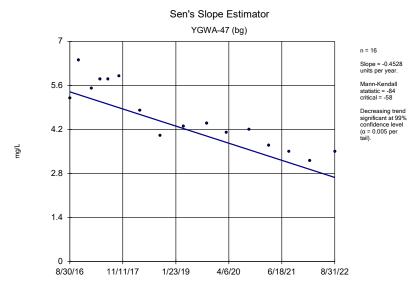
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



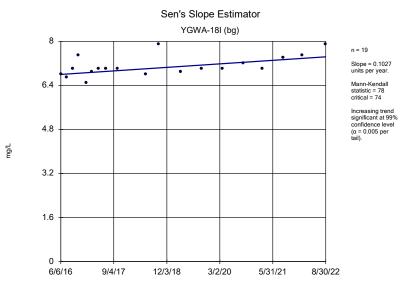
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



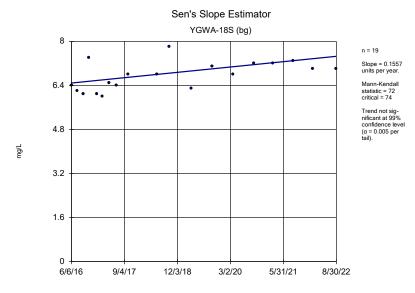
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



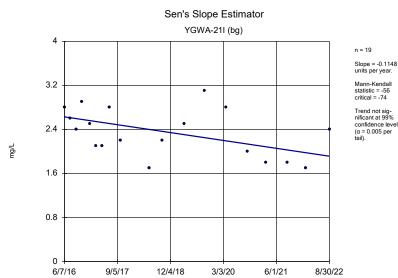
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



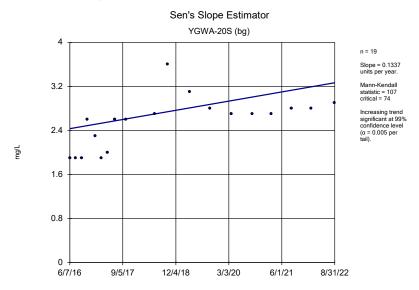
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



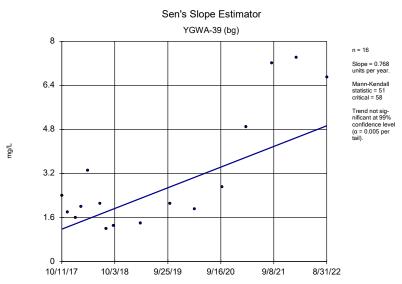
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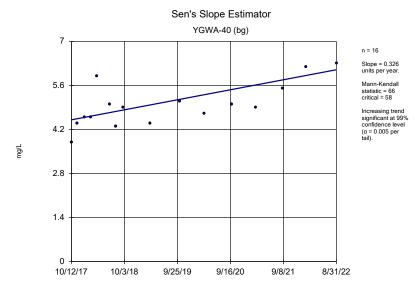
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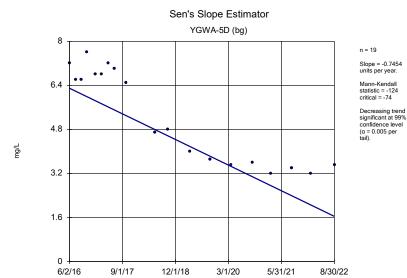
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



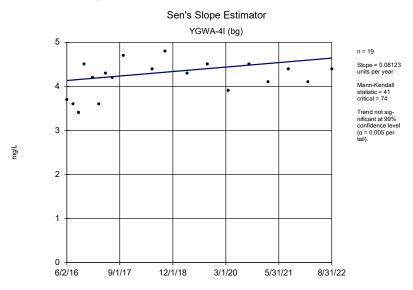
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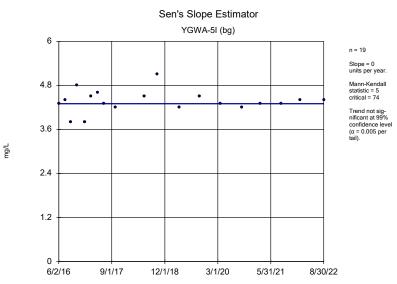
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



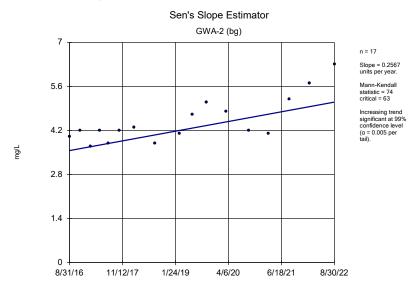
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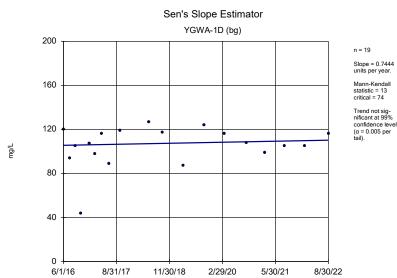
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Chloride Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
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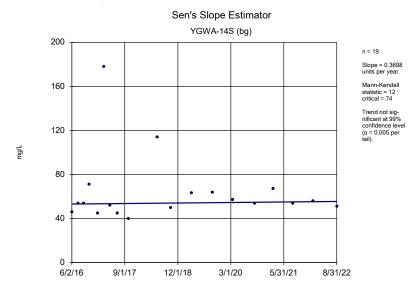


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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

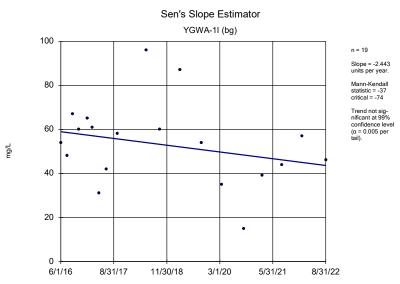


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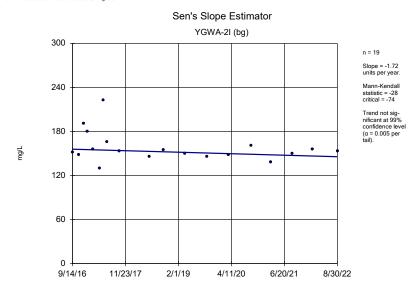
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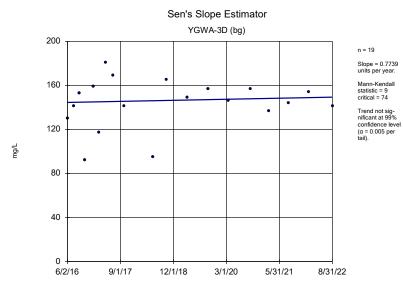
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



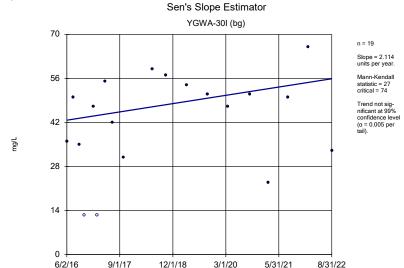
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



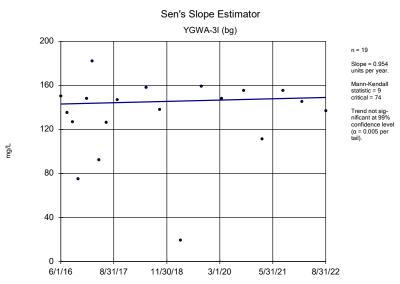
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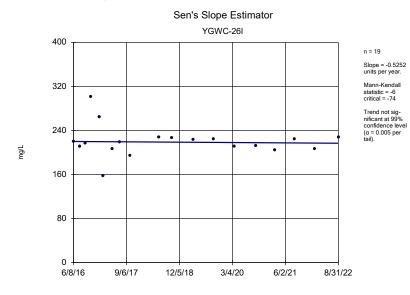
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



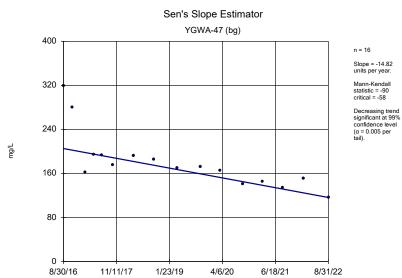
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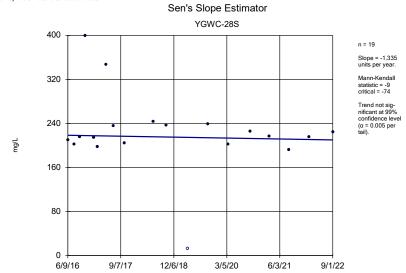
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



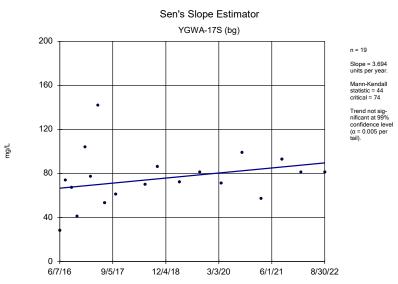
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



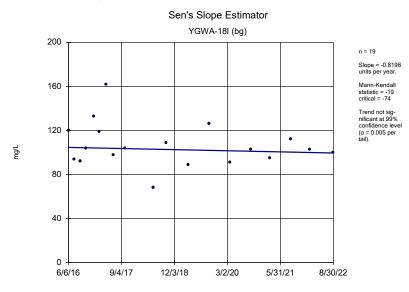
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:26 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:26 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

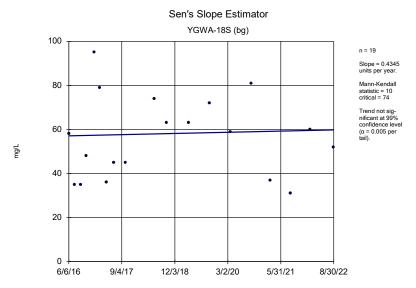


Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:26 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG Sen's Slope Estimator YGWA-20S (bg) 200 n = 19 Slope = 2.688 units per year. 160 Mann-Kendall statistic = 34 critical = 74 Trend not sig-nificant at 99% confidence level 120 (α = 0.005 per tail). 80 40 6/7/16 9/5/17 12/4/18 3/3/20 6/1/21 8/31/22

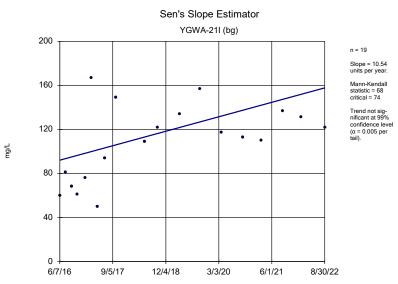
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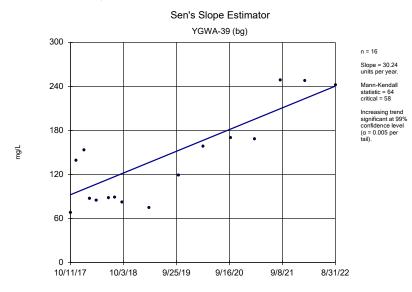


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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG



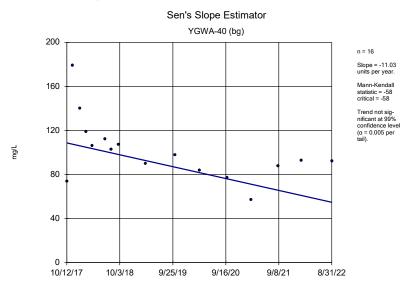
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:26 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

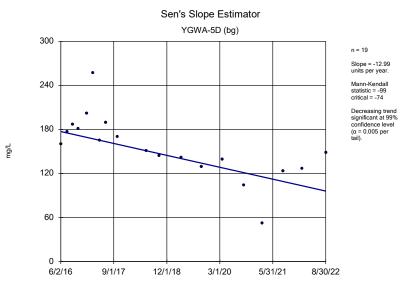
Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG Sen's Slope Estimator YGWA-4I (bg) 200 n = 19 Slope = 0 units per year. 160 Mann-Kendall critical = -74 Trend not sig-nificant at 99% confidence level 120 (α = 0.005 per tail). 80 40 6/2/16 9/1/17 12/1/18 3/1/20 5/31/21 8/31/22

Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:26 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:26 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

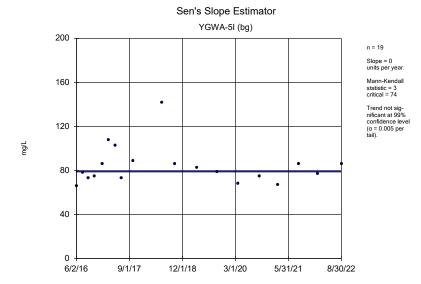
Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG



Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:26 PM View: Appendix III - Trend Tests

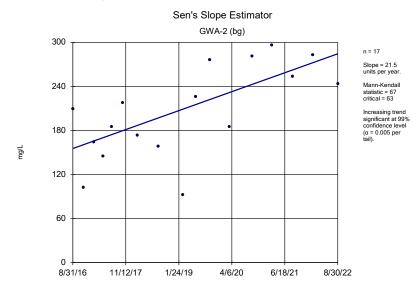
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Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG



Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:26 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG



Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:26 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE F.

Upper Tolerance Limit Summary Table

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/12/2022, 1:41 PM

Constituent	Well	Upper Lin	n. Lower Lin	n. <u>Date</u>	Observ.	Sig.Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transforn	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 G.

YATES	ASH POND 2	2 GWPS		
		CCR-Rule	Background	
Constituent Name	MCL	Specified	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)		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)		0.015	0.0013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)		0.1	0.014	0.1
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 or CCR Rule Specified Level

^{*}MCL = Maximum Contaminant Level

^{*}CCR = Coal Combustion Residual

^{*}GWPS = Groundwater Protection Standard

FIGURE H.

Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/12/2022, 1:45 PM

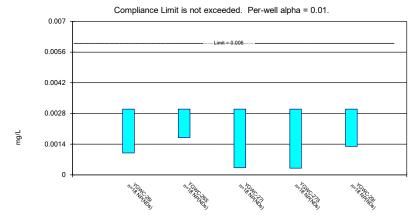
Constituent	<u>Well</u>	Upper Lim.	Lower Lim.	Complianc	e Lower Compl.	Sig.	N Mean	Std. Dev.	%NDs	<u>ND Adj.</u>	Transform	<u>Alpha</u>	Method
Antimony (mg/L)	YGWC-26I	0.003	0.001	0.006	n/a	No	18 0.002617	0.0008852	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	n/a	No	18 0.00285	0.0004369	88.89	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	n/a	No	18 0.002852	0.0006293	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	n/a	No	18 0.00285	0.0006364	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29I	0.003	0.0013	0.006	n/a	No	18 0.002906	0.0004007	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26I	0.005	0.0028	0.01	n/a	No	22 0.0049	0.000469	95.45	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26S	0.005	0.0032	0.01	n/a	No	22 0.004918	0.0003838	95.45	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.00069	0.01	n/a	No	22 0.003384	0.002106	59.09	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27S	0.005	0.0019	0.01	n/a	No	22 0.004859	0.0006609	95.45	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28I	0.005	0.0021	0.01	n/a	No	22 0.004868	0.0006183	95.45	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.0007	0.01	n/a	No	22 0.003396	0.002103	59.09	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-29I	0.005	0.0033	0.01	n/a	No	22 0.004923	0.0003624	95.45	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06586	0.06224	2	n/a	No	22 0.06405	0.003371	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02857	0.02615	2	n/a	No	22 0.02736	0.002251	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.07429	0.0662	2	n/a	No	22 0.07043	0.007667	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	YGWC-27S	0.1028	0.08614	2	n/a	No	22 0.09447	0.01551	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28I	0.08914	0.08214	2	n/a	No	22 0.08564	0.006525	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.2208	0.196	2	n/a	No	22 0.2041	0.03667	0	None	x^3	0.01	Param.
Barium (mg/L)	YGWC-29I	0.0725	0.057	2	n/a	No	22 0.0718	0.03199	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0002048	0.0001127	0.004	n/a	No	20 0.0001767		10	None	ln(x)	0.01	Param.
Beryllium (mg/L)	YGWC-27I	0.0002555	0.0001418	0.004	n/a	No	20 0.0002183		15	None	ln(x)	0.01	Param.
Beryllium (mg/L)	YGWC-27S	0.0005	0.00011	0.004	n/a	No	20 0.0004588		90	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.0002875	0.0001345	0.005	n/a	No	20 0.000244	0.0001665	10	None	ln(x)	0.01	Param.
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	n/a	No	20 0.000499	0.000004472		None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29I	0.0003061	0.0001768	0.005	n/a	No	20 0.00025	0.0001228	15	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	YGWC-26I	0.005	0.00067	0.1	n/a	No	20 0.003472	0.002128	60	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002218	0.001077	0.1	n/a	No	20 0.002699	0.001764	25	Kaplan-Meier		0.01	Param.
Chromium (mg/L)	YGWC-27I	0.012	0.005	0.1	n/a	No	20 0.00535	0.001565	95	Kaplan-Meier	. ,	0.01	NP (NDs)
Chromium (mg/L)	YGWC-27S	0.005	0.0041	0.1	n/a	No	20 0.004672	0.002932	70	Kaplan-Meier		0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	n/a	No	20 0.00432	0.00166	85	Kaplan-Meier		0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0006	0.1	n/a	No	20 0.004329	0.001638	85	Kaplan-Meier		0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.005	0.0005	0.1	n/a	No	20 0.004775	0.001006	95	Kaplan-Meier		0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002713	0.001916	0.035	n/a	No	22 0.002355	0.0008064		None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.01438	0.003531	0.035	n/a	No	22 0.0169	0.02524	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.0025	0.0022	0.035	n/a	No	22 0.002405	0.0006579		None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	n/a	No	22 0.004792	0.0009765		None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00091	0.035	n/a	No	22 0.001348	0.001191		None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.00094	0.035	n/a	No	22 0.004003	0.001885		None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L		1.031	0.4627	6.92	n/a	No	21 0.747	0.5154		None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L		0.8376	0.5376	6.92	n/a	No	22 0.6876	0.2794		None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L	.) YGWC-27I	3.837	2.557	6.92	n/a	No	22 3.197	1.193	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L	.) YGWC-27S	1.016	0.6208	6.92	n/a	No	22 0.8185	0.3682	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L	.) YGWC-28I	0.8358	0.4705	6.92	n/a	No	22 0.6531	0.3403	4.545	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L) YGWC-28S	0.9184	0.5085	6.92	n/a	No	22 0.7134	0.3818		None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L		1.069	0.6371	6.92	n/a	No	22 0.8529	0.4021	4.545	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.064	4	n/a	No	23 0.084	0.02018		None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.076	4	n/a	No	23 0.1278	0.09345		None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.1	0.07	4	n/a	No	23 0.09096	0.02523		None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.1863	0.09639	4	n/a	No	23 0.1559	0.09941		Kaplan-Meier		0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.12	0.078	4	n/a	No	23 0.1226	0.0776		None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2523	0.152	4	n/a	No	23 0.2021	0.09584	8.696	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.08971	0.06021	4	n/a	No	23 0.08596	0.0301	30.43	Kaplan-Meier	x^(1/3)	0.01	Param.

Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/12/2022, 1:45 PM

Constituent	Well	Upper Lim.	Lower Lim.	Complianc	e Lower Compl.	Sig.	N Mean	Std. Dev.	%ND:	s ND Adj.	Transform	Alpha	Method
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.015	n/a	No	18 0.000895	0.0003056	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.00008	0.015	n/a	No	18 0.0007417	0.0004287	72.22	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.001	0.00037	0.015	n/a	No	18 0.0007998	0.0003525	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.001	0.00007	0.015	n/a	No	18 0.0007397	0.000432	72.22	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29I	0.001	0.00016	0.015	n/a	No	18 0.0008512	0.0003428	83.33	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007313	0.006641	0.04	n/a	No	22 0.006977	0.0006264	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.009973	0.007809	0.04	n/a	No	22 0.008891	0.002016	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.0013	0.04	n/a	No	22 0.02737	0.008517	90.91	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.007079	0.006675	0.04	n/a	No	22 0.006877	0.0003766	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.04	n/a	No	22 0.02888	0.005266	95.45	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29I	0.0066	0.0053	0.04	n/a	No	22 0.007018	0.005198	4.545	None	No	0.01	NP (normality)
Mercury (mg/L)	YGWC-26I	0.0002	0.000051	0.002	n/a	No	16 0.0001814	0.00005089	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-26S	0.0002	0.000066	0.002	n/a	No	16 0.0001822	0.00004877	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27I	0.0002	0.000054	0.002	n/a	No	16 0.0001812	0.00005143	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27S	0.0002	0.00019	0.002	n/a	No	16 0.00018	0.00005278	81.25	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28I	0.0002	0.000048	0.002	n/a	No	16 0.0001905	0.000038	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28S	0.0002	0.000052	0.002	n/a	No	16 0.0001907	0.000037	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-29I	0.0002	0.000047	0.002	n/a	No	16 0.0001804	0.00005365	87.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-27I	0.01	0.0015	0.1	n/a	No	22 0.005477	0.004267	45.45	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.1	n/a	No	22 0.004814	0.004418	40.91	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00083	0.1	n/a	No	22 0.007895	0.003972	77.27	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29I	0.01	0.00083	0.1	n/a	No	22 0.009583	0.001955	95.45	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.003014	0.001996	0.05	n/a	No	20 0.002625	0.001076	10	None	ln(x)	0.01	Param.
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	n/a	No	20 0.004215	0.001624	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	n/a	No	20 0.00481	0.0008497	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	n/a	No	20 0.0048	0.0008944	95	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-26S	0.001	0.000057	0.002	n/a	No	16 0.000882	0.0003224	87.5	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-27S	0.001	0.0001	0.002	n/a	No	16 0.0006644	0.0004475	62.5	None	No	0.01	NP (NDs)

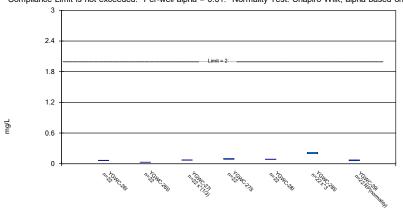
Non-Parametric Confidence Interval



Constituent: Antimony Analysis Run 10/12/2022 1:44 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

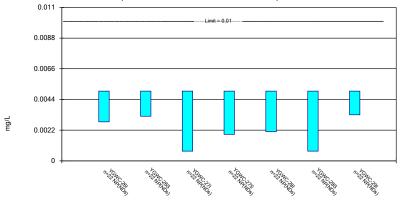
Parametric and Non-Parametric (NP) Confidence Interval Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 10/12/2022 1:44 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

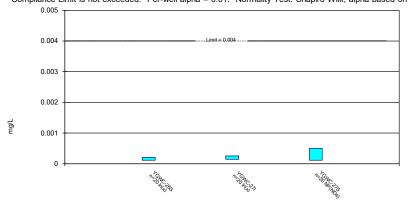


Constituent: Arsenic Analysis Run 10/12/2022 1:44 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

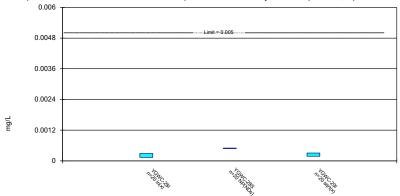
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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.

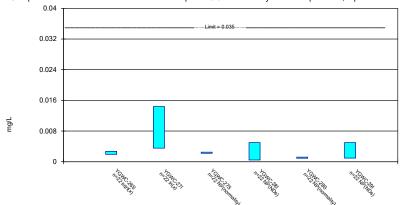


Constituent: Cadmium Analysis Run 10/12/2022 1:44 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

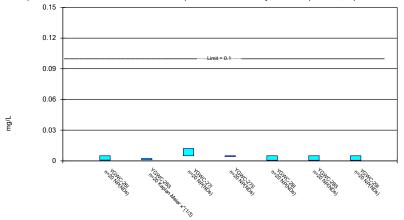
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 10/12/2022 1:44 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

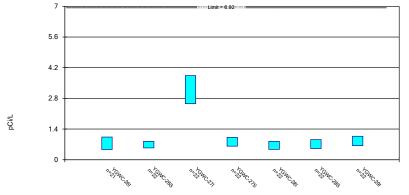


Constituent: Chromium Analysis Run 10/12/2022 1:44 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

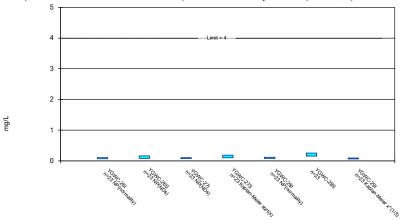
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

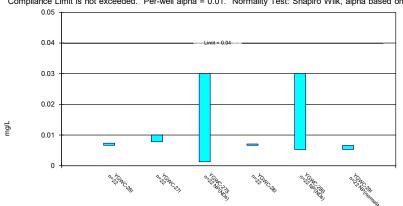


Constituent: Fluoride Analysis Run 10/12/2022 1:45 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

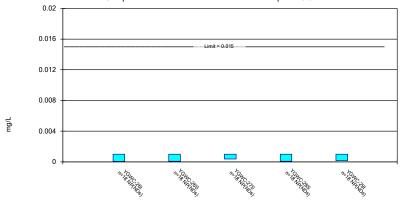
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

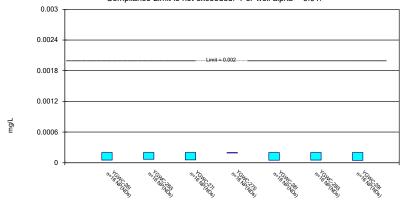


Constituent: Lead Analysis Run 10/12/2022 1:45 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Constituent: Molybdenum Analysis Run 10/12/2022 1:45 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

0.0024

0.0018

0.0012

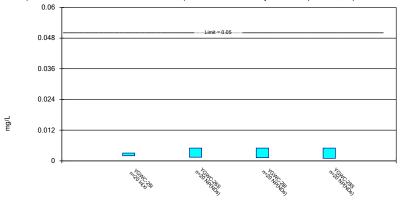
0.0006

Constituent: Thallium Analysis Run 10/12/2022 1:45 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

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 10/12/2022 1:45 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Constituent: Antimony (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-29I
6/8/2016	<0.003	<0.003	<0.003	<0.003	
6/9/2016					<0.003
8/1/2016	<0.003	<0.003	<0.003	<0.003	
8/2/2016					<0.003
9/20/2016	<0.003	<0.003	<0.003	<0.003	
9/21/2016					<0.003
11/7/2016	<0.003	<0.003	<0.003	<0.003	<0.003
1/18/2017	<0.003	<0.003	<0.003		
1/19/2017				<0.003	<0.003
2/21/2017	<0.003	<0.003			
2/22/2017				<0.003	<0.003
2/23/2017			<0.003		
5/3/2017		<0.003			
5/8/2017	<0.003		<0.003	<0.003	<0.003
6/30/2017			<0.003	<0.003	
7/5/2017					<0.003
7/10/2017	<0.003	<0.003			
3/29/2018			<0.003	<0.003	<0.003
3/30/2018	<0.003	<0.003			
2/27/2019	<0.003	<0.003	<0.003	<0.003	<0.003
2/13/2020	0.00052 (J)	0.0016 (J)	<0.003	<0.003	<0.003
3/19/2020		0.0017 (J)			
3/20/2020	0.00059 (J)		0.00033 (J)	0.0003 (J)	<0.003
9/24/2020	<0.003	<0.003	<0.003	<0.003	0.0013 (J)
2/10/2021	<0.003	<0.003	<0.003	<0.003	
2/12/2021					<0.003
3/2/2021		<0.003			
3/3/2021	<0.003		<0.003	<0.003	<0.003
8/19/2021		<0.003			
8/20/2021	<0.003		<0.003	<0.003	<0.003
2/8/2022				<0.003	<0.003
2/10/2022	<0.003	<0.003	<0.003		
8/31/2022	0.001 (J)	<0.003			
9/1/2022			<0.003	<0.003	<0.003
Mean	0.002617	0.00285	0.002852	0.00285	0.002906
Std. Dev.	0.0008852	0.0004369	0.0006293	0.0006364	0.0004007
Upper Lim.	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.001	0.0017	0.00033	0.0003	0.0013

 $\label{lem:constituent: Arsenic (mg/L)} \begin{array}{ccc} \text{Constituent: Arsenic (mg/L)} & \text{Analysis Run 10/12/2022 1:45 PM} & \text{View: Appendix IV} \\ & \text{Plant Yates} & \text{Client: Southern Company} & \text{Data: Yates Ash Pond 2} \\ \end{array}$

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	<0.005	0.0011 (J)	<0.005			
6/9/2016					<0.005	0.00094 (J)	<0.005
8/1/2016	<0.005	<0.005	0.0009 (J)	<0.005			
8/2/2016					<0.005	<0.005	<0.005
9/20/2016	<0.005	<0.005	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	<0.005	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	<0.005				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		<0.005					
5/5/2017					<0.005	<0.005	
5/8/2017	<0.005		0.0006 (J)	<0.005	0.000	0.000	<0.005
6/30/2017	-0.000		<0.005 (*)	<0.005 (*)			-0.000
7/5/2017			10.000 ()	10.000 ()	<0.005		<0.005
7/7/2017					10.000	0.0007 (J)	-0.000
7/10/2017	<0.005	<0.005				0.0007 (3)	
3/29/2018	-0.000	-0.000	0.0006 (J)	<0.005			<0.005
3/30/2018	<0.005	<0.005	0.0000 (3)	10.000	<0.005	0.00069 (J)	10.000
6/11/2018	10.003	10.003			10.000	0.00003 (3)	<0.005
6/12/2018				<0.005	<0.005	0.00075 (J)	10.003
6/13/2018	<0.005	<0.005	<0.005	-0.000	10.000	0.00070 (0)	
10/2/2018	<0.005	<0.005	<0.005	<0.005			<0.005
10/3/2018	10.003	10.005	40.000	10.000	<0.005	0.0007 (J)	10.003
2/27/2019	<0.005	<0.005	0.00069 (J)	<0.005	<0.005	<0.005	<0.005
4/1/2019	10.003	10.003	<0.005	<0.005	<0.005	40.003	<0.005
4/2/2019	<0.005	<0.005	40.000	10.000	10.000	<0.005	10.000
9/25/2019	<0.005	<0.005				40.003	<0.005
9/26/2019	-0.000	-0.000	0.00058 (J)	<0.005	<0.005	0.00057 (J)	-0.000
2/13/2020	<0.005	<0.005	0.00055 (J)	<0.005	<0.005	0.00067 (U)	<0.005
3/19/2020	-0.000	<0.005	0.00000 (0)	-0.000	<0.005	0.00055 (J)	-0.000
3/20/2020	<0.005	10.003	0.00042 (J)	<0.005	10.000	0.00031 (3)	<0.005
9/24/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2021	<0.005	<0.005	<0.005	<0.005	10.000	-0.000	-0.000
2/11/2021	-0.000	-0.000	-0.000	-0.000	<0.005		
2/12/2021					10.000	<0.005	<0.005
3/2/2021		<0.005				40.003	10.000
3/3/2021	<0.005	10.003	<0.005	<0.005	<0.005	<0.005	<0.005
8/19/2021	10.003	<0.005	40.000	10.000	40.003	10.000	10.003
8/20/2021	<0.005	-0.000	<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2022	10.003		40.000	0.0019 (J)	0.0021 (J)	0.0042 (J)	0.0033 (J)
2/10/2022	0.0028 (J)	0.0032 (J)	0.004 (J)	0.0013 (0)	0.0021(0)	0.0042 (3)	0.0055 (0)
8/31/2022	<0.005	<0.005	0.004 (0)				
9/1/2022	-0.000	-0.000	<0.005	<0.005	<0.005	<0.005	<0.005
Mean	0.0049	0.004918	0.003	0.004859	0.004868	0.003396	0.003
Std. Dev.	0.0049	0.004918	0.003384	0.004659	0.004868	0.003390	0.004923
Upper Lim.	0.005	0.005	0.002100	0.005	0.005	0.002103	0.005
Lower Lim.	0.003	0.003	0.00069	0.003	0.003	0.0007	0.003
LOWGI LIIII.	0.0020	0.0002	0.00000	0.0010	0.0021	0.0007	0.0000

Constituent: Barium (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.068	0.029	0.081	0.12			
6/9/2016					0.1	0.22	0.082
8/1/2016	0.0688	0.0316	0.0838	0.115			
8/2/2016					0.0836	0.212	0.0781
9/20/2016	0.0663	0.0298	0.0687	0.108			
9/21/2016					0.0889	0.228	0.0782
11/7/2016	0.065	0.0289	0.0639	0.102		0.214	0.0712
11/8/2016					0.0886		
1/18/2017	0.0625	0.0278	0.0645		0.0862	0.213	
1/19/2017				0.102			0.0689
2/21/2017	0.0655	0.0282				0.222	
2/22/2017				0.106	0.0915		0.0741
2/23/2017			0.0728				
5/3/2017		0.0282					
5/5/2017					0.0891	0.219	
5/8/2017	0.0699		0.0721	0.102			0.0725
6/30/2017			0.0666	0.0963			
7/5/2017					0.0862		0.0677
7/7/2017						0.205	
7/10/2017	0.0691	0.0274					
3/29/2018			0.062	0.097			0.055
3/30/2018	0.063	0.026			0.087	0.2	
6/11/2018							0.068
6/12/2018				0.095	0.088	0.21	
6/13/2018	0.064	0.026	0.063				
10/2/2018	0.066	0.026	0.062	0.1			0.067
10/3/2018					0.092	0.22	
2/27/2019	0.065	0.027	0.066	0.096	0.086	0.21	0.067
4/1/2019			0.066	0.099	0.088		0.063
4/2/2019	0.065	0.027				0.2	
9/25/2019	0.063	0.026					0.061
9/26/2019			0.065	0.099	0.087	0.18	
2/13/2020	0.06	0.025	0.063	0.097	0.089	0.21	0.053
3/19/2020		0.027			0.089	0.2	
3/20/2020	0.063		0.062	0.095			0.057
9/24/2020	0.058	0.025	0.069	0.087	0.079	0.18	0.056
2/10/2021	0.06	0.031	0.08	0.088			
2/11/2021					0.078		
2/12/2021						0.057	0.21
3/2/2021		0.031					
3/3/2021	0.064		0.08	0.075	0.077	0.25	0.059
8/19/2021		0.023					
8/20/2021	0.063		0.083	0.082	0.079	0.24	0.057
2/8/2022				0.068	0.083	0.2	0.057
2/10/2022	0.063	0.027	0.079				
8/31/2022	0.057	0.024					
9/1/2022			0.076	0.049	0.068	0.2	0.057
Mean	0.06405	0.02736	0.07043	0.09447	0.08564	0.2041	0.0718
Std. Dev.	0.003371	0.002251	0.007667	0.01551	0.006525	0.03667	0.03199
Upper Lim.	0.06586	0.02857	0.07429	0.1028	0.08914	0.2208	0.0725
Lower Lim.	0.06224	0.02615	0.0662	0.08614	0.08214	0.196	0.057

Constituent: Beryllium (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-27I	YGWC-27S
6/8/2016	<0.0005	<0.0005	<0.0005
8/1/2016	0.0002 (J)	<0.0005	<0.0005
9/20/2016	0.0001 (J)	9E-05 (J)	<0.0005
11/7/2016	0.0001 (J)	0.0001 (J)	<0.0005
1/18/2017	0.0002 (J)	0.0002 (J)	
1/19/2017			<0.0005
2/21/2017	0.0002 (J)		
2/22/2017			<0.0005
2/23/2017		0.0002 (J)	
5/3/2017	0.0002 (J)		
5/8/2017		0.0002 (J)	<0.0005
6/30/2017		0.0002 (J)	<0.0005
7/10/2017	0.0002 (J)		
3/29/2018		<0.0005	<0.0005
3/30/2018	<0.0005		
2/27/2019	0.00018 (J)	0.00022 (J)	<0.0005
4/1/2019		0.00022 (J)	<0.0005
4/2/2019	0.00015 (J)		
9/25/2019	0.00011 (J)		
9/26/2019		0.0002 (J)	<0.0005
2/13/2020	0.00015 (J)	0.00021 (J)	<0.0005
3/19/2020	0.00012 (J)		
3/20/2020		0.00023 (J)	<0.0005
9/24/2020	8.5E-05 (J)	0.00019 (J)	<0.0005
2/10/2021	0.00013 (J)	0.00014 (J)	6.6E-05 (J)
3/2/2021	0.00016 (J)		
3/3/2021		0.00013 (J)	<0.0005
8/19/2021	8.2E-05 (J)		
8/20/2021		8.6E-05 (J)	0.00011 (J)
2/8/2022			<0.0005
2/10/2022	9.3E-05 (J)	0.00013 (J)	
8/31/2022	7.4E-05 (J)		
9/1/2022		0.00012 (J)	<0.0005
Mean	0.0001767	0.0002183	0.0004588
Std. Dev.	0.0001192	0.0001298	0.000127
Upper Lim.	0.0002048	0.0002555	0.0005
Lower Lim.	0.0001127	0.0001418	0.00011

Constituent: Cadmium (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29I
6/9/2016	0.00055 (J)	<0.0005	<0.0005
8/2/2016	0.0001 (J)	<0.0005	0.0001 (J)
9/21/2016	0.0001 (J)	<0.0005	0.0002 (J)
11/7/2016		<0.0005	0.0002 (J)
11/8/2016	9E-05 (J)		
1/18/2017	9E-05 (J)	<0.0005	
1/19/2017			0.0001 (J)
2/21/2017		<0.0005	
2/22/2017	0.0001 (J)		0.0001 (J)
5/5/2017	9E-05 (J)	<0.0005	
5/8/2017			0.0002 (J)
7/5/2017	0.0002 (J)		0.0002 (J)
7/7/2017		<0.0005	
3/29/2018			<0.0005
3/30/2018	<0.0005	<0.0005	
2/27/2019	0.00014 (J)	<0.0005	0.00026 (J)
4/1/2019	0.00043 (J)		0.00022 (J)
4/2/2019		<0.0005	
9/25/2019			0.00024 (J)
9/26/2019	<0.0005	<0.0005	
2/13/2020	0.00013 (J)	<0.0005	0.00018 (J)
3/19/2020	0.00016 (J)	<0.0005	
3/20/2020			0.00022 (J)
9/24/2020	0.00027 (J)	<0.0005	0.00033 (J)
2/11/2021	0.00052 (J)		
2/12/2021		0.00048 (J)	<0.0005
3/3/2021	0.00014 (J)	<0.0005	0.00029 (J)
8/20/2021	0.00027 (J)	<0.0005	0.00027 (J)
2/8/2022	0.00033 (J)	<0.0005	0.00019 (J)
9/1/2022	0.00017 (J)	<0.0005	0.0002 (J)
Mean	0.000244	0.000499	0.00025
Std. Dev.	0.0001665	4.472E-06	0.0001228
Upper Lim.	0.0002875	0.0005	0.0003061
Lower Lim.	0.0001345	0.00048	0.0001768

Constituent: Chromium (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	<0.005	<0.005	<0.005			
6/9/2016					<0.005	<0.005	<0.005
8/1/2016	0.0008 (J)	0.0026 (J)	<0.005	<0.005			
8/2/2016					0.0005 (J)	0.0005 (J)	0.0005 (J)
9/20/2016	<0.005	0.001 (J)	<0.005	<0.005			
9/21/2016		(5)			<0.005	<0.005	<0.005
11/7/2016	<0.005	0.0013 (J)	<0.005	<0.005	-0.000	<0.005	<0.005
	~0.003	0.0013 (3)	~ 0.003	~ 0.003	-0.005	~ 0.003	~ 0.003
11/8/2016					<0.005		
1/18/2017	<0.005	0.002 (J)	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	0.0019 (J)				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		0.0037 (J)					
5/5/2017					<0.005	<0.005	
5/8/2017	0.0006 (J)		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		<0.005
7/7/2017						<0.005	
7/10/2017	<0.005 (*)	<0.005 (*)				10.003	
	10.005 ()	10.000 ()	<0.00E	<0.005			<0.00E
3/29/2018	0.005	.0.005	<0.005	<0.005	0.005	.0.005	<0.005
3/30/2018	<0.005	<0.005			<0.005	<0.005	
2/27/2019	0.0049 (J)	0.0055 (J)	<0.005	0.015	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	0.003 (J)				<0.005	
9/25/2019	0.00048 (J)	0.0012 (J)					<0.005
9/26/2019			<0.005	<0.005	0.00044 (J)	<0.005	
2/13/2020	0.00044 (J)	0.0012 (J)	<0.005	<0.005	0.00047 (J)	<0.005	<0.005
3/19/2020		0.0018 (J)			<0.005	0.00049 (J)	
3/20/2020	0.0009 (J)		<0.005	0.0005 (J)			<0.005
9/24/2020	0.00067 (J)	0.00068 (J)	<0.005	0.00057 (J)	<0.005	0.0006 (J)	<0.005
2/10/2021	0.00065 (J)	0.00091 (J)	<0.005	0.0027 (J)			
2/11/2021	()	()		. ,	<0.005		
2/12/2021					0.000	<0.005	<0.005
3/2/2021		0.001 (1)				~ 0.003	~ 0.003
	-0.005	0.001 (J)	-0.005	0.00050 (1)	-0.005	-0.005	-0.005
3/3/2021	<0.005		<0.005	0.00058 (J)	<0.005	<0.005	<0.005
8/19/2021		0.0012 (J)					
8/20/2021	<0.005		0.012	0.0041 (J)	<0.005	<0.005	<0.005
2/8/2022				<0.005	<0.005	<0.005	<0.005
2/10/2022	<0.005	<0.005	<0.005				
8/31/2022	<0.005	<0.005					
9/1/2022			<0.005	<0.005	<0.005	<0.005	<0.005
Mean	0.003472	0.002699	0.00535	0.004672	0.00432	0.004329	0.004775
Std. Dev.	0.002128	0.001764	0.001565	0.002932	0.00166	0.001638	0.001006
Upper Lim.	0.005	0.002218	0.012	0.005	0.005	0.005	0.005
Lower Lim.	0.00067	0.001077	0.005	0.0041	0.0005	0.0006	0.0005

Constituent: Cobalt (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I	
6/8/2016	0.0032	0.0016 (J)	0.0024 (J)				
6/9/2016				0.00042 (J)	0.00085 (J)	0.00052 (J)	
8/1/2016	0.003 (J)	0.0014 (J)	0.0026 (J)				
8/2/2016				<0.005	0.0008 (J)	0.0006 (J)	
9/20/2016	0.003 (J)	0.002 (J)	0.0026 (J)				
9/21/2016				<0.005	0.0008 (J)	0.0007 (J)	
11/7/2016	0.0025 (J)	0.0016 (J)	0.0025 (J)		0.001 (J)	<0.005	
11/8/2016				<0.005			
1/18/2017	0.0022 (J)	0.0017 (J)		<0.005	0.001 (J)		
1/19/2017			0.0024 (J)			<0.005	
2/21/2017	0.0022 (J)				0.0011 (J)		
2/22/2017			0.0023 (J)	<0.005		<0.005	
2/23/2017		0.002 (J)					
5/3/2017	0.002 (J)						
5/5/2017				<0.005	0.0012 (J)		
5/8/2017		0.0029 (J)	0.0023 (J)			<0.005	
6/30/2017		0.0044 (J)	0.0022 (J)				
7/5/2017				<0.005		0.0003 (J)	
7/7/2017					0.0012 (J)		
7/10/2017	0.002 (J)						
3/29/2018		0.0495 (D)	<0.005			<0.005	
3/30/2018	<0.005	. ,		<0.005	<0.005		
6/11/2018						<0.005	
6/12/2018			0.0025 (J)	<0.005	0.0011 (J)		
6/13/2018	0.0017 (J)	0.092	. ,		,		
10/2/2018	0.002 (J)	0.078	0.0023 (J)			<0.005	
10/3/2018	. ,		. ,	<0.005	0.0013 (J)		
2/27/2019	0.0017 (J)	0.035	0.0024 (J)	<0.005	0.00093 (J)	<0.005	
4/1/2019	, ,	0.025	0.0023 (J)	<0.005	,	<0.005	
4/2/2019	0.0022 (J)		.,		0.0011 (J)		
9/25/2019	0.0033 (J)				,	<0.005	
9/26/2019		0.014	0.0021 (J)	<0.005	0.00098 (J)		
2/13/2020	0.0019 (J)	0.012	0.0026 (J)	<0.005	0.00092 (J)	<0.005	
3/19/2020	0.0021 (J)		.,	<0.005	0.00093 (J)		
3/20/2020	, ,	0.014	0.0022 (J)		,	<0.005	
9/24/2020	0.0011 (J)	0.0076	0.0021 (J)	<0.005	0.00085 (J)	<0.005	
2/10/2021	0.0017 (J)	0.0048 (J)	0.0025 (J)				
2/11/2021				<0.005			
2/12/2021					<0.005	0.00094 (J)	
3/2/2021	0.0021 (J)					. ,	
3/3/2021	,	0.0042 (J)	0.0017 (J)	<0.005	0.001 (J)	<0.005	
8/19/2021	0.0017 (J)	. ,	. ,		. ,		
8/20/2021	,	0.0034 (J)	0.0027 (J)	<0.005	0.00097 (J)	<0.005	
2/8/2022		(-,	0.0017 (J)	<0.005	0.00091 (J)	<0.005	
2/10/2022	0.0026 (J)	0.0051	(5)				
8/31/2022	0.0026 (J)						
9/1/2022	(0)	0.0096	0.0015 (J)	<0.005	0.00071 (J)	<0.005	
Mean	0.002355	0.0169	0.002405	0.004792	0.00071 (3)	0.004003	
Std. Dev.	0.0008064	0.02524	0.0006579	0.0009765	0.001191	0.001885	
Upper Lim.	0.002713	0.02324	0.000575	0.005	0.001131	0.005	
Lower Lim.	0.002713	0.003531	0.0023	0.00042	0.0012	0.00094	
LOWER LINE.	0.001010	0.000001	0.0022	0.00072	0.00001	0.00004	

 $\label{lem:constituent:Combined Radium 226 + 228 (pCi/L)} Analysis \ Run \ 10/12/2022 \ 1:45 \ PM \quad View: \ Appendix \ IV$

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	6.68 (o)	0.677	1.81	0.257 (U)			
6/9/2016					0.194 (U)	0.715	0.523
8/1/2016	0.606 (U)	0.457 (U)	3.79	0.453 (U)			
8/2/2016					0.331 (U)	0.526 (U)	1.25
9/20/2016	0.565 (U)	0.555 (U)	3.12	1.27			
9/21/2016					0.335 (U)	0.176 (U)	1.21 (U)
11/7/2016	0.773 (U)	0.647 (U)	2.66	0.877 (U)		0.609 (U)	1.16
11/8/2016					0.245 (U)		
1/18/2017	0.263 (U)	0.6 (U)	3.44		0.261 (U)	0.0752 (U)	
1/19/2017				0.764 (U)			0.933 (U)
2/21/2017	1.06 (U)	1.11 (U)				0.404 (U)	
2/22/2017				1.26 (U)	0.516 (U)		1.45 (U)
2/23/2017			4.73				
5/3/2017		0.654 (U)					
5/5/2017					0.713 (U)	0.868 (U)	
5/8/2017	0.291 (U)		3.87	0.789 (U)			0.21 (U)
6/30/2017			2.85	0.592 (U)			
7/5/2017					0.292 (U)		0.62 (U)
7/7/2017						1.29	
7/10/2017	0.912	0.649 (U)					
3/29/2018			1.41	0.916 (U)			1.37
3/30/2018	0.23 (U)	0.501 (U)			0.948 (U)	0.195 (U)	
6/11/2018							1.27 (U)
6/12/2018				0.666 (U)	0.869 (U)	1.02 (U)	
6/13/2018	0.427 (U)	1.09 (U)	3.69				
10/2/2018	1.41 (U)	0.747 (U)	4.5	0.774 (U)			0.442 (U)
10/3/2018					0.864 (U)	0.713 (U)	
2/27/2019	0.614 (U)	1.27	4.69	1.19	0.947 (U)	0.543 (U)	0.902 (U)
4/1/2019			5	0.777 (U)	0.162 (U)		0.584 (U)
4/2/2019	0.84 (U)	0.708 (U)				0.521 (U)	
9/25/2019	1.01 (U)	1.18 (U)					1.03 (U)
9/26/2019			3.37	1.01 (U)	1.06 (U)	1.16	
2/13/2020	1.86	0.178 (U)	4.48	0.961 (U)	1.12 (U)	1.04	0.806 (U)
3/19/2020		0.796 (U)			0.913 (U)	1.01 (U)	
3/20/2020	2.03		4.13	1.5			1.42
9/24/2020	<1.88	<1.88	3.42	1.49	<1.88	<1.88	<1.88
2/10/2021	0.513 (U)	0.41 (U)	2.47	0.663 (U)			
2/11/2021					1.07		
2/12/2021						0.419 (U)	0.826
3/2/2021		0.394 (U)					
3/3/2021	0.419 (U)		1.39	0.327 (U)	0.261 (U)	1.04	0.955
8/19/2021		0.531 (U)					
8/20/2021	0.596 (U)		1.36	0.542 (U)	0.656 (U)	1.34	0.314 (U)
2/8/2022				0.781 (U)	1.07 (U)	0.964	0.104 (U)
2/10/2022	0.149 (U)	0.431 (U)	1.23				
8/31/2022	0.179 (U)	0.602 (U)					
9/1/2022			2.93	0.147 (U)	0.602 (U)	0.127 (U)	0.445 (U)
Mean	0.747	0.6876	3.197	0.8185	0.6531	0.7134	0.8529
Std. Dev.	0.5154	0.2794	1.193	0.3682	0.3403	0.3818	0.4021
Upper Lim.	1.031	0.8376	3.837	1.016	0.8358	0.9184	1.069
Lower Lim.	0.4627	0.5376	2.557	0.6208	0.4705	0.5085	0.6371

 $\label{lem:constituent:Fluoride (mg/L)} \begin{array}{ll} \text{Constituent: Fluoride (mg/L)} & \text{Analysis Run 10/12/2022 1:45 PM} & \text{View: Appendix IV} \\ & \text{Plant Yates} & \text{Client: Southern Company} & \text{Data: Yates Ash Pond 2} \\ \end{array}$

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.094 (J)	<0.1	0.086 (J)	0.12 (J)			
6/9/2016					0.098 (J)	0.16 (J)	0.085 (J)
8/1/2016	0.08 (J)	0.24 (J)	0.14 (J)	0.22 (J)			
8/2/2016					0.38	0.5	0.09 (J)
9/20/2016	0.05 (J)	0.03 (J)	<0.1	0.32			
9/21/2016					0.08 (J)	0.25 (J)	0.09 (J)
11/7/2016	<0.1 (*)	0.44	<0.1 (*)	<0.1 (*)		0.27 (J)	<0.1 (*)
11/8/2016					0.24 (J)		
1/18/2017	0.11 (J)	<0.1 (*)	<0.1 (*)		0.12 (J)	0.34	
1/19/2017				0.25 (J)			<0.1 (*)
2/21/2017	<0.1 (*)	<0.1 (*)				0.27 (J)	
2/22/2017				0.21 (J)	<0.1 (*)		<0.1 (*)
2/23/2017			<0.1 (*)				
5/3/2017		0.16 (J)					
5/5/2017					0.08 (J)	0.2 (J)	
5/8/2017	0.08 (J)		0.07 (J)	0.19 (J)			0.06 (J)
6/30/2017			<0.1 (*)	0.2 (J)			
7/5/2017					0.11 (J)		0.08 (J)
7/7/2017						0.18 (J)	
7/10/2017	<0.1 (*)	<0.1 (*)					
10/5/2017					<0.1 (*)		<0.1 (*)
10/6/2017				<0.1 (*)			
10/9/2017			<0.1 (*)			<0.1 (*)	
10/10/2017	<0.1	<0.1					
3/29/2018			<0.1	0.49			<0.1
3/30/2018	<0.1	0.35			<0.1	<0.1	
6/11/2018							<0.1
6/12/2018				0.037 (J)	<0.1	0.13 (J)	
6/13/2018	0.088 (J)	0.044 (J)	<0.1				
10/2/2018	<0.1	<0.1	<0.1	<0.1			<0.1
10/3/2018					<0.1	0.31	
2/27/2019	<0.1	<0.1	<0.1	0.14 (J)	0.14 (J)	0.22 (J)	0.15 (J)
4/1/2019			0.034 (J)	0.088 (J)	0.078 (J)		0.059 (J)
4/2/2019	0.071 (J)	<0.1				0.14 (J)	
9/25/2019	0.064 (J)	<0.1					0.054 (J)
9/26/2019			0.14 (J)	0.22 (J)	0.29 (J)	0.28 (J)	
2/13/2020	<0.1	<0.1	<0.1	0.11 (J)	0.14 (J)	0.18 (J)	0.053 (J)
3/19/2020		<0.1			0.07 (J)	0.16 (J)	
3/20/2020	0.06 (J)		<0.1	0.097 (J)			0.057 (J)
9/24/2020	0.053 (J)	<0.1	0.059 (J)	0.092 (J)	0.073 (J)	0.16	0.06 (J)
2/10/2021	0.05 (J)	<0.1	0.055 (J)	0.084 (J)			
2/11/2021					0.066 (J)		
2/12/2021						0.069 (J)	0.17
3/2/2021		<0.1					
3/3/2021	0.05 (J)		0.058 (J)	<0.1	0.072 (J)	0.13	0.056 (J)
8/19/2021		<0.1					
8/20/2021	<0.1		0.091 (J)	0.11	0.11	0.2	0.069 (J)
2/8/2022				0.087 (J)	0.063 (J)	0.14	0.053 (J)
2/10/2022	<0.1	<0.1	0.059 (J)				
8/31/2022	0.082 (J)	0.076 (J)					
9/1/2022			0.1	0.12	0.11	0.16	0.091 (J)
Mean	0.084	0.1278	0.09096	0.1559	0.1226	0.2021	0.08596

 $\label{lem:constituent:Fluoride (mg/L)} \begin{array}{ll} \text{Constituent: Fluoride (mg/L)} & \text{Analysis Run 10/12/2022 1:45 PM} & \text{View: Appendix IV} \\ & \text{Plant Yates} & \text{Client: Southern Company} & \text{Data: Yates Ash Pond 2} \\ \end{array}$

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
Std. Dev	0.02018	0.09345	0.02523	0.09941	0.0776	0.09584	0.0301
Upper Li	m. 0.1	0.16	0.1	0.1863	0.12	0.2523	0.08971
Lower Li	m. 0.064	0.076	0.07	0.09639	0.078	0.152	0.06021

Constituent: Lead (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27S	YGWC-28S	YGWC-29I
6/8/2016	<0.001	<0.001	<0.001 (*)		
6/9/2016				<0.001	<0.001
8/1/2016	<0.001	<0.001	<0.001		
8/2/2016				<0.001	<0.001
9/20/2016	<0.001	<0.001	0.0002 (J)		
9/21/2016				<0.001	<0.001
11/7/2016	<0.001	<0.001	<0.001	<0.001	<0.001
1/18/2017	<0.001	<0.001		<0.001	
1/19/2017			<0.001		<0.001
2/21/2017	<0.001	<0.001		<0.001	
2/22/2017			<0.001		<0.001
5/3/2017		<0.001 (*)			
5/5/2017				<0.001 (*)	
5/8/2017	<0.001		<0.001		<0.001
6/30/2017			<0.001		
7/5/2017					<0.001
7/7/2017				7E-05 (J)	
7/10/2017	<0.001	8E-05 (J)			
3/29/2018			<0.001		<0.001
3/30/2018	<0.001	<0.001		<0.001	
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2020	<0.001	<0.001	6.2E-05 (J)	5.4E-05 (J)	<0.001
3/19/2020		0.0001 (J)		7.5E-05 (J)	
3/20/2020	5.9E-05 (J)		8.5E-05 (J)		<0.001
9/24/2020	<0.001	6.4E-05 (J)	0.00037 (J)	6.3E-05 (J)	9.5E-05 (J)
2/10/2021	5.1E-05 (J)	5E-05 (J)	0.00072 (J)		
2/12/2021				5.2E-05 (J)	6.6E-05 (J)
3/2/2021		5.6E-05 (J)			
3/3/2021	<0.001		<0.001	<0.001	0.00016 (J)
8/19/2021		<0.001			
8/20/2021	<0.001		0.00096 (J)	<0.001	<0.001
2/8/2022			<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001			
8/31/2022	<0.001	<0.001			
9/1/2022			<0.001	<0.001	<0.001
Mean	0.000895	0.0007417	0.0007998	0.0007397	0.0008512
Std. Dev.	0.0003056	0.0004287	0.0003525	0.000432	0.0003428
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	5.9E-05	8E-05	0.00037	7E-05	0.00016

Constituent: Lithium (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.007	0.0067	<0.03			
6/9/2016				0.0073	<0.03	0.0075
8/1/2016	0.0068 (J)	0.008 (J)	<0.03			
8/2/2016				0.0073 (J)	<0.03	0.0078 (J)
9/20/2016	0.0062 (J)	0.0111 (J)	<0.03			
9/21/2016				0.0067 (J)	<0.03	0.0074 (J)
11/7/2016	0.0057 (J)	0.0097 (J)	<0.03		<0.03	0.0057 (J)
11/8/2016				0.0072 (J)		
1/18/2017	0.0066 (J)	0.01 (J)		0.0067 (J)	<0.03	
1/19/2017			<0.03			0.0055 (J)
2/21/2017	0.0067 (J)				<0.03	
2/22/2017			<0.03	0.0064 (J)		0.0063 (J)
2/23/2017		0.0099 (J)				
5/5/2017				0.007 (J)	<0.03	
5/8/2017	0.007 (J)	0.0086 (J)	<0.03			0.0066 (J)
6/30/2017		0.0108 (J)	<0.03			
7/5/2017				0.0072 (J)		0.0058 (J)
7/7/2017					<0.03	
7/10/2017	0.0064 (J)					
3/29/2018		0.011 (J)	<0.03			0.0049 (J)
3/30/2018	0.0068 (J)			0.007 (J)	<0.03	
6/11/2018						0.0064 (J)
6/12/2018			<0.03	0.0073 (J)	<0.03	
6/13/2018	0.0071 (J)	0.014 (J)				
10/2/2018	0.0064 (J)	0.012 (J)	<0.03			0.006 (J)
10/3/2018				0.0069 (J)	<0.03	
2/27/2019	0.0069 (J)	0.0096 (J)	<0.03	0.0063 (J)	<0.03	0.0053 (J)
4/1/2019		0.0082 (J)	<0.03	0.0065 (J)		0.0052 (J)
4/2/2019	0.0064 (J)				<0.03	
9/25/2019	0.0073 (J)					0.0057 (J)
9/26/2019		0.0075 (J)	<0.03	0.0064 (J)	<0.03	
2/13/2020	0.0073 (J)	0.0079 (J)	<0.03	0.0069 (J)	<0.03	0.0057 (J)
3/19/2020				0.007 (J)	<0.03	
3/20/2020	0.0072 (J)	0.0091 (J)	<0.03			0.0051 (J)
9/24/2020	0.0074 (J)	0.0075 (J)	<0.03	0.0065 (J)	<0.03	0.005 (J)
2/10/2021	0.0067 (J)	0.0067 (J)	0.00081 (J)			
2/11/2021				0.007 (J)		
2/12/2021					0.0053 (J)	<0.03
3/3/2021	0.0077 (J)	0.0066 (J)	<0.03	0.0063 (J)	<0.03	0.0054 (J)
8/20/2021	0.0079 (J)	0.0066 (J)	0.0013 (J)	0.0072 (J)	<0.03	0.0056 (J)
2/8/2022			<0.03	0.0076 (J)	<0.03	0.0064 (J)
2/10/2022	0.0086 (J)	0.0072 (J)				
8/31/2022	0.0074 (J)					
9/1/2022		0.0069 (J)	<0.03	0.0066 (J)	<0.03	0.0051 (J)
Mean	0.006977	0.008891	0.02737	0.006877	0.02888	0.007018
Std. Dev.	0.0006264	0.002016	0.008517	0.0003766	0.005266	0.005198
Upper Lim.	0.007313	0.009973	0.03	0.007079	0.03	0.0066
Lower Lim.	0.006641	0.007809	0.0013	0.006675	0.0053	0.0053

Constituent: Mercury (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.0002	<0.0002	<0.0002	<0.0002			
6/9/2016					<0.0002 (*)	<0.0002 (*)	<0.0002 (*)
8/1/2016	<0.0002	<0.0002	<0.0002	<0.0002			
8/2/2016					<0.0002	<0.0002	<0.0002
9/20/2016	<0.0002	<0.0002	<0.0002	<0.0002			
9/21/2016					<0.0002	<0.0002	<0.0002
11/7/2016	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
11/8/2016					<0.0002		
1/18/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
1/19/2017				<0.0002			<0.0002
2/21/2017	<0.0002	<0.0002				<0.0002	
2/22/2017				<0.0002	<0.0002		<0.0002
2/23/2017			<0.0002				
5/3/2017		<0.0002					
5/5/2017					<0.0002	<0.0002	
5/8/2017	<0.0002		<0.0002	<0.0002			<0.0002
6/30/2017			<0.0002 (*)	<0.0002 (*)			
7/5/2017					<0.0002		<0.0002
7/7/2017						<0.0002	
7/10/2017	<0.0002	<0.0002					
3/29/2018			<0.0002	<0.0002			<0.0002
3/30/2018	<0.0002	<0.0002			<0.0002	<0.0002	
2/27/2019	5.1E-05 (J)	4.9E-05 (J)	5.4E-05 (J)	4.9E-05 (J)	4.8E-05 (J)	5.2E-05 (J)	4.7E-05 (J)
4/1/2019			4.5E-05 (J)	4.1E-05 (J)	<0.0002		3.9E-05 (J)
4/2/2019	5.1E-05 (J)	6.6E-05 (J)				<0.0002	
9/25/2019	<0.0002	<0.0002					<0.0002
9/26/2019			<0.0002	<0.0002	<0.0002	<0.0002	
2/13/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/10/2021	<0.0002	<0.0002	<0.0002	<0.0002			
2/11/2021					<0.0002		
2/12/2021						<0.0002	<0.0002
2/8/2022				<0.0002	<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002	<0.0002				
8/31/2022	<0.0002	<0.0002					
9/1/2022			<0.0002	0.00019 (J)	<0.0002	<0.0002	<0.0002
Mean	0.0001814	0.0001822	0.0001812	0.00018	0.0001905	0.0001907	0.0001804
Std. Dev.	5.089E-05	4.877E-05	5.143E-05	5.278E-05	3.8E-05	3.7E-05	5.365E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	5.1E-05	6.6E-05	5.4E-05	0.00019	4.8E-05	5.2E-05	4.7E-05

Constituent: Molybdenum (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV Plant Yates Client: Southern Company Data: Yates Ash Pond 2

		riant	rates offerit. Of
YGWC-27I	YGWC-28I	YGWC-28S	YGWC-29I
0.0011 (J)			
	0.0011 (J)	<0.01	<0.01
0.0018 (J)			
	0.0014 (J)	0.0006 (J)	<0.01
<0.01			
	<0.01	<0.01	<0.01
<0.01		<0.01	<0.01
	<0.01		
<0.01	<0.01	<0.01	
			<0.01
		<0.01	
	<0.01		<0.01
<0.01			
	0.0014 (J)	0.0007 (J)	
0.0011 (J)			<0.01
<0.01			
	0.0014 (J)		<0.01
		<0.01	
<0.01			<0.01
	<0.01	<0.01	
			<0.01
	<0.01	<0.01	
<0.01			
<0.01			<0.01
	<0.01	<0.01	
<0.01	<0.01	<0.01	<0.01
<0.01	<0.01		<0.01
		<0.01	
			<0.01
0.0014 (J)			<0.01
	0.0014 (J)	<0.01	
			<0.01
* /	0.0012 (J)	0.00075 (J)	<0.01
0.0016 (J)	0.0040 (1)		
	0.0012 (J)		0.00000 (1)
0.0047 (1)	0.0044 (1)		0.00083 (J)
			<0.01
0.0042 (J)			<0.01
0.0010 (1)	0.0011 (J)	0.00082 (J)	<0.01
* /	0.001 (1)	-0.01	-0.01
			<0.01
			0.009583
			0.001955
			0.01
0.0015	0.0012	0.00003	0.00083
	0.0011 (J) 0.0018 (J) <0.01 <0.01 <0.01 <0.01 0.0011 (J) <0.01 <0.01 <0.01	0.0011 (J) 0.0018 (J) 0.0014 (J) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 0.0014 (J) 0.0014 (J) 0.0011 (J) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 0.0014 (J) 0.0014 (J) 0.0015 (J) 0.0015 (J) 0.0012 (J) 0.0016 (J) 0.0016 (J) 0.0016 (J) 0.0016 (J) 0.0016 (J) 0.0017 (J) 0.0017 (J) 0.0018 (J) 0.0018 (J) 0.0019 (J)	YGWC-27I YGWC-28I YGWC-28S 0.0011 (J) -0.01 -0.01 0.0018 (J) -0.001 -0.01 <0.01

Constituent: Selenium (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-28I	YGWC-28S
6/8/2016	0.0016	0.0003 (J)		
6/9/2016			<0.005	<0.005
8/1/2016	0.0023 (J)	0.0014 (J)		
8/2/2016			<0.005	<0.005
9/20/2016	0.0022 (J)	<0.005		
9/21/2016			<0.005	0.001 (J)
11/7/2016	0.0017 (J)	<0.005		<0.005
11/8/2016			<0.005	
1/18/2017	0.002 (J)	0.0012 (J)	<0.005	<0.005
2/21/2017	0.0018 (J)	0.0014 (J)		<0.005
2/22/2017			0.0012 (J)	
5/3/2017		<0.005		
5/5/2017			<0.005	<0.005
5/8/2017	<0.005			
7/5/2017			<0.005	
7/7/2017				<0.005
7/10/2017	0.002 (J)	<0.005		
3/30/2018	<0.005	<0.005	<0.005	<0.005
2/27/2019	0.002 (J)	<0.005	<0.005	<0.005
4/1/2019			<0.005	
4/2/2019	0.0017 (J)	<0.005		<0.005
9/25/2019	0.0019 (J)	<0.005		
9/26/2019			<0.005	<0.005
2/13/2020	0.0019 (J)	<0.005	<0.005	<0.005
3/19/2020		<0.005	<0.005	<0.005
3/20/2020	0.0019 (J)			
9/24/2020	0.0031 (J)	<0.005	<0.005	<0.005
2/10/2021	0.0026 (J)	<0.005		
2/11/2021			<0.005	
2/12/2021				<0.005
3/2/2021		<0.005		
3/3/2021	0.0034 (J)		<0.005	<0.005
8/19/2021		<0.005		
8/20/2021	0.0026 (J)		<0.005	<0.005
2/8/2022			<0.005	<0.005
2/10/2022	0.0042 (J)	<0.005		
8/31/2022	0.0036 (J)	<0.005		
9/1/2022			<0.005	<0.005
Mean	0.002625	0.004215	0.00481	0.0048
Std. Dev.	0.001076	0.001624	0.0008497	0.0008944
Upper Lim.	0.003014	0.005	0.005	0.005
Lower Lim.	0.001996	0.0014	0.0012	0.001

Constituent: Thallium (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-27S
6/8/2016	<0.001	0.00012 (J)
8/1/2016	<0.001	0.0001 (J)
9/20/2016	<0.001	<0.001
11/7/2016	<0.001	<0.001
1/18/2017	<0.001	
1/19/2017		<0.001
2/21/2017	<0.001	
2/22/2017		<0.001
5/3/2017	<0.001	
5/8/2017		0.0001 (J)
6/30/2017		0.0001 (J)
7/10/2017	<0.001	
3/29/2018		<0.001
3/30/2018	<0.001	
2/27/2019	<0.001	<0.001
2/13/2020	5.7E-05 (J)	0.0001 (J)
3/19/2020	5.5E-05 (J)	
3/20/2020		0.00011 (J)
9/24/2020	<0.001	<0.001
2/10/2021	<0.001	<0.001
2/8/2022		<0.001
2/10/2022	<0.001	
8/31/2022	<0.001	
9/1/2022		<0.001
Mean	0.000882	0.0006644
Std. Dev.	0.0003224	0.0004475
Upper Lim.	0.001	0.001
Lower Lim.	5.7E-05	0.0001

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