



# 2021 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

Plant Yates – AP-3, A, B, B', and R6 CCR Landfill Newnan, Georgia

August 31, 2021

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Plant Yates – AP-3, A, B, B', and R6 CCR Landfill, Newnan, Georgia

#### Prepared for:

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Date: August 31, 2021

## **SUMMARY**

This summary of the 2021 Semiannual Monitoring and Corrective Action Report provides the status of the groundwater monitoring and corrective action program January through June 2021 at Georgia Power Company's (Georgia Power's) Plant Yates Ash Ponds (AP) AP-3, A, B, B', and the R6 Landfill (the Site). This summary was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6<sup>1</sup> of the United States Environmental Protection Agency (USEPA) Coal Combustion Residual (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Yates is located at 708 Dyer Road, approximately 8 miles northwest of Newnan and 13 miles southeast of Carrollton in Coweta County, Georgia. Plant Yates originally operated seven coal-fired steam-generating units. Five of the units were retired in 2015 and two units were converted from coal to natural gas. CCR material resulting from power generation has historically been transferred and stored at the Site. The Site is located on the southwestern portion of the Plant Yates property.

Groundwater at the Site is monitored using a monitoring system comprising 19 upgradient and 8 downgradient wells. Routine sampling and reporting began in 2017 after the completion of eight background sampling events. Based on groundwater conditions at the Site, an assessment



Plant Yates and the Site

monitoring program was established on January 14, 2018 at AP-3, B, and B'; in September 2019 for AP-A; and on November 13, 2019 for the R6 Landfill. An assessment of corrective measures (ACM) was initiated on February 12, 2019 for the AP-3, B, and B' units. AP-A was added to the ACM on June 12, 2019, and the R6 CCR Landfill was incorporated on January 31, 2020. During the 2021 first semiannual reporting period, the Site remained in assessment monitoring.

During the first half of the 2021 reporting period, Arcadis conducted two groundwater sampling events: an initial assessment event in February and a semiannual event in March. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR Rule, groundwater results for March 2021 data were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III<sup>2</sup> and Appendix IV<sup>3</sup> parameters<sup>4</sup> in the wells identified in the following table.

<sup>&</sup>lt;sup>1</sup> 80 Federal Register (FR) 21468, Apr. 17, 2015, as amended at 81 FR 51807, Aug. 5, 2016; 83 FR 36452, July 30, 2018; and 85 FR 53561, Aug. 28, 2020

<sup>&</sup>lt;sup>2</sup> Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)

<sup>&</sup>lt;sup>3</sup> Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228

<sup>&</sup>lt;sup>4</sup> A state statistically significant level SSL-related constituent is determined by comparing the confidence intervals developed to either the constituent's MCL, if available, or the calculated background interwell prediction limit. A federal 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	March 2021	
Boron	YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43	
Calcium	YGWC-38, YGWC-42	
Chloride	YGWC-24SA	
рН	YGWC-41	
Sulfate	YGWC-38, YGWC-42, YGWC-43	
Total Dissolved Solids	YGWC-38, YGWC-41, YGWC-42, YGWC-43	
Appendix IV Parameter <sup>4</sup>	March 2021	
Beryllium	Federal and State: YGWC-38	
Selenium	Federal and State: YGWC-38, PZ-37	

The beryllium SSL at well YGWC-38 is horizontally delineated by downgradient wells PZ-37 and YGWC-23S. Beryllium SSL at well YGWC-38 is vertically delineated by well YAMW-5. The selenium SSL at well YGWC-38 is horizontally delineated by downgradient wells YGWC-23S and YGWC-36A and vertically by the newly installed PZ-37D. Based on review of the Appendix III and Appendix IV statistical results for the groundwater monitoring and corrective action program from January through June 2021, the Site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting for the Site. Reports will be posted to the website and provided to the Georgia Environmental Protection Division (GAEPD) semiannually.

<sup>&</sup>lt;sup>4</sup> A state statistically significant level SSL-related constituent is determined by comparing the confidence intervals developed to either the constituent's MCL, if available, or the calculated background interwell prediction limit. A federal 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.

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# **ACRONYMS AND ABBREVIATIONS**

ACC	Atlantic Coast Consulting, Inc.
ACM	Assessment of Corrective Measures
AP	Plant Yates Ash Pond
Arcadis	Arcadis U.S., Inc.
CCR	Coal Combustion Residuals
CCR units	the combined monitoring systems of AP-3, A, B, and B' and the R6 Landfill
CFR	Code of Federal Regulations
GAEPD	Georgia Environmental Protection Division
Georgia Power	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
USEPA	United States Environmental Protection Agency

# **PROFESSIONAL CERTIFICATION**

This 2021 Semiannual Groundwater Monitoring and Corrective Action Report for the Georgia Power Company Plant Yates AP-3, A, B, B', and R6 CCR Landfill has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule (40 Code of Federal Regulations 257 Subpart D) and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Arcadis U.S., Inc.

Arcadis U.S., Inc.



J. Geoffrey Gay, P.E. Technical Expert (Eng) Georgia Registration No. PE 27801 8-31-21

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# **1** INTRODUCTION

This 2021 Semiannual Groundwater Monitoring and Corrective Action Report describes groundwater monitoring activities conducted at the Georgia Power Company (Georgia Power) Plant Yates Ash Ponds (AP) AP-3, A, B, B', and R6 Landfill (the site) in February and March 2021. 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 Rule is cited within this report.

This report presents the results of February 2021 annual monitoring for Appendix IV parameters of 40 CFR 257, a semiannual monitoring event conducted in March 2021, and activities completed through June 2021 in accordance with Rule 391-3-4-.10(6)(c).

## 1.1 Background

Plant Yates is located at 708 Dyer Road on the east bank of the Chattahoochee River in Coweta County, Georgia, near the Coweta and Carroll County line. The site is approximately 8 miles northwest of the city of Newnan and 13 miles southeast of the city of Carrollton. Plant Yates occupies approximately 2,400 acres. **Figure 1** depicts the site location relative to the surrounding area. Areas where CCR Removal Reports have been submitted to GA EPD are shown in **Figure 2**. Monitoring well and piezometer locations are shown on **Figure 3**.

Two permit application packages were submitted to GAEPD in November 2018: one for AP-3, A, B, and B', and another for the R6 CCR Landfill. Due to the configuration of the units and overall groundwater flow direction, both permits propose combining the monitoring systems of AP-3, A, B, and B' and the R6 Landfill into a single multi-unit monitoring system that meets federal and state monitoring requirements. Although the permit application is still in review, Georgia Power proactively began monitoring the R6 Landfill as part of a combined multi-unit monitoring program. Groundwater monitoring and reporting for the CCR units are performed in accordance with the monitoring requirements presented in §§ 257.90 through 257.95 of the federal CCR Rule and GAEPD Rule 391-3-4-.10(6)(a)-(c).

Assessment monitoring of the groundwater monitoring unit at AP-3, A, B, and B' began according to 40 CFR § 257.95 in January 2018. An Assessment of Corrective Measures (ACM) Report for AP-3, A, B, and B' was submitted in June 2019 per 40 CFR § 257.96 to address a statistically significant level (SSL) of beryllium. The initial groundwater monitoring report for the R6 CCR Landfill was completed on July 31, 2019 (Atlantic Coast Consulting, Inc. [ACC] 2019). Assessment monitoring for the R6 CCR Landfill was initiated on November 13, 2019. The current semiannual remedy selection progress report for the combined groundwater monitoring unit at AP-3, A, B, B', and the R6 Landfill addresses beryllium and selenium SSLs and is included in **Appendix A**.

This 2021 Semiannual Groundwater Monitoring and Corrective Action Report includes combined results for assessment monitoring of AP-3, A, B, B' and the R6 CCR Landfill.

## 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 photographs of the Plant Yates area (ACC 2020).

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 and varies with topography. 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 typically ranges from 10<sup>-3</sup> to 10<sup>-4</sup> centimeters per second, based on multiple rising-head and falling-head slug tests (ACC 2019). 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 multi-unit groundwater monitoring system was installed within the uppermost aquifer at the site. The multi-unit monitoring system is designed to monitor groundwater passing the waste boundary of the CCR units within the uppermost aquifer. Wells are located to monitor upgradient and downgradient conditions based on groundwater flow direction. The compliance monitoring well network is summarized in **Table 1A**. Additionally, a series of piezometers and non-network wells is installed to supplement characterization and groundwater elevation measurements (**Table 1B**).

As is 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 a "D" indicates upper bedrock. The monitoring well network for the site is depicted on **Figure 3**.

## 2 **GROUNDWATER MONITORING**

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed in 2021 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**.

Groundwater sampling events conducted by Arcadis U.S., Inc. (Arcadis) in February and March 2021 at AP-3, A, B, B', and the R6 CCR Landfill are summarized in **Table 2**. Field sampling logs are provided in **Appendix B**.

## 2.1 Monitoring Well Installation and Maintenance

Deep bedrock piezometer PZ-37D was installed in April 2021 to delineate selenium and monitor the portion of the bedrock aquifer below PZ-37. A Well Installation Report was submitted to GAEPD under a separate cover on June 30, 2021. The PZ-37D analytical data are included in **Appendix D** and discussed in the Semiannual Remedy Selection and Design Progress Report (**Appendix A**). A copy of the Well Installation Report is included in **Appendix C**. Other monitoring well-related activities were limited to visually inspecting well conditions prior to sampling, recording site conditions, and performing exterior maintenance to provide safe access for sampling.

## 2.2 Assessment Monitoring

An assessment monitoring program was initiated on January 14, 2018 at AP-3, B, and B' and in September 2019 for AP-A. A notice of assessment monitoring was placed in the operating record on May 15, 2018. AP-A is an inactive surface impoundment subject to the revised requirements of 40 CFR § 257.100 and was added to the multi-unit system on April 17, 2019. Assessment monitoring was initiated at the R6 CCR Landfill following review of the results of the March 2019 monitoring event. The first semiannual assessment monitoring event for the R6 CCR Landfill occurred in October 2019; a notice of assessment monitoring for the R6 CCR Landfill was placed in the operating record on November 13, 2019. AP-3, A, B, B' and the R6 CCR Landfill currently remain in assessment monitoring.

Monitoring wells at AP-3, A, B, B' and the R6 CCR Landfill were sampled for Appendix IV parameters in February 2021 pursuant to 40 CFR § 257.95(b). In accordance with 40 CFR § 257.95(d), a semiannual assessment monitoring event occurred in March 2021 in which samples were collected and analyzed for Appendix III parameters and Appendix IV parameters detected at concentrations exceeding the laboratory method detection limit (MDL) during the February 2021 event. Groundwater sampling activities completed during the reporting period as part of semiannual assessment monitoring are summarized in **Table 2**.

## 2.3 Other Groundwater Sampling

To further characterize groundwater quality at the site, additional samples were collected from wells YAMW-1 through YAMW-5, PZ-35, and PZ-37 in February and March 2021. To further delineate selenium concentrations vertically near PZ-37, a sample was collected following installation of newly installed well PZ-37D. Well locations are presented on **Figure 3**. Sampling and analysis were performed following the procedures outlined in Section 3. Analytical results of this additional sampling are included in **Table 6** and discussed in the Semiannual Remedy Selection and Design Progress Report included in **Appendix A**.

## 2.4 Assessment of Corrective Measures

Based on assessment monitoring results presented in the 2018 Annual Groundwater and Corrective Action Monitoring Report, a Notice of Assessment of Corrective Measures was placed in the operating record on February 12, 2019 for the AP-3, B, and B' units in accordance with 40 CFR § 257.96. AP-A was added to the multi-unit groundwater monitoring system on April 17, 2019. The Assessment of Corrective Measures Report for AP-3, A, B, and B' was placed in the operating record on June 12, 2019. The first Semiannual Remedy Selection and Design Progress Report was submitted on December 12, 2019 and updated on January 31, 2020. January 31, 2020 is also the date that the R6 CCR Landfill was incorporated into the ACM. **Appendix A** contains the Semiannual Remedy Selection and Design Progress Report.

# **3 SAMPLING METHODOLOGY AND ANALYSIS**

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

## 3.1 Groundwater Flow Direction, Gradient, and Velocity

Before the February and March 2021 assessment sampling events, static water levels were recorded from piezometers and wells in the well network at AP-3, A, B, B' and the R6 CCR Landfill. Water levels were collected from the monitoring wells and piezometers as noted in **Table 3**.

Saprolite, transition zone, and shallow bedrock groundwater elevation data were used to prepare potentiometric surface elevation contour maps for February and March 2021 (**Figures 4** and **5**, respectively). Groundwater elevations ranged from 732.56 feet (PZ-35) to 801.53 feet (YGWA-39). The groundwater flow direction for the saprolite, transition zone, and shallow bedrock wells is generally toward the west, northeast, and east from the area south of the R6 Landfill ash disposal area, which serves as a topographic high and groundwater recharge area. Groundwater flows west from the eastern portions of the Ash Management Area, AP-3 area, and AP-B' area to the central portion of the site. The groundwater flow direction is consistent with historical patterns and follows the topographic low between the Ash Management Area (AMA) and R6. Deeper bedrock groundwater elevations vary across the site, ranging from 728.60 feet (YGWC-43) to 793.34 feet (YGWC-40). It is interpreted that these variations 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:

$$v = \frac{k\left(\frac{dh}{dl}\right)}{n_e}$$
where:  
v = groundwater seepage velocity  
k = hydraulic conductivity  
dh/dl = hydraulic gradient  
n\_e = effective porosity

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 March 2021 are presented in **Table 4**. The calculated average linear flow velocity for this reporting period is 26 feet per year.

## 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 use at well locations.

An AquaTroll 600 (In-Situ<sup>®</sup> field instrument) was used to monitor and record field water quality parameters during well purging. The stabilization criteria for pH and specific conductivity readings, as noted below, were used to verify stabilization prior to 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 unit for pH;
- ± 5% for specific conductivity; and
- Less than 5 nephelometric turbidity units for turbidity.

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

### 3.3 Laboratory Analyses

During the February 2021 sampling event, the AP-3, A, B, B', and R6 CCR Landfill wells were sampled for analysis of Appendix IV parameters according to 40 CFR § 257.95(b). Sampling locations per field event are summarized in **Table 2**. **Table 5** provides a summary of the constituents monitored during the events. Groundwater samples collected during the semiannual event in March 2021 were analyzed for Appendix III parameters as well as those Appendix IV parameters detected above the laboratory MDL during the February 2021 event, in accordance with 40 CFR § 257.95(d). Thallium was not detected

above the laboratory MDL during the February 2021 annual assessment event. Therefore, it was not sampled for in March 2021. The methods used for groundwater sample analyses are listed in the analytical laboratory reports included in **Appendix D**.

Analytical data collected during the 2021 sampling events are 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. Laboratory reports and chain-of-custody records for the monitoring events are included in **Appendix D**.

## 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 sample per every 10 samples. QA/QC samples included equipment blanks (where non-dedicated equipment was used), field blanks, and duplicate samples. Groundwater quality data in this report were validated in accordance with USEPA guidance (USEPA 2011) and analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spike/matrix spike duplicate recoveries and relative percent differences, post-digestion spikes, laboratory and field duplicate relative percent differences, equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags have been applied to the data using USEPA procedures as guidance (USEPA 2017). The data validation report included in **Appendix D** 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 D**.

A "J" flag following a value indicates 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 obtained from the AP-3, A, B, B', and R6 Landfill assessment monitoring event (March 2021) was performed pursuant to 40 CFR §§ 257.93–95 following established, certified statistical methods. The statistical method for 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<sup>™</sup> groundwater statistical software was used to perform statistical analyses. Sanitas<sup>™</sup> 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 March 2021 event 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 containing 100 percent non-detects.
- When data contained less than 15 percent non-detects in background samples, 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

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

The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. The background levels are then used when determining the groundwater protection standards (GWPS) in accordance with 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a).

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

- The maximum contaminant level (MCL) established under 40 CFR §§ 141.62 and 141.66.
- For the following constituents:

- Cobalt: 0.006 milligram per liter (mg/L)
- Lead: 0.015 mg/L
- o Lithium: 0.040 mg/L
- o Molybdenum: 0.100 mg/L; or
- The background level for constituents for which the background level is higher than the MCL or CCR Rule identified GWPS.

USEPA revised the federal CCR Rule on July 30, 2018, providing GWPSs for cobalt, lead, lithium, and molybdenum as described above in 40 CFR 257.95(h)(2). Those updated GWPSs have not yet been incorporated into the current GAEPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, background concentrations are considered when determining the GWPS for constituents for which an MCL has not been established (or where the background level is higher than the MCL). Under the existing GAEPD rules, the GWPS is:

- The MCL; or
- The background concentration when an MCL is not established or when the background concentration is higher than the MCL.

In accordance with the above federal and state rules, GWPSs have been established for statistical comparison of Appendix IV constituents at AP-3, A, B, B', and the R6 CCR Landfill. **Table 7** summarizes the background limits established for each monitoring well for the March 2021 sampling event as well as the GWPSs established under federal and state rules.

To complete the statistical comparison to GWPSs, confidence intervals were constructed for each of the Appendix IV parameters detected in each downgradient well. Those confidence intervals were compared to the GWPSs 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, an 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 for AP-3, A, B, B,' and the R6 CCR Landfill to determine whether concentrations statistically exceed the established GWPSs. Appendix IV analytical data from the first 2021 semiannual assessment monitoring events for the combined AP-3, A, B, B', and R6 CCR Landfill were statistically analyzed in accordance with the Statistical Analysis Plan (Groundwater Stats Consulting 2019).

### 4.2.1 Appendix III Monitoring Constituents

Based on review of the Appendix III statistical analysis from the March 2021 sampling event presented in **Appendix E**, Appendix III constituents have not returned to background levels; therefore, assessment monitoring should continue pursuant to 40 CFR § 257.95(f). **Appendix E** includes a table summarizing site monitoring wells for which analytical sampling results have identified constituents with SSIs.

### 4.2.2 Appendix IV Assessment Monitoring Constituents

Statistical analysis of the March 2021 Appendix IV data was completed using the GWPSs established according to 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a). The following SSLs were identified:

- Beryllium: YGWC-38; and
- Selenium: YGWC-38 and PZ-37.

Sanitas<sup>™</sup> statistical output data for calculation of site-specific background concentrations (interwell tolerance limits) and confidence intervals for each Appendix IV constituent in downgradient wells are provided in **Appendix F**.

## 5 MONITORING PROGRAM STATUS

In accordance with 40 CFR § 257.94(e), an assessment monitoring program was implemented in January 2018 for AP-3, A, B, and B'. SSLs of Appendix IV parameters were identified for the multi-unit network during the 2019 assessment monitoring events. The R6 CCR Landfill was placed in assessment monitoring following the initial detection monitoring event in March 2019, and assessment monitoring was initiated with the second 2019 semiannual monitoring event. Pursuant to 40 CFR § 257.96(b), Georgia Power will continue to monitor groundwater at AP-3, A, B, B', and the R6 CCR Landfill in accordance with the assessment monitoring program regulations of 40 CFR § 257.95 while ACM efforts are implemented to evaluate SSL concentrations of beryllium and selenium.

Horizontal and vertical delineation of current and historical SSLs of beryllium, cobalt, and selenium is complete. The ACM efforts completed during the reporting period are summarized in the Semiannual Remedy Selection and Design Progress Report in **Appendix A**. Georgia Power will continue to include future semiannual progress reports with each groundwater monitoring and corrective action report.

## 6 CONCLUSIONS AND RECOMMENDATIONS

This 2021 Semiannual Groundwater Monitoring and Corrective Action Report was prepared to fulfill the requirements of USEPA's 40 CFR §257.95 and GAEPD's Rule 391-3-4-.10. The groundwater flow direction interpreted during this event is consistent with historical evaluations. Statistical evaluations of groundwater monitoring data for the combined monitoring unit AP-3, A, B, B', and the R6 Landfill identified SSLs of beryllium in well YGWC-38 and selenium in well YGWC-38 and delineation well PZ-37. Delineation data for the site indicate that constituents showing SSLs are spatially and vertically delineated onsite to concentrations below the GWPSs.

Assessment monitoring at AP-3, A, B, B', and the R6 CCR Landfill will continue pursuant to 40 CFR § 257.95. In addition, ACM efforts of the multi-unit site will continue as required by 40 CFR § 257.96. In accordance with GAEPD Rule 391-3-4-.10(6)(c), the next semiannual monitoring event is scheduled for August 2021.

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# **TABLES**

2021 Semiannual Groundwater and Corrective Action Report Plant Yates AP-3, A, B, B' and R6 CCR Landfill Newnan, GA

#### Table 1A - Monitoring Well Network Summary 2021 Semiannual Groundwater Monitoring and Corrective Action Report Plant Yates - AP-3, A, B, B' and R6 CCR Landfill



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
Upgradient Wells							
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
AP-3, A, B and B'			1	1			
YGWC-23S	9/21/2015	764.91	38.91	726.00	28.61	736.30	Downgradient
YGWC-24SA	6/4/2020	765.00	57.00	708.00	47.00	718.00	Downgradient
YGWC-36A	9/22/2020	740.88	51.20	689.68	41.18	699.70	Downgradient
YGWC-49	7/13/2016	782.73	78.53	704.20	67.63	715.10	Downgradient
R6 CCR Landfill							
YGWC-38	7/23/2016	799.69	49.59	749.10	39.59	760.10	Downgradient
YGWC-41	7/8/2016	803.92	66.82	736.60	56.82	747.10	Downgradient
YGWC-42	7/8/2016	797.86	59.76	738.10	49.36	748.50	Downgradient
YGWC-43	7/9/2016	744.96	79.66	665.30	69.16	675.80	Downgradient

#### Notes:

Elevation is presented in U.S. Survey Feet (North American Vertical Datum of 1988) based on June 2020 survey.

#### Acronyms and Abbreviations:

bTOC = below top of casing ft = feet

#### Table 1B - Non- Network Well Summary 2021 Semiannual Monitoring and Corrective Action Report Plant Yates - AP-3, A, B, B' and R6 CCR Landfill



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)	Purpose
AP-3, A, B and B'							
YGWA-6S	5/19/2014	782.47	39.87	742.60	29.57	752.90	Piezometer
YGWA-6I	5/19/2014	782.73	69.03	713.70	58.73	724.00	Piezometer
YAMW-1	9/19/2018	743.83	69.93	673.90	59.93	683.90	Downgradient
PZ-04S	5/21/2014	784.25	32.75	751.50	22.45	761.80	Piezometer
PZ-05S	5/21/2014	784.64	41.94	742.70	31.64	753.00	Piezometer
PZ-06D	5/19/2014	782.02	134.02	648.00	83.72	698.30	Piezometer
PZ-24IA	6/3/2020	764.33	89.53	674.80	79.53	684.80	Piezometer
PZ-35	7/20/2016	743.81	50.01	693.80	38.91	704.90	Downgradient
PZ-48	7/11/2016	779.83	58.73	721.10	48.43	731.40	Piezometer
R6 CCR Landfill							
PZ-37	7/6/2016	760.78	49.78	711.00	39.28	721.50	Piezometer
PZ-37D	4/16/2021	761.12	202.30	558.80	192.30	568.80	Piezometer
PZ-51	11/8/2019	744.30	36.32	707.98	26.32	717.98	Piezometer
YAMW-2	11/12/2019	781.04	46.48	734.56	36.48	744.56	Downgradient
YAMW-3	11/6/2019	796.05	91.44	704.61	81.44	714.61	Downgradient
YAMW-4	11/7/2019	805.59	96.55	709.04	86.55	719.04	Downgradient
YAMW-5	11/13/2019	788.90	90.34	698.56	80.34	708.56	Downgradient

#### Notes:

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

#### Acronyms and Abbreviations:

bTOC = below top of casing ft = feet

#### Table 2 - Groundwater Sampling Plan

2021 Semiannual Groundwater Monitoring and Corrective Action Report Plant Yates - AP-3, A, B, B' and R6 CCR Landfill



Well ID	Hydraulic	Assessment <sup>1</sup> Monitoring	2020 First Semiannual Sampling <sup>2</sup>	
	Location	February 8-10, 2021	March 2-4, 2021	
AP-3, A, B and B'				
YGWA-4I	Upgradient	Х	Х	
YGWA-5I	Upgradient	Х	Х	
YGWA-5D	Upgradient	Х	Х	
YGWA-17S	Upgradient	Х	Х	
YGWA-18S	Upgradient	Х	Х	
YGWA-18I	Upgradient	Х	Х	
YGWA-20S	Upgradient	Х	Х	
YGWA-21I	Upgradient	Х	Х	
YGWC-23S	Downgradient	Х	Х	
YGWC-24SA	Downgradient	Х	Х	
YGWC-36A	Downgradient	Х	Х	
YGWC-49	Downgradient	Х	Х	
R6 CCR Landfill				
YGWA-39	Upgradient	Х	Х	
YGWA-40	Upgradient	Х	Х	
YGWC-38	Downgradient	Х	X	
YGWC-41	Downgradient	Х	Х	
YGWC-42	Downgradient	Х	Х	
YGWC-43	Downgradient	Х	X	

#### Notes:

1. All wells analyzed per Appendix IV.

2. Appendix III and detected Appendix IV.

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

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

USEPA = United States Environmental Protection Agency

CCR = Coal Combustion Residuals

#### Table 3 - Summary of Groundwater Elevations

2021 Semiannual Groundwater Monitoring and Corrective Action Report Plant Yates - AP-3, A, B, B' and R6 CCR Landfill



Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation (ft)				
February 2021	February 2021							
YGWA-4I	2/8/2021	784.21	22.62	761.59				
YGWA-5I	2/8/2021	784.54	18.75	765.79				
YGWA-5D	2/8/2021	784.53	21.77	762.76				
YGWA-6S	2/8/2021	782.47	17.54	764.93				
YGWA-6I	2/8/2021	782.73	18.90	763.83				
YGWA-17S	2/8/2021	783.05	11.85	771.20				
YGWA-18S	2/8/2021	790.57	19.55	771.02				
YGWA-18I	2/8/2021	790.57	22.90	767.67				
YGWA-20S	2/8/2021	767.12	11.19	755.93				
YGWA-21I	2/8/2021	783.70	31.21	756.10				
YGWC-23S	2/8/2021	794.91	16.95	747.44				
YGWC-24SA	2/8/2021	765.00	28.00	737.00				
YGWC-36A	2/8/2021	740.88	9.58	731.30				
YGWC-38	2/8/2021	799.69	30.75	768.78				
YGWA-39	2/8/2021	818.19	17.37	800.82				
YGWA-40	2/8/2021	815.73	22.93	792.80				
YGWC-41	2/8/2021	803.92	27.44	776.48				
YGWC-42	2/8/2021	797.86	28.19	769.67				
YGWC-43	2/8/2021	744.96	16.36	728.60				
YGWC-49	2/8/2021	782.73	31.72	751.01				
PZ-35	2/8/2021	743.81	11.25	732.56				
PZ-04S	2/8/2021	784.25	24.13	760.12				
PZ-05S	2/8/2021	784.64	18.69	765.95				
PZ-06D	2/8/2021	782.02	21.72	760.30				
PZ-24IA	2/8/2021	764.33	28.25	736.08				
PZ-37	2/8/2021	760.78	12.55	746.40				
PZ-48	2/8/2021	799.83	19.74	780.09				
PZ-51	2/8/2021	744.30	7.36	736.94				
YAMW-1	2/8/2021	743.83	11.07	732.76				
YAMW-2	2/8/2021	781.04	20.79	760.25				
YAMW-3	2/8/2021	796.05	35.46	760.59				
YAMW-4	2/8/2021	805.59	31.09	774.50				
YAMW-5	2/8/2021	788.90	13.48	775.42				
March 2021								
YGWA-4I	3/2/2021	784.21	22.12	762.09				
YGWA-5I	3/2/2021	784.54	18.19	766.35				
YGWA-5D	3/2/2021	784.53	21.88	762.65				
YGWA-6S	3/2/2021	782.47	17.87	764.60				
YGWA-6I	3/2/2021	782.73	18.25	764.48				
YGWA-17S	3/2/2021	783.05	11.38	771.67				

#### Table 3 - Summary of Groundwater Elevations

2021 Semiannual Groundwater Monitoring and Corrective Action Report Plant Yates - AP-3, A, B, B' and R6 CCR Landfill



Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation (ft)
YGWA-18S	3/2/2021	790.57	18.94	771.63
YGWA-18I	3/2/2021	790.57	22.41	768.16
YGWA-20S	3/2/2021	767.12	11.28	755.84
YGWA-21I	3/2/2021	783.70	31.10	756.10
YGWC-23S	3/2/2021	794.91	16.59	747.44
YGWC-24SA	3/2/2021	765.00	27.45	737.55
YGWC-36A	3/2/2021	740.88	10.02	730.86
YGWC-38	3/2/2021	799.69	30.42	768.78
YGWA-39	3/2/2021	818.19	16.66	801.53
YGWA-40	3/2/2021	815.73	22.39	793.34
YGWC-41	3/2/2021	803.92	26.88	777.04
YGWC-42	3/2/2021	797.86	27.54	770.32
YGWC-43	3/2/2021	744.96	16.15	728.81
YGWC-49	3/2/2021	782.73	31.50	751.23
PZ-35	3/2/2021	743.81	11.14	732.67
PZ-04S	3/2/2021	784.25	23.74	760.51
PZ-05S	3/2/2021	784.64	18.14	766.50
PZ-06D	3/2/2021	782.02	21.22	760.80
PZ-24IA	3/2/2021	764.33	27.68	736.65
PZ-37	3/2/2021	760.78	11.93	746.40
PZ-48	3/2/2021	799.83	19.35	780.48
PZ-51	3/2/2021	744.30	6.98	737.32
YAMW-1	3/2/2021	743.83	10.80	733.03
YAMW-2	3/2/2021	781.04	19.75	761.29
YAMW-3	3/2/2021	796.05	34.58	761.47
YAMW-4	3/2/2021	805.59	30.32	775.27
YAMW-5	3/2/2021	788.90	13.03	775.87

#### Notes:

Elevation is presented in U.S. Survey Feet (North American Vertical Datum of 1988) based on June 2020 survey.

#### Acronyms and Abbreviations:

bTOC = below top of casing ft = feet TOC = top of casing n<sub>e</sub>



Equation

V = K (dh/dl)

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

where:

#### Values Used in Calculation

	Value		Source
K <sub>max</sub> :	3.70E-03	cm/sec	
	10	ft/day	
K <sub>min</sub> :	9.70E+05	cm/sec	Constants 1
	0.28	ft/day	See note 1
K <sub>avg</sub> :	2.90E-04	cm/sec	
	0.8	ft/day	
Di	stance from:		
YGWA-40 to YGWA-42	1,098	ft	
YGWC-49 to PZ-24I	1,002	ft	
Groun	dwater Eleva	ation	Date Collected:
YGWA-40	792.80		
YGWC-42	769.67	foot	Echruppy 2021
YGWC-49	751.01	ieei	Tebruary 2021
PZ-24I	736.08		
YGWA-40	793 34		
YGWC-42	770 32		
YGWC-49	751.23	feet	March 2021
PZ-24I	736.65		
			Hydraulic gradient from:
i <sub>1</sub> =	0.021	unitless	YGWA-40 to YGWC-42 (Feb. 2021)
i <sub>2</sub> =	0.015	unitless	YGWC-49 to PZ-24I (Feb. 2021)
i <sub>avg</sub> = 0.018		unitless	Average
			Hydraulic gradient from:
i <sub>1</sub> =	0.021	unitless	YGWA-40 to YGWC-42 (Mar. 2021)
i <sub>2</sub> =	0.015	unitless	YGWC-49 to PZ-24I (Mar. 2021)
i <sub>avg</sub> =	0.018	unitless	Average
	0.00		Con ante 2
n <sub>e</sub> =	0.20	unitiess	See note 2

Minimum Linear Flow Velocity

February 2021

February 2021

	<u>March 2021</u>
V <sub>min</sub> = (0.28) (0.018)	V <sub>min</sub> = (0.28) (0.018)
0.20	0.20

V<sub>min</sub> = 0.03 ft/day, or 11 ft/year V<sub>min</sub> = 0.03 ft/day, or 11 ft/year

Maximum Linear Flow Velocity

	<u>March 2021</u>
V <sub>max</sub> = (10) (0.018)	V <sub>max</sub> = <u>(10) (0.018)</u>
0.20	0.20

V<sub>max</sub> = 0.9 ft/day, or 329 ft/year

 $V_{max}$  = 0.9 ft/day, or 329 ft/year

Average Linear Flow Velocity					
February 2021		March 2021			
	V <sub>avg</sub> = (0.8)(0.018)	$V_{avg} = (0.8)(0.018)$			
	0.20	0.20			
	V <sub>avg</sub> = 0.07 ft/day, or 26 ft/year	V <sub>avg</sub> = 0.07 ft/day, or 26 ft/year			

Notes:

Slug tests performed by Atlantic Coast Consulting, Inc. at AP-3/B'B'/R6 (2014-2017). Geomean of test results used for Kavg
 Default value recommended by USEPA for silty sand-type soil (USEPA 1989).



Plant Yates AP-3, A, B, B' and R6 CCR Landfill

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				

#### Notes:

Italicized groundwater monitoring parameters were not detected during the annual assessment event (February 2021) and therefore not included in March 2021 semiannual parameter list.

CFR = Code of Federal Regulations

2021 Semiannual Groundwater Monitoring and Corrective Action Report

Plant Yates - A-3, A, B, B' and R6 CCR Landfill

	Analyte	YGWA-4I	YGWA-4I	YGWA-5D	YGWA-5D	YGWA-5I	YGWA-5I	YGWA-17S	YGWA-17S
	Allalyte	2/9/2021	3/3/2021	2/8/2021	3/2/2021	2/8/2021	3/2/2021	2/9/2021	3/3/2021
	рН	6.06	6.21	7.66	7.15	5.67	5.63	5.62	5.52
	Boron		0.0056 J		0.0068 J		0.011 J		0.010 J
	Calcium		7.7		1.6		2.6		2.5
Appendix III	Chloride		4.1		3.2		4.3		7.1
	Fluoride	< 0.050	< 0.050	0.055 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	Sulfate		7.8		2.6		2.3		5.2
	Total Dissolved Solids		80.0		52.0		67.0		57.0
	Antimony	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028
	Arsenic	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Barium	0.013	0.014	0.0079 J	0.014	0.020	0.019	0.016	0.017
	Beryllium	< 0.000046	< 0.000046	< 0.000046	< 0.000046	< 0.000046	< 0.000046	0.000094 J	0.000099 J
	Cadmium	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012
	Chromium	< 0.00055	0.0013 J	< 0.00055	< 0.00055	< 0.00055	< 0.00055	0.00098 J	0.00082 J
Appendix IV	Cobalt	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
	Lead	< 0.000036	< 0.000036	0.00013 J	0.000051 J	0.000037 J	0.000092 J	< 0.000036	< 0.000036
	Lithium	0.011 J	0.012 J	0.0063 J	0.0018 J	0.0032 J	0.0031 J	< 0.00081	< 0.00081
	Mercury	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.00078	< 0.000078
	Molybdenum	< 0.00069	< 0.00069	0.0011 J	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069
	Combined Radium - 226/228	0.626 U	1.00	2.89	1.67	0.613 U	0.579 U	0.529 U	0.590 U
	Selenium	< 0.0016	0.0019 J	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016
	Thallium	< 0.00014		< 0.00014		< 0.00014		< 0.00014	

#### Notes:

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

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

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

-- Not analyzed for this constituent.

< 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.

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# **ARCADIS**

2021 Semiannual Groundwater Monitoring and Corrective Action Report

Plant Yates - A-3, A, B, B' and R6 CCR Landfill

	Analyte	YGWA-18I	YGWA-18I	YGWA-18S	YGWA-18S	YGWA-20S	YGWA-20S	YGWA-21I	YGWA-21I
	Analyte	2/9/2021	3/3/2021	2/9/2021	3/3/2021	2/9/2021	3/3/2021	2/9/2021	3/4/2021
	рН	6.12	5.89	5.43	5.31	5.86	5.89	6.95	6.80
	Boron		< 0.0052		0.0094 J		< 0.0052		0.0079 J
	Calcium		5.2		0.96 J		2.4		8.7
Appendix III	Chloride		7.0		7.2		2.7		1.8
	Fluoride	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.092 J	0.091 J
	Sulfate		< 0.50		1.0		< 0.50		4.5
	Total Dissolved Solids		95.0		37.0		53.0		110
	Antimony	< 0.00028	< 0.00028	< 0.00028	0.00067 J	0.00032 B	< 0.00028	0.0013 B	0.0014 J
	Arsenic	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.0010 J	0.00078 J
	Barium	0.023	0.023	0.017	0.017	0.015	0.015	0.011	0.011
	Beryllium	< 0.000046	< 0.000046	0.000098 J	0.00011 J	0.000068 J	0.000068 J	< 0.000046	< 0.000046
	Cadmium	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	0.00041 J	< 0.00012
	Chromium	0.00083 J	0.00087 J	0.0013 J	0.0010 J	0.00056 J	< 0.00055	< 0.00055	< 0.00055
Appandix IV	Cobalt	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	0.0090	0.0065
Appendix IV	Lead	0.000050 J	< 0.000036	0.000094 J	0.000076 J	0.000063 J	0.000045 J	< 0.000036	< 0.000036
	Lithium	0.0031 J	0.0034 J	0.0019 J	0.0021 J	< 0.00081	< 0.00081	0.0060 J	0.0062 J
	Mercury	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078
	Molybdenum	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069
	Combined Radium - 226/228	0.314 U	0.565 U	0.259 U	0.352 U	0.284 U	0.133 U	1.24	1.20
	Selenium	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016
	Thallium	< 0.00014		< 0.00014		< 0.00014		< 0.00014	

#### Notes:

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

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

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# **ARCADIS**

2021 Semiannual Groundwater Monitoring and Corrective Action Report

Plant Yates - A-3, A, B, B' and R6 CCR Landfill

	Analyte	YGWA-39	YGWA-39	YGWA-40	YGWA-40	YGWC-23S	YGWC-23S	YGWC-24SA	YGWC-24SA
	Allalyte	2/10/2021	3/4/2021	2/10/2021	3/4/2021	2/9/2021	3/4/2021	2/9/2021	3/3/2021
	pН	5.80	5.54	5.19	5.23	5.61	5.44	5.69	5.70
	Boron		0.033 J		0.078		1.2		< 0.0052
	Calcium		8.2		4.6		10.2		2.4
Appendix III	Chloride		4.9		4.9		1.8		8.6
	Fluoride	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050 M1	< 0.050	< 0.050
	Sulfate		12.0		21.5		61.7 M1		< 0.50
	Total Dissolved Solids		168		57.0		96.0		70.0
	Antimony	< 0.00028	< 0.00028	< 0.00028	< 0.00028	0.00052 J	< 0.00028	< 0.00028	< 0.00028
	Arsenic	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Barium	0.027	0.028	0.032	0.032	0.042	0.043	0.031	0.025
	Beryllium	0.000051 J	< 0.000046	0.00021 J	0.00021 J	0.00015 J	0.00013 J	0.00013 J	0.000099 J
	Cadmium	0.00019 J	0.00030 J	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012
	Chromium	< 0.00055	< 0.00055	< 0.00055	< 0.00055	0.00086 J	0.00078 J	0.0011 J	< 0.00055
Appondix IV	Cobalt	0.00098 J	0.00071 J	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
Appendix IV	Lead	< 0.000036	< 0.000036	< 0.000036	< 0.000036	< 0.000036	0.00021 J	0.00036 J	< 0.000036
	Lithium	0.0071 J	0.0084 J	< 0.00081	< 0.00081	0.0026 J	0.0026 J	< 0.00081	< 0.00081
	Mercury	< 0.000078	< 0.000078	< 0.000078	< 0.000078	0.00015 J	< 0.000078	< 0.000078	< 0.000078
	Molybdenum	0.0013 J	0.0014 J	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069
	Combined Radium - 226/228	0.518 U	0.636 U	0.783 U	0.818 U	0.464 U	0.771 U	0.678 U	0.415 U
	Selenium	< 0.0016	< 0.0016	< 0.0016	< 0.0016	0.032	0.037	< 0.0016	< 0.0016
	Thallium	< 0.00014		< 0.00014		< 0.00014		< 0.00014	

#### Notes:

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2021 Semiannual Groundwater Monitoring and Corrective Action Report

Plant Yates - A-3, A, B, B' and R6 CCR Landfill

	Analyte	YGWC-36A	YGWC-36A	YGWC-38	YGWC-38	YGWC-41	YGWC-41	YGWC-42	YGWC-42
	Analyte		3/4/2021	2/9/2021	3/4/2021	2/10/2021	3/4/2021	2/10/2021	3/4/2021
	рН	6.31	5.67	5.04	5.01	4.98	4.69	5.65	5.59
	Boron		0.0088 J		6.4		4.0		14.8
	Calcium		5.6		87.0		16.4		90.7
Appendix III	Chloride		6.6		3.9		3.4		2.7
	Fluoride	< 0.050	< 0.050	< 0.050 M1	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	Sulfate		6.3		356		117		537
	Total Dissolved Solids		69.0		600		224		501
	Antimony	0.028	0.0015 J	0.00031 J	< 0.00028	0.0014 J	< 0.00028	0.00053 J	< 0.00028
	Arsenic	0.00088 J	< 0.00078	0.00098 J	< 0.00078	< 0.00078	< 0.00078	0.0016 J	< 0.00078
	Barium	0.035	0.028	0.016	0.016	0.017	0.017	0.031	0.030
	Beryllium	0.000099 J	0.00016 J	0.0029 J	0.0029	0.0015 J	0.0015	0.000057 J	< 0.000046
	Cadmium	< 0.00012	< 0.00012	0.0014 J	0.0013	< 0.00012	< 0.00012	< 0.00012	< 0.00012
	Chromium	0.00094 J	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055
Appendix IV	Cobalt	0.00038 J	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	0.0019 J	0.0018 J
	Lead	0.00051 J	0.00025 J	< 0.000036	< 0.000036	0.00020 J	< 0.000036	0.000054 J	< 0.000036
	Lithium	0.0011 J	< 0.00081	0.0067 J	0.0067 J	0.0021 J	0.0021 J	0.058	0.059
	Mercury	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078
	Molybdenum	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069	0.00094 J	0.00085 J
	Combined Radium - 226/228	0.466 U	0.0671 U	0.626 U	0.816 U	0.548 U	1.23	0.612 U	1.02
	Selenium	< 0.0016	< 0.0016	0.073	0.076	0.033	0.037	0.043	0.048
	Thallium	< 0.00014		< 0.00014		< 0.00014		< 0.00014	

#### Notes:

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# **ARCADIS**

2021 Semiannual Groundwater Monitoring and Corrective Action Report

Plant Yates - A-3, A, B, B' and R6 CCR Landfill

	Analyta	YGWC-43	YGWC-43	YGWC-49	YGWC-49	PZ-35	PZ-35	PZ-37	PZ-37
	Allalyte	2/9/2021	3/4/2021	2/9/2021	3/4/2021	2/10/2021	3/4/2021	2/9/2021	3/4/2021
	рН	5.86	5.88	5.79	5.88	5.58	5.64	5.42	5.51
	Boron		3.6		< 0.0052		0.012 J		12.4
	Calcium		32.2		13.0		4.4		118
Appendix III	Chloride		2.1		4.1		6.7		3.9
	Fluoride	0.058 J	0.063 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	Sulfate		328		75.1		8.8		485
	Total Dissolved Solids		592		145		59.0		856
	Antimony	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	0.00039 J	0.00035 J	< 0.00028
	Arsenic	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.00096 J	< 0.00078	0.0015 J	< 0.00078
	Barium	0.041	0.039	0.071	0.069	0.032	0.033	0.036	0.036
	Beryllium	0.00053 J	0.00056	0.00013 J	0.00010 J	0.00025 J	0.00025 J	0.00029 J	0.00017 J
	Cadmium	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	0.00042 J	0.00028 J
	Chromium	< 0.00055	< 0.00055	0.0020 J	0.0017 J	0.00060 J	0.00070 J	< 0.00055	< 0.00055
Appandix IV	Cobalt	0.0017 J	0.0015 J	< 0.00038	< 0.00038	< 0.00038	< 0.00038	0.0023 J	0.0030 J
Appendix IV	Lead	< 0.000036	< 0.000036	< 0.000036	< 0.000036	0.000087 J	0.00015 J	0.000088 J	< 0.000036
	Lithium	0.024 J	0.025 J	0.0038 J	0.0035 J	0.0012 J	0.0015 J	0.024 J	0.028 J
-	Mercury	< 0.000078	< 0.000078	0.00014 J	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078
	Molybdenum	0.0012 J	0.0011 J	< 0.00069	< 0.00069	< 0.00069	< 0.00069	0.0016 J	0.0024 J
	Combined Radium - 226/228	6.38	6.02	0.137 U	0.579 U	< 0.546 U	< 0.397 U	1.52	1.49
	Selenium	< 0.0016	< 0.0016	0.0079 J	0.0058	< 0.0016	< 0.0016	0.28	0.27
	Thallium	< 0.00014		< 0.00014		< 0.00014		< 0.00014	

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2021 Semiannual Groundwater Monitoring and Corrective Action Report

Plant Yates - A-3, A, B, B' and R6 CCR Landfill

	Analuta	PZ-37D	YAMW-1	YAMW-1	YAMW-2	YAMW-2	YAMW-4	YAMW-4	YAMW-5
	Analyte	5/13/2021	2/9/2021	3/3/2021	2/9/2021	3/3/2021	2/9/2021	3/3/2021	2/9/2021
	рН	7.79	6.42	6.51	5.81	5.67	6.89	6.81	5.37
	Boron	1.3		0.039 J		0.032 J		0.81	
	Calcium	68.3		6.9		1.5		20.6	
Appendix III	Chloride	4.0		6.1		2.5		22.9	
	Fluoride	0.12	< 0.050	< 0.050	< 0.050	< 0.050	0.14	0.14	< 0.050
	Sulfate	178		16.9		7.9		91.7	
	Total Dissolved Solids	381		121		40.0		245	
	Antimony	0.00052 J	0.00037 J	0.025	< 0.00028	< 0.00028	0.0011 J	0.00062 J	< 0.00028
	Arsenic	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.0010 J	0.00079 J	0.00095 J
	Barium	0.015	0.039	0.035	0.0085 J	0.0082	0.020	0.021	0.042
	Beryllium	< 0.000046	< 0.000046	< 0.000046	0.000051 J	< 0.000046	< 0.000046	< 0.000046	0.00015 J
	Cadmium	< 0.00012	0.00013 J	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	0.00025 J
	Chromium	< 0.00055	0.0010 J	0.00076 J	0.0011 J	0.0012 J	0.00057 J	< 0.00055	< 0.00055
Appandix IV	Cobalt	< 0.00038	0.030	0.018	0.0010 J	0.00082 J	0.00063 J	0.0010 J	< 0.00038
Appendix IV	Lead	0.000049 J	0.00019 J	< 0.000036	0.00011 J	0.000080 J	0.00054 J	0.000096 J	0.000073 J
	Lithium	0.011 J	0.021 J	0.022 J	< 0.00081	< 0.00081	0.018 J	0.020 J	0.016 J
	Mercury	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078
	Molybdenum	0.0042 J	0.0038 J	0.0037 J	< 0.00069	< 0.00069	0.0068 J	0.0049 J	< 0.00069
	Combined Radium - 226/228	5.36	< 0.866 U	< 0.377 U	< 0.492 U	< 0.563 U	< 0.659 U	1.07	< 1.07 U
	Selenium	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	0.060
	Thallium	< 0.00014	< 0.00014		< 0.00014		< 0.00014		< 0.00014

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# Table 6 - Groundwater Analytical Data - February and March 20212021 Semiannual Groundwater Monitoring and Corrective Action ReportPlant Yates - A-3, A, B, B' and R6 CCR Landfill

	Analuta	YAMW-5
	Analyte	3/4/2021
	pН	5.32
	Boron	6.1
	Calcium	53.8
Appendix III	Chloride	3.7
	Fluoride	< 0.050
	Sulfate	340
	Total Dissolved Solids	604
	Antimony	< 0.00028
	Arsenic	< 0.00078
	Barium	0.039
	Beryllium	0.00013 J
	Cadmium	0.00018 J
	Chromium	< 0.00055
Appondix IV	Cobalt	< 0.00038
Appendix IV	Lead	0.000041 J
	Lithium	0.016 J
	Mercury	< 0.000078
	Molybdenum	< 0.00069
	Combined Radium - 226/228	1.46
	Selenium	0.061
	Thallium	

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Table 7 - Background Levels and Groundwater Protection Standards2021 Semiannual Groundwater Monitoring and Corrective Action ReportPlant Yates - AP-3, A, B, B' and R6 CCR Landfill



Constituent	Units	Background	Federal GWPS	State GWPS							
March 2021 (AP-3, A, B, B', R6 Landfill)											
Antimony	mg/L	0.0047	0.006	0.006							
Arsenic	mg/L	0.005	0.010	0.010							
Barium	mg/L	0.071	2	2							
Beryllium	mg/L	0.0005	0.004	0.004							
Cadmium	mg/L	0.0005	0.005	0.005							
Chromium	mg/L	0.0093	0.100	0.100							
Cobalt	mg/L	0.035	0.035 <sup>3</sup>	0.035 <sup>3</sup>							
Fluoride	mg/L	0.680	4	4							
Lead	mg/L	0.0013	0.015	0.0013							
Lithium	mg/L	0.030	0.040	0.030							
Mercury	mg/L	0.0002	0.002	0.002							
Molybdenum	mg/L	0.014	0.100	0.014							
Selenium	mg/L	0.005	0.050	0.050							
Thallium	mg/L	0.001	0.002	0.002							
Combined Radium - 226/228	pCi/L	6.92	6.92 <sup>3</sup>	6.92 <sup>3</sup>							

#### Notes:

1. Site background: Tolerance limits calculated from pooled upgradient well data.

2. Federal GWPS = Groundwater Protection Standard per 40 CFR §257.95(h).

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:

mg/L = millgrams per liter

pCi/L = picocuries per liter

# **FIGURES**

2021 Semiannual Groundwater and Corrective Action Report Plant Yates AP-3, A, B, B' and R6 CCR Landfill Newnan, GA



84°55'30"W 84°54'40"W 84°54'30"W 84°53'40"W 84°53'10"W 84°53'0"W 84°52'50"W 84°55'20"W 84°55'10"W 84°55'0"W 84°54'50"W 84°54'20"W 84°54'10"W 84°54'0"W 84°53'50"W 84°53'30"W 84°53'20"W

84°55'30"W

84°55'20"W

84°55'10"W

84°55'0"W

84°54'50"W

84°54'40"W

84°54'30"W

84°54'20"W

84°54'10"W

84°54'0"W

84°53'50"W

84°53'40"W

84°53'30"W

84°53'20"W

84°53'10"W

84°53'0"W

84°52'50"W






- SAPROLITE NETWORK MONITORING  $\bullet$ WELL LOCATION
- TRANSITION NETWORK MONITORING  $\bullet$ WELL LOCATION
- BEDROCK NETWORK MONITORING • WELL LOCATION
- SAPROLITE NON-NETWORK WELL/PIEZOMETER ۲
- TRANSITION NON-NETWORK  $\bigcirc$ WELL/PIEZOMETER
- BEDROCK NON-NETWORK WELL/PIEZOMETER ۲
- PERMITTED UNIT BOUNDARY

#### NOTE:

1. PZ-37D WAS INSTALLED AS A VERTICAL DELINEATION WELL FOR PZ-37 IN APRIL 2021.

2. AERIAL IMAGE SOURCES: NOVEMBER 11, 2020 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.



COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET





FIGURE 3

84°52'40"W



### LEGEND

- SAPROLITE NETWORK MONITORING € WELL LOCATION
- TRANSITION NETWORK MONITORING  $\bullet$ WELL LOCATION
- BEDROCK NETWORK MONITORING • WELL LOCATION
- SAPROLITE NON-NETWORK WELL/PIEZOMETER
- TRANSITION NON-NETWORK WELL/PIEZOMETER
- BEDROCK NON-NETWORK ۲ WELL/PIEZOMETER
- PERMITTED UNIT BOUNDARY APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION
- 736.94 GROUNDWATER ELEVATION (FEET)

#### NOTES:

1. SHALLOW GROUNDWATER ELEVATIONS ARE DERIVED FROM SOIL COMPRISED OF SAPROLITE, RANGING FROM 15 - 60 FEET BELOW GROUND SURFACE.

2. BEDROCK WELLS YGWA-40, YGWA-39, YGWC-38, YGWC-41, YGWC-42 USED FOR CONTOURING. ALL OTHER BEDROCK WELLS NOT USED TO CREATE CONTOURS.

3. SAPROLITE WELL GROUNDWATER ELEVATIONS WERE USED FOR CONTOURING FOR SAPROLITE/TRANSITION ZONE/BEDROCK WELL CLUSTER LOCATIONS.

4. AERIAL IMAGE SOURCES: NOVEMBER 11, 2020 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.

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



COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET



84°52'40"W



### LEGEND

- SAPROLITE NETWORK MONITORING WELL LOCATION
- TRANSITION NETWORK MONITORING  $\bullet$ WELL LOCATION
- BEDROCK NETWORK MONITORING • WELL LOCATION
- SAPROLITE NON-NETWORK WELL/PIEZOMETER
- TRANSITION NON-NETWORK WELL/PIEZOMETER
- BEDROCK NON-NETWORK ۲ WELL/PIEZOMETER
- PERMITTED UNIT BOUNDARY APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION
- 773.31 GROUNDWATER ELEVATION (FEET)

#### NOTES:

1. SHALLOW GROUNDWATER ELEVATIONS ARE DERIVED FROM SOIL COMPRISED OF SAPROLITE, RANGING FROM 15 - 60 FEET BELOW GROUND SURFACE.

2. BEDROCK WELLS YGWA-40, YGWA-39, YGWC-38, YGWC-41, YGWC-42 USED FOR CONTOURING. ALL OTHER BEDROCK WELLS NOT USED TO CREATE CONTOURS.

3. SAPROLITE WELL GROUNDWATER ELEVATIONS WERE USED FOR CONTOURING FOR SAPROLITE/TRANSITION ZONE/BEDROCK WELL CLUSTER LOCATIONS.

4. AERIAL IMAGE SOURCES: NOVEMBER 11, 2020 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.

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



COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET



84°52'40"W

## **APPENDIX A**

Semiannual Remedy Selection and Design Progress Report

2021 Semiannual Groundwater and Corrective Action Report Plant Yates AP-3, A, B, B' and R6 CCR Landfill Newnan, GA





# Semiannual Remedy Selection and Design

## **Progress Report**

Plant Yates – AP-3, A, B, B'/R6 CCR Landfill Newnan, Georgia

August 31, 2021

## Semiannual Remedy Selection and Design Progress Report

Plant Yates - AP-3, A, B, B'/R6 CCR Landfill, Newnan, Georgia

August 31, 2021

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

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Semiannual Remedy Selection and Design Progress Report Ash Ponds 3, A, B, B' and R6 Landfill

## **Attachment**

Attachment 1 Analytical Lab Reports

## **Acronyms and Abbreviations**

ACC	Atlantic Coast Consulting, Inc.							
ACM	Assessment of Corrective Measures							
AMA	Ash Management Area							
amsl	above mean sea level							
AP	Ash Pond							
AP-3	Ash Pond 3							
AP-A	Ash Pond A							
AP-B	Ash Pond B							
AP-B'	Ash Pond B'							
ash ponds	Ash Ponds 3, A, B, B'							
bgs	below ground surface							
CCR	Coal Combustion Residuals							
CFR	Code of Federal Regulations							
CSM	conceptual site model							
ft	feet							
GAEPD	Georgia Environmental Protection Division							
Georgia Power	Georgia Power Company							
GWPS	Groundwater Protection Standard							
ISS	In Situ Stabilization/Solidification							
mg/L	milligram per liter							
MNA	monitored natural attenuation							
MODFLOW-US	GT Modular Three-Dimensional Finite-Difference Unstructured Grid Transport							
NADV88	North American Vertical Datum 1988							
SSL	statistically significant level							
TDS	total dissolved solids							
USEPA	United States Environmental Protection Agency							
USGS	United States Geological Survey							

## **Professional Certification**

This Semiannual Remedy Selection and Design Progress Report, Georgia Power Company - Plant Yates, Ash Ponds 3, A, B, B' and the R6 Landfill, has been prepared in accordance with the United States Environmental Protection Agency coal combustion residual rule, specifically 40 Code of Federal (CFR) 257.97(a) and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10(6)(a). This report describes the progress made during the first semiannual period of 2021 in selecting and designing a remedy previously documented in the Assessment of Corrective Measures Report – Plant Yates Ash Ponds 3, A, B, B' (ACC 2019).



J. Geoffrey Gay, P.E. Technical Expert (Eng) Georgia Registration No. PE 27801

8.31.21

Date

## **1** Introduction

In accordance with the United States Environmental Protection Agency (USEPA) coal combustion residual (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D; published in 80 FR 21302-21501, April 17, 2015; CCR Rule or The Rule), and on behalf of the Georgia Power Company (Georgia Power), this Semiannual Remedy Selection and Design Progress Report (Semiannual Progress Report) has been prepared for Plant Yates; Ash Ponds 3, A, B, and B' (ash ponds); and the R6 CCR Landfill (collectively, the Site) pursuant to 40 CFR § 257.97(a) and Georgia Environmental Protection Division (GAEPD) Rule 391-3-4.10(6)(a). To support the evaluation of potential remedies, this Semiannual Progress Report documents activities completed at the Site since the January 2021 submittal of the Semiannual Remedy Selection and Design Progress Report (Arcadis 2021a).

### 1.1 Site Description

The general site description provided in this section is modified from the 2021 Semiannual Groundwater Monitoring and Corrective Action Report (Arcadis 2021b). The Site 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, approximately 8 miles northwest of the city of Newnan and 13 miles southeast of the city of Carrollton. A general Site layout is shown in **Figure 1**. Plant Yates was once a coal-fired power generating facility but was converted to natural gas combustion turbines in 2014. Plant Yates was built after World War II and originally had seven coal-fired steam generating units (Units 1 - 7). Units 1 through 5 were retired in 2015 following approval by the Georgia Public Service Commission through the company's 2013 Integrated Resource Plan. The two largest units (Units 6 and 7) were converted from coal to natural gas and remain in service. Plant Yates is comprised of multiple CCR units which are in the process of closing in accordance with federal and state regulations. Ash Ponds 3, A, B, and B' (ash ponds); and the R6 CCR Landfill are the subject of this Remedy Selection and Design Progress Report.

Plant Yates is located within 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. A thin layer of soil from 1 to 2 feet (ft) thick overlies a thick layer of saprolite. The saprolite, which extends to typical depths of 20 to 40 ft below ground surface (bgs), was formed in-place by the physical and chemical weathering of the underlying metamorphic rocks. A zone of variable thickness (approximately 5 to 20 ft) of transitionally weathered rock typically exists between the saprolite and competent bedrock. 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.

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. 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.

Pursuant to 40 CFR § 257.91, a multi-unit groundwater monitoring system was installed within the uppermost aquifer at the Site (**Figure 2**). The multi-unit monitoring system is designed to monitor groundwater passing the

waste boundary of the CCR units within the uppermost aquifer. Wells are located to monitor upgradient and downgradient conditions based on groundwater flow direction.

## **1.2 Summary of SSLs for Corrective Measures**

The current Assessment of Corrective Measures (ACM; Atlantic Coast Consulting [ACC] 2019) was placed in the Site's operating record and posted to the Site's CCR Rule Compliance website. To support the ACM and development of the remedy selection, this Semiannual Progress Report summarizes the constituents determined to be present at statistically significant levels (SSLs). SSLs were determined for the following locations and constituents (**Figure 2**) in this semiannual reporting period:

- YGWC-38 (beryllium and selenium) at the R6 CCR Landfill. Results from recent sampling and analysis have shown that beryllium concentrations have decreased and no longer exceed the GWPS at YGWC-38, while the statistical analysis of the historical dataset continues to identify an SSL.
- PZ-37 (selenium) at the R6 CCR Landfill.

An iso-concentration map for selenium is provided on **Figure 3.** Stratigraphic cross-sections with current water level data are depicted in **Figures 4** through **6**. Recent delineation well data are provided in **Table 1** and analytical lab reports are provided in **Attachment 1**. The beryllium SSL at well YGWC-38 is horizontally delineated by downgradient wells PZ-37 and YGWC-23S. Beryllium SSL at well YGWC-38 is vertically delineated by well YAMW-5. Selenium SSL at well YGWC-38 is horizontally delineated by downgradient wells YGWC-38 is horizontally delineated by Well YAMW-5. Selenium SSL at well YGWC-38 is horizontally delineated by downgradient wells YGWC-23S and YGWC-36A, PZ-35 and YAMW-1 to below the GWPS. Selenium SSLs at YGWC-38 was vertically delineated by YAMW-5; however, selenium concentrations in YAMW-5 increased and currently exceed the GWPS of 0.05 mg/L. Downgradient of YGWC-38 and YAMW-5, selenium concentrations are vertically delineated by the newly installed PZ-37D (see Section 4).

There are several historical SSLs that are no longer present at the Site:

- Monitoring well YGWC-41 historically exhibited an SSL for selenium. Concentrations of selenium have decreased to less than the GWPS and the statistical analysis of the historical data set no longer indicates an SSL. YGWC-41 will continue to be listed in the remedy selection and design progress reports and considered in the assessment of corrective measures until such time that the upper confidence interval (EPA Unified Guidance, 2009) of the confidence interval is shown to be below the GWPS for three years pursuant to 257.98(c)(2).
- Historically, YGWC-33S in the ash pond area yielded SSLs for beryllium and cobalt. This monitoring location was abandoned in June 2020 because it was not suitable for detecting groundwater flow away from the combined ash ponds and R6 CCR Landfill waste boundary. Prior to its abandonment, beryllium and cobalt were shown to be delineated by downgradient wells within the permitted unit boundary by YGWC-36A, YAMW-1 and PZ-35. The delineation wells continue to be monitored as part of the combined network at the ash ponds and R6 CCR Landfill. Cobalt will continue listed in the remedy selection and design progress reports and considered in the assessment of corrective measures through August 2023, which will constitute three years following the last SSL for cobalt in August 2020.

In addition to the assessment monitoring program at the Site, a human health and ecological risk evaluation was completed (and reported in Wood 2020) to evaluate constituents present at SSLs in groundwater (i.e., beryllium and selenium) at the ash ponds and the R6 CCR Landfill. The evaluation provides one of many lines of evidence

that will be evaluated and factored into the remedy selection process, which will be completed in accordance with § 257.97. Based on this risk evaluation, concentrations of beryllium and selenium detected in groundwater at the Site between August 2016 and March 2020 are not expected to pose a risk to human health or the environment (Wood 2020). Data collected since March 2020 are consistent with data used in the risk evaluation; therefore, the conclusions provided in the 2020 Risk Evaluation Report are supported by current conditions.

## 2 Screening of Corrective Measures

Pursuant to 40 CFR § 257.97, Georgia Power is evaluating the potential corrective measures presented in the ACM to identify an appropriate remedy or combination of remedies for the Site as soon as feasible.

The ACM presented the following corrective measures as potentially feasible for use at the Site:

- 1. Geochemical Manipulation (In-Situ Injection);
- 2. Hydraulic Containment (Pump and Treat);
- 3. In Situ Stabilization/Solidification (ISS);
- 4. Monitored Natural Attenuation (MNA);
- 5. Subsurface Vertical Barrier Walls;
- 6. Permeable Reactive Barrier;
- 7. Phytoremediation.

This evaluation was first completed and reported in the August Semiannual Progress Report (Arcadis 2020). Building on the initial evaluation of corrective measures presented in the ACM; incorporation of site-specific hydrogeological and geochemical information; and consideration of ease of implementation, performance, and reliability of each, potential corrective measures were screened to further refine the list to be retained for additional evaluation. The list of retained potential corrective measures is presented in this Semiannual Progress Report as **Table 2** and includes:

- 1. MNA;
- 2. Geochemical Manipulation (In-Situ Injection);
- 3. Hydraulic Containment (Pump and Treat);
- 4. Phytoremediation (not currently applicable but retained if needed for future compliance well SSLs downgradient of AP-A/B/B'/3 or R6 CCR Landfill).

Georgia Power proactively initiated adaptive site management as outlined in the ACM Report (ACC 2019) to support the groundwater remedy selection process and address potential changes in site conditions as appropriate during the ash pond closure. The adaptive site management approach will take existing site conditions, including natural attenuation mechanisms into account. Characterization activities to evaluate attenuation mechanisms at the Site may include collection of data necessary to progressively evaluate the existing and long-term effectiveness of these processes in the aquifer and reduce uncertainty for decision making at each screening step as listed in the USEPA guidelines for MNA (USEPA 2007, 2015). In 2007, the USEPA issued MNA technical guidance specific to inorganic contaminants (USEPA, 2007) that contained four "tiers." The 2015 MNA guidance retains these four "tiers," but describes them as "phases" as described below (USEPA,

2015). This 2015 MNA document for inorganic contaminants expands on and is designed to be a companion to the 1999 MNA guidance.

- Phase I: Demonstration that the groundwater plume is not expanding.
- Phase II: Determination that the mechanism and rate of the attenuation process are sufficient.
- Phase III: Determination that the *capacity* of the aquifer is sufficient to attenuate the mass of contaminant within the plume and the *stability* of the immobilized contaminant is sufficient to resist re-mobilization.
- Phase IV: Design of a *performance monitoring program* based on an understanding of the mechanism of the attenuation process, and establishment of contingency remedies tailored to site-specific characteristics.

Georgia power will address Phase IV as appropriate during the development of the future corrective action monitoring plan, after the final remedy selection report.

## 3 Summary of Work Completed and Data Analysis

### 3.1 Closure Activities

Source control is being implemented as part of the closure process and is not specifically intended as a corrective measure. However, there is a strong potential for source control to limit future impact and improve groundwater quality. The following source control measures are underway or complete for the ash ponds and the R6 CCR Landfill:

- R6 CCR landfill capping began in October 2015 and was completed during the fourth quarter of 2016. Final closure certification has not been submitted for the R6 CCR landfill due to final flume tie-in to the surface water drainage ditch currently being constructed along the northern edge of the R6 CCR landfill.
- Consolidation of ash from the ash ponds onto the Ash Management Area (AMA) began in 2014 and is ongoing.

Closure activities at Plant Yates, including management and reduction of ponded water, excavation and consolidation of CCR, and capping, can reduce CCR impacts to groundwater. The removal of ponded water at AP-B and excavation and consolidation of the material at AP-A, AP-B, and other areas reduces potential contact of groundwater with the source of CCR constituents and likely results in improved groundwater quality in the area. Capping of the R6 CCR Landfill and future capping of the consolidated ash pond materials in the AMA also minimizes the infiltration of water through CCR materials.

## 3.2 Nature and Extent Delineation

In April 2021, a deep bedrock groundwater monitoring well (PZ-37D) was installed adjacent to PZ-37 to delineate the nature and extent of selenium in the vicinity of PZ-37, YGWC-38, and YAMW-5 (**Figure 5**). The complete Well Installation Report is provided in Appendix D to the 2021 Semiannual Groundwater Monitoring and Corrective Action Report (Arcadis 2021b).

Semiannual Remedy Selection and Design Progress Report Ash Ponds 3, A, B, B' and R6 Landfill

PZ-37D (**Figure 5**) was installed at a total depth of 202.3 ft bgs at an elevation of 556.5 ft (North American Vertical Datum of 1988 [NAVD88]) using a track-mounted 150CC rotosonic drill equipped with 4-inch coring rods for continuous coring and 6-inch outer casing. Core samples were logged in the field for lithologic properties. Well construction and development information is provided in Appendix D to the 2021 Semiannual Groundwater Monitoring and Corrective Action Report (Arcadis 2021b). During advancement of the drill string, grab samples of groundwater were collected at three discrete intervals (90 to 100 ft bgs [668.8 to 658.8 ft North American Vertical Datum 1988, NAVD88], 130 to 150 ft bgs [628.8 to 608.8 ft NAVD88], and 195 to 200 ft bgs [563.8 to 558.8 ft NAVD88]). The samples were submitted for laboratory analysis for selenium and other constituents to provide a preliminary record of the vertical delineation of groundwater constituent concentrations. Prior to collection of the grab sample from 195-200 ft bgs (563.8 to 558.8 ft NAVD88), the sample interval was sealed from the upper intervals using an inflatable packer. Once installation and well development were complete, a groundwater sample was collected from the newly installed PZ-37D and analyzed for Appendix III and Appendix IV constituents.

Analytical laboratory results from the three discrete interval grab samples and a groundwater sample from the completed well are provided in Attachment 1. Concentrations of selenium in the grab samples ranged from 0.14 mg/L in the 90-100 ft bgs (668.8 to 658.8 ft NAVD88) interval to 0.18 mg/L in the 130-150 ft bgs (628.8 to 608.8 ft NAVD88) interval to below detection limits in the 195-200 ft bgs (563.8 to 558.8 ft NAVD88) interval. Selenium concentrations measured in the upper two intervals where grab samples were collected could be influenced under pumping conditions by structural influences in the bedrock such as fracture density, orientation, and angles, as well as potential casing leakage. In the completed well PZ-37D, selenium concentrations were below detection.

## 3.3 Trend Analysis

Historical groundwater analytical data are presented in Figures 7 - 9 to illustrate how groundwater conditions are changing in conjunction with closure activities. Groundwater monitoring has been performed for the ash ponds since 2016 and the R6 CCR landfill since 2017.

In the R6 CCR Landfill area, decreasing concentration trends are observed on the east side of the unit at YGWC-38 (Figure 7). At this location, concentrations of boron, sulfate, and total dissolved solids (TDS) have been decreasing through time, with concentrations of chloride and pH values remaining stable. For example, boron concentrations decreased from 22.7 milligrams per liter (mg/L) in June of 2018 to 6.4 mg/L in March 2021. Beryllium has decreased from a maximum of 0.0059 mg/L in June 2018 to 0.0029 mg/L in February and March 2021, less than the GWPS of 0.004 mg/L. Because there are no observed concentrations of beryllium exceeding the GWPS of 0.004 mg/L, a beryllium isoconcentration map was not developed. Selenium concentrations in YGWC-38 have also decreased from 0.265 mg/L in September 2017 to 0.073 and 0.076 mg/L in February 2021 and March 2021, respectively. The concentration data (Figure 7) indicate target Appendix III constituent concentrations that are indicators for CCR constituents in groundwater are decreasing near the well (YGWC-38) showing SSLs.

Similar decreasing trends are also noted spatially and vertically downgradient of well YGWC-38. Preliminary data collected from YAMW-5 suggest potential decreasing concentrations of boron, sulfate, and TDS in the deeper aquifer zone adjacent to YGWC-38. Statistical analysis of the current data set at YAMW-5 has not yielded an SSL. However, between September 2020 and March 2021, concentrations of selenium have increased from 0.026 mg/L to 0.061 mg/L, respectively, with the latter measurement exceeding the GWPS of 0.05 mg/L. As additional data become available, a continued evaluation of constituent concentration trends can be performed.

Similar to observed trends at YGWC-38, concentrations of boron, sulfate and TDS have been decreasing through time at PZ-37 (**Figure 8**). Selenium concentrations in PZ-37 varied between 0.168 mg/L in January 2018 and approximately 0.33 mg/L in September 2018 and 2020, before decreasing slightly to 0.27 mg/L in March 2021. To vertically delineate selenium in the vicinity of PZ-37, a deep bedrock well was installed in April 2021. The installation of the new well (PZ-37D) is described in **Section 3.2** above.

On the west side of the R6 CCR Landfill, boron, sulfate, and TDS concentrations have declined at YGWC-41 (**Figure 9**). For example, boron decreased from a maximum of 15.2 mg/L in February 2018 to 4.0 mg/L in March 2020. Selenium concentrations are lower at YWGC-41 on the west side of the unit than at YWGC-38 and PZ-37 on the east side of the unit. Selenium concentrations at YGWC-41 have decreased from a maximum of 0.071 mg/L in February 2018 to approximately 0.035 mg/L in February (0.033 mg/L) and March (0.037 mg/L) 2021. During the reporting period, concentrations of selenium were less than the GWPS of 0.05 mg/L and did not exhibit an SSL.

In general, groundwater monitoring data show declining trends in concentrations of CCR constituents, such as boron, sulfate, beryllium, and selenium, most likely due to pond closure activities progressing at Plant Yates since 2014.

## 4 Evaluation of Corrective Measures

Closure activities (completed and ongoing) for the ash ponds and the R6 CCR Landfill support source control measures that will reduce the potential migration of CCR constituents to groundwater. With few exceptions, constituent concentrations have decreased over time as the shallow aquifer responds to the closure activities completed. Georgia Power proactively initiated an adaptive site management approach, as outlined in the ACM Report (ACC 2019), to support the groundwater remedy selection process and address potential changes in site conditions as appropriate during the ash pond closure. The adaptive site management approach will take existing site conditions, including natural attenuation mechanisms, into account and may be adjusted over the life cycle of the Site as new information and technologies become available. At this time, the data collected support the following retained list of potential corrective measures, as summarized in **Table 2**:

Geochemical Manipulation (In-Situ Injection) In Situ Injection technology is the application of reagents in the subsurface to influence the solubility, mobility, and/or toxicity of inorganic constituents. The hydrogeology of the Site and available in situ options for immobilization of selenium and beryllium supports the implementation of in situ injections. Based on the evaluation to date, the in situ injection technology is retained.

**Hydraulic Containment (Pump and Treat)** Hydraulic control/containment (P&T) uses groundwater extraction to establish a hydraulic gradient to capture and control the migration of groundwater that is impacted by a constituent of concern. Groundwater extraction and treatment is feasible at the Site and <u>hydraulic containment is retained for further consideration.</u>

**MNA** MNA is defined as the reliance on natural attenuation processes (within the context of a carefully controlled and monitored site cleanup approach) to achieve site-specific remediation objectives within a timeframe that is reasonable compared to that offered by other more active methods (USEPA 2007). MNA is a remedial solution that takes advantage of natural attenuation processes to reduce constituents in soil and groundwater. Geochemical characterization, including selenium speciation, solids mineralogical characterization, a bench top sorption study conducted in 2020 (Arcadis 2021a), and trend analysis conducted through the First Half of 2021 continue to support the retention of this technology for consideration in remedy selection.

**Phytoremediation** Phytoremediation is the direct use of various living plants as a means of hydraulic control or containment, immobilization of constituents, and/or uptake/degradation of constituents found in shallow groundwater or, if engineered, using TreeWells® in intermediate depth groundwater. Phytoremediation would be difficult to implement at the depths of the current SSLs at the R6 Landfill. However, phytoremediation could be implementable downgradient of the R6 Landfill and is retained for further evaluation of beryllium and selenium if downgradient wells yield SSLs in the future.

## 5 Planned Activities and Schedule

In support of remedy selection from among the retained corrective measures, the following activities (organized by general site area) are recommended for the remainder of 2021:

- Continue routine groundwater sampling for Appendix III and Appendix IV constituent concentrations at delineation locations to analyze and evaluate trends for effectiveness of source control and plume stability to support the MNA evaluation. Multiple datasets will be needed to assess temporal variations in conditions to confirm current stable and decreasing trends.
- Continue evaluation groundwater and aquifer solids data using the phased framework for the evaluation of MNA as a viable remedy.
- Develop and calibrate a solute transport model for selenium and sulfate as a conservative tracer, using the United States Geological Survey (USGS) Modular Three-Dimensional Finite-Difference Unstructured Grid Transport (MODFLOW-USGT) simulation code. The solute transport model will be used to evaluate remedial options, using metrics such as time to reach GWPS.
- An additional exploratory deep bedrock well in the vicinity of PZ-37D is planned to gather supporting bedrock hydrostratigraphic information through borehole geophysics, packer testing and sampling of intervals with significant water producing fractures. Understanding the flow conditions in this area will support the development of conceptual designs for the evaluation of active remedy options, such as pump and treat, as well as the fate and transport for selenium for options such as MNA.

Georgia Power will include future semiannual ACM progress reports in routine groundwater monitoring reports to document groundwater conditions, results associated with additional data gathering, and the progress of selecting and designing the remedy in accordance with 40 CFR § 257.97(a). Record keeping, notifications, and publicly accessible internet site requirements for the semiannual ACM progress reports will be provided in accordance with 40 CFR § 257.105(h)(12), 257.106(h)(9), and 257.107(h)(9), respectively. Preparation of a remedy selection report is anticipated in 2022.

## 6 References

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## **Tables**

Table 1. 2021 Delineation Well Data

#### Semiannual Remedy Selection and Design Progress Report

Plant Yates AP-3, A, B, B' and R6 CCR Landfill

Georgia Power Company

Analyte		Units	PZ-35	PZ-37	PZ-37D	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YAMW-5	YGWC-38	YGWC-41
			PZ-35 03042021	PZ-37 03042021	PZ-37D (051321)	YAMW-1 03032021	YAMW-2 03032021	YAMW-4 03032021	YAMW-5 (020921)	YAMW-5 03042021	YGWC-38 03042021	YGWC-41 03042021
			3/4/2021	3/4/2021	5/13/2021	3/3/2021	3/3/2021	3/3/2021	2/9/2021	3/4/2021	3/4/2021	3/4/2021
	Boron	mg/l	0.012 J	12.4	1.3	0.039 J	0.032 J	0.81	NA	6.1	6.4	4.0
	Calcium	mg/l	4.4	118	68.3	6.9	1.5	20.6	NA	53.8	87.0	16.4
Appondix III	Chloride	mg/l	6.7	3.9	4.0	6.1	2.5	22.9	NA	3.7	3.9	3.4
Appendix III	Fluoride	mg/l	< 0.050	< 0.050	0.12	< 0.050	< 0.050	0.14	< 0.050	< 0.050	< 0.050	< 0.050
	Sulfate	mg/l	8.8	485	178	16.9	7.9	91.7	NA	340	356	117
	Total Dissolved Solids	mg/l	59.0	856	381	121	40.0	245	NA	604	600	224
	Antimony	mg/l	0.00039 J	< 0.00028	0.00052 J	0.025	< 0.00028	0.00062 J	< 0.00028	< 0.00028	< 0.00028	< 0.00028
	Arsenic	mg/l	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.00079 J	0.00095 J	< 0.00078	< 0.00078	< 0.00078
	Barium	mg/l	0.033	0.036	0.015	0.035	0.0082	0.021	0.042	0.039	0.016	0.017
	Beryllium	mg/l	0.00025 J	0.00017 J	< 0.000046	< 0.000046	< 0.000046	< 0.000046	0.00015 J	0.00013 J	0.0029	0.0015
	Cadmium	mg/l	< 0.00012	0.00028 J	< 0.00012	< 0.00012	< 0.00012	< 0.00012	0.00025 J	0.00018 J	0.0013	< 0.00012
	Chromium	mg/l	0.00070 J	< 0.00055	< 0.00055	0.00076 J	0.0012 J	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055
Appondix IV	Cobalt	mg/l	< 0.00038	0.0030 J	< 0.00038	0.018	0.00082 J	0.0010 J	< 0.00038	< 0.00038	< 0.00038	< 0.00038
Appendix IV	Lead	mg/l	0.00015 J	< 0.000036	0.000049 J	< 0.000036	0.000080 J	0.000096 J	0.000073 J	0.000041 J	< 0.000036	< 0.000036
	Lithium	mg/l	0.0015 J	0.028 J	0.011 J	0.022 J	< 0.00081	0.020 J	0.016 J	0.016 J	0.0067 J	0.0021 J
	Mercury	mg/l	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078
	Molybdenum	mg/l	< 0.00069	0.0024 J	0.0042 J	0.0037 J	< 0.00069	0.0049 J	< 0.00069	< 0.00069	< 0.00069	< 0.00069
	Combined Radium - 226/228	pCi/l	< 0.397 U	1.49	5.36	< 0.377 U	< 0.563 U	1.07	< 1.07 U	1.46	< 0.816 U	1.23
	Selenium	mg/l	< 0.0016	0.27	< 0.0016	< 0.0016	< 0.0016	< 0.0016	0.060	0.061	0.076	0.037
	Thallium	mg/l	NA	NA	< 0.00014	NA	NA	NA	< 0.00014	NA	NA	NA
Field	pH	S.U.	5.64	5.51	7.79	6.51	5.67	6.81	5.37	5.32	5.01	4.68

#### Notes:

1. < indicates the analyte was not detected above the laboratory method detection limit (MDL).

2. J values indicate the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value.

Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.

3. Detections are in **bold** 

mg/l - milligrams per liter

- pCi/l picoCuries per liter
- S.U. Standard Units

NA - Not Analyzed

U - the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not



# Table 2.Remedy Evaluation SummaryPlant Yates AP-3, A, B, B', and R6 CCR LandfillGeorgia Power Company

Corrective Measure	Geochemical Manipulation (In Situ Injection)	Hydraulic Containment	In-Situ Stabilization/Solidification (ISS)	Monitored Natural Attenuation	Subsurface Vertical Barrier Walls	Permeable Reactive Barrier	Phytoremediation
Retained/Screened Out	Retained	Retained	Screened Out	Retained	Screened Out	Screened Out	Retained if needed for future compliance well SSLs downgradient of AP-A/B/B'/3 or R6 CCR Landfill
Description	Injection of a chemical or organic substrate to alter geochemical conditions to those more favorable for stabilization of beryllium and/or selenium.	Combines a groundwater extraction system with a surface treatment system to remove target analytes from the subsurface and/or to control/prevent constituent migration.	In-situ solidification is the process by which constituent mobility in a solid matrix is decreased through physical and/or chemical means. Grout or other chemical additives are mixed with aquifer materials to reduce permeability. ISS could be applied to the aquifer matrix in groundwater flow zones but is less applicable than other technologies evaluated.	A remedial solution that takes advantage of natural attenuation processes to attenuate constituents in soil and groundwater. This option can meet the GWPS given sufficient time and favorable conditions.	Used to physically control the migration of impacted groundwater flow through isolation or redirection, typically around or upgradient of a source area.	A permeable reactive barrier is a zone of reactive material that extends below the water table to intercept and treat groundwater.	<ul> <li>Phytoremediation is the direct use of various living plants as a means of hydraulic control or containment, immobilization of constituents, and/or uptake/degradation of constituents in shallow groundwater or, if engineered, using TreeWells® for intermediate depth groundwater.</li> <li>This technology can meet the GWPS for low level metal concentrations present in shallow groundwater.</li> </ul>
40 CFR 257.96(c)(1)							
Ease of Implementation	This process is not substantially limited by implementation. The hydrogeology of the site is amenable to reagent injection and distribution. Bench testing and pilot testing can be used to optimize implementation.	Relative ease in implementation compared to other technologies.	ISS technology would be difficult to impractical to implement at the scale of the AMA and R6 landfill. The implementation would also be complicated on the R6 landfill where the cap is in place.	This process is not limited by implementation.	Installing into competent bedrock may be challenging due to depth, the presence of fractures, and the groundwater flow directions at the site.	Installing into competent bedrock may be challenging due to depth and presence of fractures. Implementation is also challenging due to the groundwater flow directions at the site.	The depth of the treatment zone is limited to depth of root zone when relying on plants alone. When using TreeWell® system, deeper target depths (i.e., 30 feet or more) are achievable. Site ground water elevations are typically 10 feet to 30 feet below ground surface.
Performance	The geochemical manipulation processes identified have the potential to alter conditions and immobilize beryllium and selenium rapidly,but require ongoing monitoring to ensure that conditions remain favorable.	Hydraulic containment is an effective corrective measure for remediating dissolved constituents provided regular maintenance is performed throughout the operational life. Not typically immediately effective for trace level metals. Rebounding can occur as water levels return to normal once the pumping system is turned off post-remediation. Generally, requires disposal of treated water and sludges.	Performance would need to be assessed through bench or pilot testing. Likely would need to be used in conjunction with an additional technology for groundwater. Technology anticipated to be less effective for groundwater than other options evaluated.	This process provides ongoing effectiveness and is well documented as an effective measure for remediating groundwater	Performance may be limited due to site geology.	The effectiveness of this technology may be limited by underflow and reactive lifespan and is only effective for specific constituents. Marginally effective over long periods of time without replacement of PRB material.	May be directly effective by accumulation or uptake of some metals or hydraulic control; however, phytoaccumulation is directly related to the plant species. Constituents may need to be addressed by a method that does not involve direct uptake of impacted groundwater (i.e., traditional phytoremediation). An alternative method, such as a TreeWell® system, may need to be considered.
Potential Impacts	Low potential for impacts: health and safety concerns during injections associated with equipment, injection pressure management and reagent handling, minimal risk of cross media contamination, exposure potential limited to groundwater sampling.	Low potential for impacts: health and safety concerns during construction and O&M, injection pressure management and reagent handling, minimal risk of cross media contamination, exposure potential limited to groundwater sampling.	Low potential for impacts: No health and safety concerns during construction, minimal risk of cross media contamination, exposure potential limited to groundwater sampling.	Low potential for impacts: No health and safety concerns during construction, minimal risk of cross media contamination, exposure potential limited to groundwater sampling.	Low potential for impacts: health and safety during construction, minimal risk of cross media contamination, exposure post-construction limited to groundwater sampling.	Low potential for impacts: health and safety during construction, minimal risk of cross media contamination, exposure post- construction limited to groundwater sampling.	Low potential for impacts: health and safety during construction, minimal risk of cross media contamination, exposure post-construction limited to groundwater sampling.

## ARCADIS

# Table 2.Remedy Evaluation SummaryPlant Yates AP-3, A, B, B', and R6 CCR LandfillGeorgia Power Company

Corrective Measure	Geochemical Manipulation (In Situ Injection)	Hydraulic Containment	In-Situ Stabilization/Solidification (ISS)	Monitored Natural Attenuation	Subsurface Vertical Barrier Walls	Permeable Reactive Barrier	Phytoremediation
Retained/Screened Out	Retained	Retained	Screened Out	Retained	Screened Out	Screened Out	Retained if needed for future compliance well SSLs downgradient of AP-A/B/B'/3 or R6 CCR Landfill
Reliability	This process will likely have overall reliability in achieving GWPS goals when adequate volume and subsurface distribution are achieved. Ongoing monitoring is necessary to ensure that favorable conditions are maintained once achieved.	This technology provides moderate to high reliability based on extraction well up-time and maintenance for the treatment system.	Reliable immobilization over time with proper implementation.	This process will likely have overall reliability in achieving GWPS goals where impacted area remains internal to the site and is adequately monitored.	The reliability of this technology is limited at depth and by the ability to manage changes in the flow direction and hydraulic head of groundwater.	This technology may not provide reliability in the site-specific lithology due to difficulty in interception groundwater flow though fractured bedrock.	The presence of impacted groundwater below typical root zones would need to be addressed for phytoremediation to be a reliable technology for hydraulic control. Reliable plant species for selenium uptake are more established than for beryllium.
40 CFR 257.96(c)(2)							
Begin/Complete	Can begin immediately upon completion of pilot testing and/or bench-scale testing, which may take up to 24 months. Long-term monitoring and reporting likely required.	Time needed to model and design may take up to 24 months; variable time for construction depending on scale, generally can be accomplished in 6 months.	Time needed to model and design may take up to 24 months; variable time for construction depending on scale, generally can be accomplished relatively quickly between 6 and 12 months.	Can begin immediately. Long-term monitoring and reporting likely required.	Time needed to model and design may take up to 24 months. Variable time for construction depending on scale, generally can be accomplished relatively quickly between 6 and 12 months.	Time needed to model and design may take up to 24 months; variable time for construction depending on scale, generally can be accomplished in 6 to 12 months.	Time needed to model and design may take up to 6 months. Pilot testing may be required, which could take up to 3 years. Depending on the number of required units, the installation effort is expected to last several weeks. Full hydraulic capture/control is expected approximately 3 years after planting.
40 CFR 257.96(c)(3)							
Institutional Requirements	Deed restrictions may be necessary until in-situ treatment has achieved GWPS. A new UIC permit (for in-situ injections) would be required to implement this corrective measure. No other institutional requirements are expected at this time.	Depending on the effluent management strategy, modifications to the existing NPDES permit may be required, or obtaining a new underground injection control (UIC) permit may be needed if groundwater reinjection is chosen. In addition, deed restrictions may be required if groundwater conditions are above regulatory standards for unrestricted use.	Deed restrictions may be necessary for groundwater areas downgradient of the stabilized and/or solidified areas. No other institutional requirements are expected at this time.	MNA may require the implementation of institutional controls, such as deed restrictions, to preclude potential exposure to groundwater within the footprint of impacted groundwater until GWPS are achieved.	Deed restrictions may be necessary for groundwater areas downgradient of the barrier wall until remedial goals are met. No other institutional requirements are expected at this time.	Deed restrictions may be necessary for groundwater areas upgradient of the PRB (if not installed along the waste boundary). No other institutional requirements are expected at this time.	Deed restrictions may be necessary for groundwater areas upgradient of the phytoremediation area or TreeWell® system. No other institutional requirements are expected at this time.



#### Table 2. Remedy Evaluation Summary Plant Yates AP-3, A, B, B', and R6 CCR Landfill Georgia Power Company

Corrective Measure	Geochemical Manipulation (In Situ Injection) Hydraulic Containment		In-Situ Stabilization/Solidification (ISS)	Monitored Natural Attenuation	Subsurface Vertical Barrier Walls	Permeable Reactive Barrier	Phytoremediation
Retained/Screened Out	Retained	Retained	Screened Out	Retained	Screened Out	Screened Out	Retained if needed for future compliance well SSLs downgradient of AP-A/B/B'/3 or R6 CCR Landfill
Other Env or Public Health Requirements	None expected at this point. Based on downgradient sampling results near adjacent waterbodies, there currently appear to be no potential receptors downgradient of the units.	Based on downgradient sampling results near adjacent waterbodies, there currently are no complete receptor pathways downgradient of the units. Aboveground treatment components may need to be present for an extended period, generating residuals requiring management and disposal.	None expected at this point. Based on downgradient sampling results near adjacent waterbodies, there currently appear to be no potential receptors downgradient of the unit. Following implementation of ISS, this source control remedy is passive, does not create carbon emissions, and preserves groundwater resources.	Little to no physical disruption to remediation areas and no adverse construction-related impacts are expected on the surrounding community. Based on downgradient sampling results near adjacent waterbodies, there currently are no complete receptor pathways downgradient of the units.	Based on downgradient sampling results near adjacent waterbodies, there currently appear to be no potential receptors downgradient of the unit. Due to the potential need for groundwater extraction associated with barrier walls, aboveground treatment components may need to be present for an extended period, creating carbon emissions and generating residuals requiring management and disposal.	None expected at this point. Based on downgradient sampling results near adjacent waterbodies, there currently are no complete receptor pathways downgradient of the unit. Following installation, the remedy is passive.	None expected at this point. Based on downgradient sampling results near adjacent waterbodies, there currently are no complete receptor pathways downgradient of the units. Innovative and green technology may be positively received by various stakeholders. Following installation, the remedy is passive and does not require external energy.
Relative Costs and Screening							
Relative Costs	Moderate costs are associated with this technology.	High costs are associated with this technology (O&M and groundwater disposal).	High costs are associated with this technology <del>.</del>	Relatively lower capital costs are associated with this technology.	High capital costs are associated with this technology.	High capital costs are associated with this technology.	Relatively lower costs are associated with this technology. May require periodic harvesting and disposal of plant species.
Retaining Technology for Further Evaluation?	Yes	Yes	No. ISS technology would be difficult to impractical to implement at the scale of the AMA and R6 landfill.	Yes	No. Site-specific hydrogeology limits implementability, performance, and effectiveness.	No. Site-specific hydrogeology limits implementability, performance, and effectiveness.	Yes

Notes: AMA = Ash Management Area CCR = Coal Combustion Rule

CFR = Code of Federal Regulations

GWPS = Groundwater Protection Standard

MNA = monitored natural attenuation

NPDES = National Pollutant Discharge Elimination System O&M = operation and maintenance

PRB = permeable reactive barrier

SSL = statistically significant level UIC = underground injection control







84°54'40"W 84°54'30"W 84°53'50"W 84°53'40"W 84°53'10"W 84°53'0"W 84°52'50"W 84°55'20"W 84°55'10"W 84°55'0"W 84°54'50"W 84°54'20"W 84°54'10"W 84°54'0"W 84°53'30"W 84°53'20"W

84°55'30"W

84°55'20"W

84°55'10"W

84°55'0"W

84°54'50"W

84°54'40"W

84°54'30"W

84°54'20"W

84°54'10"W

84°54'0"W

84°53'50"W

84°53'40"W

84°53'30"W

84°53'20"W

84°53'10"W

84°53'0"W

84°52'50"W

84°52'30"W 84°52'20"W





- SAPROLITE NETWORK MONITORING  $\bullet$ WELL LOCATION
- TRANSITION NETWORK MONITORING  $\bullet$ WELL LOCATION
- BEDROCK NETWORK MONITORING • WELL LOCATION
- SAPROLITE NON-NETWORK WELL/PIEZOMETER ۲
- TRANSITION NON-NETWORK  $\bigcirc$ WELL/PIEZOMETER
- BEDROCK NON-NETWORK WELL/PIEZOMETER ۲
- PERMITTED UNIT BOUNDARY

#### NOTE:

1. PZ-37D WAS INSTALLED AS A VERTICAL DELINEATION WELL FOR PZ-37 IN APRIL 2021.

2. AERIAL IMAGE SOURCES: NOVEMBER 11, 2020 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.



COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET



#### WELL LOCATION MAP



FIGURE 2

84°52'40"W







#### LEGEND:

- EXISTING GRADE
- O PEIZOMETER
- $\pmb{\oplus}$  test boring
- ₩ ABANDONED WELL
- A CROSS-SECTION
  - BOUNDARY PER D&O PLAN
  - ----- EXTENT OF ASH MANAGEMENT AREA FINAL COVER





#### LEGEND:

- ☑ WATER ELEVATION (MARCH 2021)
- WELL SCREEN

#### SAPROLITE:

SILTY SAND - LIGHT BROWN TO TAN FINE-MEDIUM GRAINED SAND WITH SILT. LOOSE CLAYEY SAND - MOTTLED TO BROWN, FINE TO MEDIUM GRAINED SAND WITH CLAY. LOOSE.

#### TRANSITION ZONE:

HIGHLY WEATHERED AND HIGHLY FRACTURED BIOTITE GNEISS, GRANITIC GNEISS, AND MICA SCHIST. FINE TO COARSE SAND AND GRAVEL PRESENT

#### BEDROCK:

BEDROCK (UNDIFFERENTIATED) – UNDIFFERENTIATED BIOTITE GNEISS, GRANITIC GNEISS, AND MICA SCHIST. MODERATELY TO INTENSELY FOLIATED

BIOTITE GNEISS - BIOTITE AND MUSCOVITE GNEISS. MODERATELY TO INTENSELY FOLIATED

#### NOTES:

- 1. WATER ELEVATIONS NOT COLLECTED FOR PZ-37D IN MARCH
- 2021. 2. CROSS SECTION ELEVATIONS ARE MEASURED IN FEET ABOVE MEAN SEA LEVEL (AMSL).

400'

800'







#### LEGEND:

- ☑ WATER ELEVATION (MARCH 2021)
- WELL SCREEN



**ARCADIS** 

6









**Analytical Lab Reports** 

2021 Semiannual Remedy Selection and Design Progress Report Plant Yates AP-3, A, B, B'/R6 CCR Landfill



Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

March 28, 2021

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

RE: Project: YATES RADS Pace Project No.: 92525905

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on March 05, 2021. 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,

Kein Hung

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR Lauren Coker, Georgia Pwer Geoffrey Gay, ARCADIS - Atlanta Kristen Jurinko Kelley Sharpe, ARCADIS - Atlanta Alex Simpson, Arcadis Samantha Thomas Maribel Vital



#### **REPORT OF LABORATORY ANALYSIS**


Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

### CERTIFICATIONS

Project: YATES RADS Pace Project No.: 92525905

#### 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 #: 9526 Washington Certification #: C868 West Virginia DEP Certification #: 143 West Virginia DHHR Certification #: 9964C Wisconsin Approve List for Rad Wyoming Certification #: 8TMS-L



Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

## SAMPLE SUMMARY

Project: YATES RADS Pace Project No.: 92525905

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92525905001	YAMW-2	Water	03/03/21 14:10	03/05/21 09:20
92525905002	YAMW-4	Water	03/03/21 13:05	03/05/21 09:20
92525905003	YAMW-5	Water	03/04/21 14:15	03/05/21 09:20
92525905004	YAMW-1	Water	03/03/21 15:15	03/05/21 09:20
92525905005	PZ-35	Water	03/04/21 15:30	03/05/21 09:20
92525905006	EB1	Water	03/04/21 16:00	03/05/21 09:20
92525905007	PZ-37	Water	03/04/21 11:55	03/05/21 09:20



## SAMPLE ANALYTE COUNT

Project:YATES RADSPace Project No.:92525905

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525905001	YAMW-2	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525905002	YAMW-4	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525905003	YAMW-5	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525905004	YAMW-1	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525905005	PZ-35	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525905006	EB1	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525905007	PZ-37	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg



# SUMMARY OF DETECTION

Project: YATES RADS

Pace Project No.: 92525905

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525905001	YAMW-2					
EPA 9315	Radium-226	0.101 ± 0.102 (0.188)	pCi/L		03/25/21 08:50	
EPA 9320	Radium-228	0.462 ± 0.393 (0.795) C:80% T-79%	pCi/L		03/25/21 12:21	
Total Radium Calculation	Total Radium	0.563 ± 0.495 (0.983)	pCi/L		03/26/21 14:34	
92525905002	YAMW-4					
EPA 9315	Radium-226	0.252 ± 0.159 (0.242) C:72% TNA	pCi/L		03/25/21 08:50	
EPA 9320	Radium-228	0.822 ± 0.449 (0.823) C:80% T:80%	pCi/L		03/25/21 12:21	
Total Radium Calculation	Total Radium	1.07 ± 0.608 (1.07)	pCi/L		03/26/21 14:34	
92525905003	YAMW-5					
EPA 9315	Radium-226	0.479 ± 0.208 (0.275) C:84% T:NA	pCi/L		03/25/21 08:50	
EPA 9320	Radium-228	0.979 ± 0.406 (0.656) C:81% T:89%	pCi/L		03/25/21 12:21	
Total Radium Calculation	Total Radium	1.46 ± 0.614 (0.931)	pCi/L		03/26/21 14:34	
92525905004	YAMW-1					
EPA 9315	Radium-226	0.131 ± 0.146 (0.301) C:79% T:NA	pCi/L		03/26/21 08:05	
EPA 9320	Radium-228	0.246 ± 0.446 (0.975) C:81% T:71%	pCi/L		03/23/21 13:46	
Total Radium Calculation	Total Radium	0.377 ± 0.592 (1.28)	pCi/L		03/26/21 14:34	



# SUMMARY OF DETECTION

Project: YATES RADS

Pace Project No.: 92525905

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525905005	PZ-35					
EPA 9315	Radium-226	0.131 ± 0.116 (0.213) C:96% T:NA	pCi/L		03/26/21 08:05	
EPA 9320	Radium-228	0.266 ± 0.375 (0.806) C:85% T:83%	pCi/L		03/23/21 13:46	
Total Radium Calculation	Total Radium	0.397 ± 0.491 (1.02)	pCi/L		03/26/21 14:34	
92525905006	EB1					
EPA 9315	Radium-226	0.0452 ± 0.0923 (0.215) C:83% T.NA	pCi/L		03/26/21 08:05	
EPA 9320	Radium-228	0.393 ± 0.346 (0.695) C:82% T:77%	pCi/L		03/23/21 13:46	
Total Radium Calculation	Total Radium	0.438 ± 0.438 (0.910)	pCi/L		03/26/21 14:34	
92525905007	PZ-37					
EPA 9315	Radium-226	0.868 ± 0.271 (0.307) C:79% T:NA	pCi/L		03/26/21 08:10	
EPA 9320	Radium-228	0.626 ± 0.363 (0.662) C:78% T:92%	pCi/L		03/23/21 13:47	
Total Radium Calculation	Total Radium	1.49 ± 0.634 (0.969)	pCi/L		03/26/21 14:34	



Project: YATES RADS

Pace Project No.: 92525905

Sample: YAMW-2 PWS:	Lab ID: 925259 Site ID:	905001 Collected: 03/03/21 14:10 Sample Type:	Received:	03/05/21 09:20 N	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	ervices - Greensburg				
Radium-226	EPA 9315	0.101 ± 0.102 (0.188) C:85% T:NA	pCi/L	03/25/21 08:50	13982-63-3	
	Pace Analytical S	ervices - Greensburg				
Radium-228	EPA 9320	0.462 ± 0.393 (0.795) C:80% T:79%	pCi/L	03/25/21 12:21	15262-20-1	
	Pace Analytical S	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.563 ± 0.495 (0.983)	pCi/L	03/26/21 14:34	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525905

Sample: YAMW-4 PWS:	Lab ID: 9252 Site ID:	5905002 Collected: 03/03/21 13:05 Sample Type:	Received:	03/05/21 09:20 M	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.252 ± 0.159 (0.242) C:72% T:NA	pCi/L	03/25/21 08:50	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.822 ± 0.449 (0.823) C:80% T:80%	pCi/L	03/25/21 12:21	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	1.07 ± 0.608 (1.07)	pCi/L	03/26/21 14:34	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525905

Sample: YAMW-5	Lab ID: 925259	05003 Collected: 03/04/21 14:15	Received:	03/05/21 09:20 N	latrix: Water	
PWS:	Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	rvices - Greensburg				
Radium-226	EPA 9315	0.479 ± 0.208 (0.275) C:84% T:NA	pCi/L	03/25/21 08:50	13982-63-3	
	Pace Analytical Se	rvices - Greensburg				
Radium-228	EPA 9320	0.979 ± 0.406 (0.656) C:81% T:89%	pCi/L	03/25/21 12:21	15262-20-1	
	Pace Analytical Se	rvices - Greensburg				
Total Radium	Total Radium Calculation	1.46 ± 0.614 (0.931)	pCi/L	03/26/21 14:34	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525905

Sample: YAMW-1 PWS:	Lab ID: 925259 Site ID:	05004 Collected: 03/03/21 15:15 Sample Type:	Received:	03/05/21 09:20 N	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	rvices - Greensburg				
Radium-226	EPA 9315	0.131 ± 0.146 (0.301) C:79% T:NA	pCi/L	03/26/21 08:05	13982-63-3	
	Pace Analytical Se	rvices - Greensburg				
Radium-228	EPA 9320	0.246 ± 0.446 (0.975) C:81% T:71%	pCi/L	03/23/21 13:46	15262-20-1	
	Pace Analytical Se	rvices - Greensburg				
Total Radium	Total Radium Calculation	0.377 ± 0.592 (1.28)	pCi/L	03/26/21 14:34	7440-14-4	



Project: YATES RADS Pace Project No.: 92525905 Sample: PZ-35 Lab ID: 92525905005 Collected: 03/04/21 15:30 Received: 03/05/21 09:20 Matrix: Water PWS: Site ID: Sample Type: Act ± Unc (MDC) Carr Trac Parameters Method Units Analyzed CAS No. Qual Pace Analytical Services - Greensburg EPA 9315 0.131 ± 0.116 (0.213) Radium-226 pCi/L 03/26/21 08:05 13982-63-3 C:96% T:NA Pace Analytical Services - Greensburg EPA 9320 0.266 ± 0.375 (0.806) Radium-228 pCi/L 03/23/21 13:46 15262-20-1 C:85% T:83% Pace Analytical Services - Greensburg **Total Radium** Total Radium 0.397 ± 0.491 (1.02) pCi/L 03/26/21 14:34 7440-14-4 Calculation



Project: YATES RADS

Pace I	Project	No.:	92525905
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Sample: EB1	Lab ID: 9252590	Collected: 03/04/21 16:00	Received:	03/05/21 09:20 N	latrix: Water	
PWS:	Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Serv	vices - Greensburg				
Radium-226	EPA 9315	0.0452 ± 0.0923 (0.215) C:83% T:NA	pCi/L	03/26/21 08:05	13982-63-3	
	Pace Analytical Serv	vices - Greensburg				
Radium-228	EPA 9320	0.393 ± 0.346 (0.695) C:82% T:77%	pCi/L	03/23/21 13:46	15262-20-1	
	Pace Analytical Serv	vices - Greensburg				
Total Radium	Total Radium Calculation	0.438 ± 0.438 (0.910)	pCi/L	03/26/21 14:34	7440-14-4	



Project: YATES RADS Pace Project No.: 92525905 Sample: PZ-37 Lab ID: 92525905007 Collected: 03/04/21 11:55 Received: 03/05/21 09:20 Matrix: Water PWS: Site ID: Sample Type: Act ± Unc (MDC) Carr Trac Parameters Method Units Analyzed CAS No. Qual Pace Analytical Services - Greensburg EPA 9315 0.868 ± 0.271 (0.307) Radium-226 pCi/L 03/26/21 08:10 13982-63-3 C:79% T:NA Pace Analytical Services - Greensburg EPA 9320 0.626 ± 0.363 (0.662) Radium-228 pCi/L 03/23/21 13:47 15262-20-1 C:78% T:92% Pace Analytical Services - Greensburg **Total Radium** Total Radium 1.49 ± 0.634 (0.969) pCi/L 03/26/21 14:34 7440-14-4 Calculation



Project:	YATES RADS						
Pace Project No.:	92525905						
QC Batch:	438168		Analysis Method:	EPA 9320			
QC Batch Method:	EPA 9320		Analysis Description:	tion: 9320 Radium 228			
			Laboratory:	Pace Analytical	Services - Greensbur	g	
Associated Lab Sar	mples: 92525905	001, 9252590500	2, 92525905003				
METHOD BLANK:	2115336		Matrix: Water				
Associated Lab Sar	mples: 92525905	001, 9252590500	2, 92525905003				
Parar	meter	Act ± l	Inc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-228		0.0301 ± 0.353	(0.815) C:79% T:75%	pCi/L	03/25/21 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.



Project:	YATES RADS						
Pace Project No.:	92525905						
QC Batch:	438264		Analysis Method:	EPA 9315			
QC Batch Method:	C Batch Method: EPA 9315 Analysis Description: 9315 Total Radium						
			Laboratory:	Pace Analytical	Services - Greensbur	g	
Associated Lab Sar	mples: 92525905	001, 92525905002	2, 92525905003				
METHOD BLANK:	2115666		Matrix: Water				
Associated Lab Sar	mples: 92525905	001, 92525905002	2, 92525905003				
Parar	neter	Act ± U	nc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-226		0.0177 ± 0.140 (	(0.349) C:93% T:NA	pCi/L	03/25/21 09:33		

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 RADS					
Pace Project No.:	92525905					
QC Batch:	438266	Analysis Method:	EPA 9315			
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radiu	m		
		Laboratory:	Pace Analytical S	ervices - Greensbur	g	
Associated Lab San	nples: 92525905	5004, 92525905005, 92525905006, 9252590500 <sup>°</sup>	7			
METHOD BLANK:	2115671	Matrix: Water				
Associated Lab San	nples: 92525905	i004, 92525905005, 92525905006, 9252590500 <sup>°</sup>	7			
Paran	neter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-226		0.142 ± 0.131 (0.243) C:77% T:NA	pCi/L	03/26/21 08:05		

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 RADS									
Pace Project No.:	92525905									
QC Batch:	438169	Analysis Method:	EPA 9320							
QC Batch Method:	EPA 9320	Analysis Description:	Analysis Description: 9320 Radium 228							
		Laboratory:	Pace Analytical Se	ervices - Greensburg	g					
Associated Lab San	nples: 92525905	004, 92525905005, 92525905006, 92525905007								
METHOD BLANK:	2115337	Matrix: Water								
Associated Lab San	nples: 92525905	004, 92525905005, 92525905006, 92525905007								
Paran	neter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers					
Radium-228		0.429 ± 0.325 (0.634) C:80% T:90%	pCi/L	03/23/21 13:45						

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 RADS Pace Project No.: 92525905

#### 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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.



## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	YATES RADS
Pace Project No.:	92525905

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525905001	YAMW-2	EPA 9315	438264		
92525905002	YAMW-4	EPA 9315	438264		
92525905003	YAMW-5	EPA 9315	438264		
92525905004	YAMW-1	EPA 9315	438266		
92525905005	PZ-35	EPA 9315	438266		
92525905006	EB1	EPA 9315	438266		
92525905007	PZ-37	EPA 9315	438266		
92525905001	YAMW-2	EPA 9320	438168		
92525905002	YAMW-4	EPA 9320	438168		
92525905003	YAMW-5	EPA 9320	438168		
92525905004	YAMW-1	EPA 9320	438169		
92525905005	PZ-35	EPA 9320	438169		
92525905006	EB1	EPA 9320	438169		
92525905007	PZ-37	EPA 9320	438169		
92525905001	YAMW-2	Total Radium Calculation	440666		
92525905002	YAMW-4	Total Radium Calculation	440666		
92525905003	YAMW-5	Total Radium Calculation	440666		
92525905004	YAMW-1	Total Radium Calculation	440666		
92525905005	PZ-35	Total Radium Calculation	440666		
92525905006	EB1	Total Radium Calculation	440666		
92525905007	PZ-37	Total Radium Calculation	440666		

Contraction the contraction of the contraction		Document N Sample Condition Line	ame: n Receint(SCHR)	Document Revised: October 28, 2020	
Image: control receiving samples:     Protects result     Protects result     Atlantal:     Kernersville       Sample control receiving samples:     Chent Name:     Project #:     Work:     9252525905       Sample control receiving samples:     Chent Name:     Project #:     Work:     9252525905       Sample control receiving samples:     Date     Date     Biological Tassue Frazent:     J/S/J/J       Sample control receiving samples:     Date     Date     Date     Biological Tassue Frazent:     J/S/J/J       Sample control receiving samples:     Date     Date     Date     Date     Date       Sample control receiving samples:     Date     Date     Date     Date     Date       Sample control receiving samples:     Date     Date     Date     Date     Date       Sample control receiving samples:     Date     Date     Date     Date     Date       Sample control receiving samples:     Date     Date     Date     Date     Date       Sample control receiving samples:     Date     Date     Date     Date     Date       Sample control receiving samples:     Date     Date     Date     Date     Date       Sample control receiving samples receiving s	Pace Analytical"	Document	No.:	Issuing Authority:	
Doratory receiving samples:   sharved edition:   Cleant Name:   Project #:		F-CAR-CS-033	-Rev.07	Pace Carolinas Quality Office	
Autor and Social States Cleant Name: Project #:   Project #: Project #:   Project #:<	boratory receiving samples: Asheville Eden Greenwoo	d 🔄 Huntersville 🛄	Raleigh M	lechanicsville Atlanta Kerners	ville
urder: Def ds DUPS USPS   Commercial Preac Dother:   acidy Seal Present? Type   Dyseal Present? Type of Les:   Informercial Bubble Wrap   Bubble Bags Elvone   Orrection Factor: Dreft   Iff Gun ID: 2.30   Tremp Corrected PC(: Dreft   Iter Temp: Correction Factor:   A Regulated Soft (  N/A, water sample)   mempers of plants a quarantile access within the United States: CA, NY, or SC (check maps)?   Det samples of present?   Det samples of plants and plants access within the United States: CA, NY, or SC (check maps)?   Det samples of plants and plants access within the United States: CA, NY, or SC (check maps)?   Det samples of plants and plants access within the United States: CA, NY, or SC (check maps)?   Det samples of plants and plants access within the United States: CA, NY, or SC (check maps)?   Det samples of plants and plants access within the United States: CA, NY, or SC (check maps)?   Det samples of plants and plants access within the United States: CA, NY, or SC (check maps)?   Det samples of plants and plants access acc	Sample Condition Client Name: Upon Receipt	+ Power	Project #:	WO#:92525905	
cody Seal Present?       Type of les:       Date/Time:         iding Material:       Bubble Wrap       Bubble Bags       Diver         iding Material:       Bubble Wrap       Bubble Bags       Diver         iff RounD:       2.2       Diver       Diver         iff RounD:       2.2       Diver       Diver       Biological Tissue Freezen?         ifer Temp:       Add/Subtract ('Q):       2.1       Diver       Diver       Diver         ifer Temp:       Add/Subtract ('Q):       2.1       Diver       Diver       Diver       Diver         samples of class a forecased ('Q):       Add/Subtract ('Q):       Diver       Diver       Diver       Diver       Diver       Diver         samples of class a fore a sample of class a sample of clasa sample sample of class a sample of classa sample of	urler: Fed Ex Commercial Pace	UPS USPS Other:	Ident	92525905	
ding Material:       Bubble Wrep       Bubble Bags       Since       Other       Biological Tissue Frozen?         Press       Divertion       Divertion       Divertion       Divertion       Divertion         Press       None       Divertion       Divertion       Divertion       Divertion         Press       Divertion       Add/Subtract (C)       Divertion       Diveri	cody Seal Present? 🗌 Yes 🛛 🗐 😡	Seals Intact? Yes	<b>□</b> No	Date/Initials Person Examining Contents:	14
momenter:	king Material: Bubble Wrap	Bubble Bags None	Other	Biological Tissue Frozen?	1.00
Her Temp:       Add/Subtract ("D	rmometer: TR Gun ID: 230 Correction	Type of Ice:	Wet Blue	None	
AA Regulated Sol (( ) N/A, water sample)       Did samples originate from a foreign source (internationally, including Hawell and Puerto Rico)? [] Yes No         YesNo	ler Temp: Add/Subt	ract (°C) $\underline{\mathcal{O}}_{1}$	" Ten	np should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooli has begun	ng process
Comment/Discrepancy:           Chain of Custody Present?         Qres         No         N/A         1           Samples Arrived within Hold Time?         Qres         No         N/A         2           Short Hold Time Analysis (5/2 hr.)?         Pres         QfeC         N/A         3           Rush Tum Around Time Requested?         Pres         QfeC         N/A         4.           Sufficient Volume?         QfeE         No         N/A         4.           Sufficient Volume?         QfeE         No         N/A         4.           Sufficient Volume?         QfeE         No         N/A         5.           Correct Containers Used?         QfeE         No         N/A         6.           -ace Containers Intact?         QfeE         No         N/A         7.           Dissolved analysis: Samples Field Filtered?         Tres         No         Df/A         9.           -includes Date/Time/ID/Analysis         Matrix:         Mo         N/A         10.         Trip Blank Custody Seals Present?         Pres         No         Qfe/A         11.           Trip Blank Custody Seals Present?         Qres         No         Qfe/A         11.         Trip Blank Custody Seals Present?         Pres	>A Regulated Soil ( ) N/A, water sample)         samples originate in a quarantine zone within t         Yes         No	he United States: CA, NY, or SC	C (check maps)? Did inc	samples originate from a foreign source (internationaluding Hawaii and Puerto Rico)? Yes	ilty,
Chain of Custody Present?       DNO       N/A       1         Samples Arrived within Hold Time?       DVes       N/A       2.         Short Hold Time Analysis (472 hr.)?       DVes       DVes       DVes         Sufficient Volume?       DVes       DVes       DVes         Sufficient Volume?       DYes       DVes       DVes         Correct Containers Used?       DYes       DVes       DVes         -Pace Containers Used?       DYes       DVes       DVes         -Sample Labels Match COC?       DYes       DNo       DV/A       S.				Comments/Discrepancy:	**************************************
Samples Arrived within Hold Time?       Qiref       No       N/A       2.         Short Hold Time Analysis (c72 hr.)?       Dires       Qiref       N/A       3.         Rush Tum Around Time Requested?       Dires       Qiref       N/A       4.         Sufficient Volume?       Dires       Qiref       N/A       5.         Correct Containers Used?       Dires       Qiref       N/A       6.         -Pace Containers Used?       Diref       No       N/A       6.         -Pace Containers Used?       Diref       No       N/A       7.         Dissolved analysis: Samples Field Filtered?       Diref       No       N/A       8.         Sample Labels Match COC?       Diref       No       N/A       9.         -includes Date/Time/ID/Analysis       Matrix:       M       10.         Trip Blank Present?       Dire       No       Dir/A       11.         Trip Blank Custody Seals Present?       Dire       No       Dir/A       12.         Containers:       Lot ID of split containers:       Lot ID of split containers:       Pres []No         Project Manager SCUER Review:	Chain of Custody Present?	No No			
Short Nold Time Analysis (272 hr.)?   res   dfo   N/A   3. Rush Turn Around Time Requested?   res   dfo   N/A   4. Sufficient Volume?   free   No   N/A   5. Correct Containers Used?   free   No   N/A   5. Correct Containers Used?   free   No   N/A   6. - Pace Containers Used?   free   No   N/A   7. Dissolved analysis: Samples Field Filtered?   Pres   No   Df/A   8. Sample Labels Match COC?   free   No   N/A   9. -includes Date/Time/ID/Analysis Matrix:   // Headspace in VOA Vials [25-6mm]?   Pres   No   Df/A   11. Trip Blank Present?   Pres   No   Df/A   11. Trip Blank Custody Seals Present?   Pres   No   Df/A   12. Lot ID of split containers: EENT NOTIFICATION/RESOLUTION   Date/Time:   Date/Time:	Samples Arrived within Hold Time?	Byer INO	<u>□</u> N/A 2,		
Kush rum Arouns inme Requestedr Ures   Sufficient Volume? Image: State of the state of t	Short Hold Time Analysis (<72 hr.)?		<u>N/A</u> 3.		//////
Sufficient Volume? Cfree NA 5. Correct Containers Used? Prece Containers Container Conta	Rush Turn Around Time Requested?		<u>UN/A 4.</u>	ann ann an tha ann an tha ann an tha ann an tha tha ann an tha ann an tha tha ann an tha tha ann an tha ann ann Tha ann an tha ann an th	S
Correct Containers Used?       Cyres       INA       6.         -Pace Containers Used?       Cyres       INA       6.         Containers Intact?       Cyres       INO       IN/A       7.         Dissolved analysis: Samples Field Filtered?       Cyres       INO       IN/A       7.         Sample tabels Match COC?       Cyres       INO       IN/A       9.         -includes Date/Time/ID/Analysis       Matrix:       W       Includes Date/Time/ID/Analysis       Includes Date/Time/ID/Analysis         Headspace in VOA Vials (>5-6mm)?       Cyres       INO       IN/A       9.         -includes Date/Time/ID/Analysis       Matrix:       W       Includes Date/Time/ID/Analysis       Includes Date/Time/ID/Analysis         Headspace in VOA Vials (>5-6mm)?       Cyres       INO       IN/A       10.         Trip Blank Custody Seals Present?       Cyres       INO       EN/A       Includes Date/Time?         Comments/Sample Discrepancy       Lot ID of split containers:       Includes Containers:       Includes         Project Manager SCURF Review:       Date/Time:       Date/Time:       Includes         Project Manager SEB Badamy       Date/Time:       Date/Time:       Includes	Sufficient Volume?		<u> </u>	۲۰. ۵۰ می از این	6
Containers Intact? Imposed analysis: Samples Field Filtered?   Dissolved analysis: Samples Field Filtered? Imposed analysis: Samples Field Filtered?   Sample Labels Match COC? Imposed analysis: Matrix:   Includes Date/Time/ID/Analysis Matrix:   Headspace In VOA Vials (>5-6mm)? Imposed analysis: Samples Field Filtered?   Trip Blank Custody Seals Present? Imposed	Correct Containers Used? -Pace Containers Used?		UN/A 6.		
Dissolved analysis: Samples Field Filtered?   Yes_  No   M/A   8. Sample Labels Match COC?   Yes   No   N/A   9. -Includes Date/Time/ID/Analysis Matrix:   W    10. Headspace In VOA Vials [>5-6mm]?   Yes   No   N/A   1. Trip Blank Present?   Yes   No   N/A   1. Trip Blank Custody Seals Present?   Yes   No   Yes   No	Containers Intact?		□N/A 7.		
Sample Labels Match COC?	Dissolved analysis: Samples Field Filtered?		ETNIA 8.		
-includes Date/Time/ID/Analysis Matrix:	Sample Labels Match COC?	TYes No	□N/A 9.		******
Headspace in VOA Vials (>5-6mm)?       IVes       No       IV/A       10.         Trip Blank Present?       IVes       No       IV/A       11.         Trip Blank Custody Seals Present?       IVes       No       IV/A       11.         SOMMENTS/SAMPLE DISCREPANCY       Field Data Required?       IVes       No         Lot ID of split containers:       It is in the interval of	-Includes Date/Time/ID/Analysis Matrix:	W	till dill une with labius of which are a set of the set		
Trip Blank Present?	Headspace in VOA Vials (>5-6mm)?	Yes 🗍 No	10.		
Trip Blank Custody Seals Present?   OMMENTS/SAMPLE DISCREPANCY   Field Data Required? [Yes ]No Lot ID of split containers: Lot ID of split containers: Person contacted:	Trip Blank Present?	Yes No	(IN/A 11.		
Lot ID of split containers:         IENT NOTIFICATION/RESOLUTION         'erson contacted:         Date/Time:         Project Manager SCURF Review:         Date:         Date:         Date:         Date:	Trip Blank Custody Seals Present?	QYes No	Eñ/A	Field Data Required? Ye	s []No
IENT NOTIFICATION/RESOLUTION         Person contacted:			Lot ID	of split containers:	
Person contacted: Date/Time: Project Manager SCURF Review: Date:	IENT NOTIFICATION/RESOLUTION	an a			
Project Manager SCURF Review: Date:	Person contacted:		Date/Time:		
Declard Managar SDE Baudauu	Project Manager SCURF Review:			Date:	
	Desta Alexanor PDF Desta	1000 COLOR 1		Date	

Prove A male direct."	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 2 of 2
	Document No.: F-CAR-CS-033-Rev.07	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.

Project #

WO#:92525905

PM: KLH1 CLIENT: GA-GA Power

Due Date: 03/26/21

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg **\*\*Bottom half of box is to list number of bottles** 

#Hereit	BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-S00 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	<b>BP4S-</b> 125 mL Plastic H2SO4 (pH < 2) (CI-)	BP3N-250 mL plastic HNO3 (pH < 2)	8042-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (CI-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG1S-1 liter Amber H2SO4 (pH < 2)	<b>AG3S-</b> 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 Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 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 Plasfic (N/A - lab)	N/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 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.

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Name         Name <th< th=""><th></th><th></th><th></th><th>MICHLOOK.</th><th></th><th></th><th></th><th></th><th></th><th><u>E</u></th><th>PZ.35</th><th>YAMW-1</th><th></th><th>YAMW-5</th><th>YAMWA</th><th>YAWW-2</th><th>SAMPLI One Character p (A-Z, G-P ) Sample kts must</th><th></th><th></th><th>d Due Date:</th><th>(7701334-5526</th><th>A 30114</th><th>1070 Bridge MIII Av</th><th>: Georgia Power</th><th>Cilent Information:</th><th>AVER AVERAGEN</th></th<>				MICHLOOK.						<u>E</u>	PZ.35	YAMW-1		YAMW-5	YAMWA	YAWW-2	SAMPLI One Character p (A-Z, G-P ) Sample kts must			d Due Date:	(7701334-5526	A 30114	1070 Bridge MIII Av	: Georgia Power	Cilent Information:	AVER AVERAGEN
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AMPLER NAME AND SKONATURE				FLUTION DATE 13											122 S	SAMPLE TEMP AT COLLECTION # OF CONTAINERS			Page P	Pace (	Addre	Compa	Attend	Sectio	CHAIN-OF-CUS
athe puptiemin			OVINA/ SI	ACCEPTED BY	,											H2SO4 HNO3 HCI NaOH Na2S2O3 Methanol Other	Preservatives	0000	Project Manager: kevin.herring@	Quote:	SS:	any Name:	ion:	on C Information:	TODY / Analytical
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Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

April 07, 2021

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

RE: Project: YATES GPC Pace Project No.: 92531568

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on April 07, 2021. 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 - Peachtree Corners, GA

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

Sincerely,

Kein Hung

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR Lauren Coker, Georgia Pwer Geoffrey Gay, ARCADIS - Atlanta Kristen Jurinko Kelley Sharpe, ARCADIS - Atlanta Alex Simpson, Arcadis Samantha Thomas Maribel Vital





Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

## CERTIFICATIONS

Project: YATES GPC Pace Project No.: 92531568

#### Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092 Florida DOH Certification #: E87315 Georgia DW Inorganics Certification #: 812 North Carolina Certification #: 381 South Carolina Certification #: 98011001



## SAMPLE SUMMARY

Project: Pace Project No	YATES GPC 0.: 92531568			
Lab ID	Sample ID	Matrix	Date Collected	Date Received
92531568001	PZ-37D (90-100)	Water	04/06/21 17:35	04/07/21 08:12



## SAMPLE ANALYTE COUNT

Project:	YATES GPC
Pace Proiect No.:	92531568

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92531568001	PZ-37D (90-100)	EPA 6020B	CW1	2

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



## SUMMARY OF DETECTION

Project:	YATES GPC					
Pace Project No.:	92531568					
Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92531568001	PZ-37D (90-100)					
EPA 6020B	Boron	5.6	mg/L	0.20	04/07/21 14:26	
EPA 6020B	Selenium	0.14	mg/L	0.0050	04/07/21 14:20	



## ANALYTICAL RESULTS

Project: YATES GPC

Pace Project No.: 92531568

Sample: PZ-37D (90-100)	Lab ID:	92531568001	Collected	d: 04/06/21	17:35	Received: 04/	07/21 08:12 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Pace Ana	Method: EPA 6 lytical Services	020B Prepa - Peachtree	aration Met Corners, C	hod: EP GA	PA 3005A			
Boron	5.6	mg/L	0.20	0.026	5	04/07/21 10:10	04/07/21 14:26	7440-42-8	
Selenium	0.14	mg/L	0.0050	0.0016	1	04/07/21 10:10	04/07/21 14:20	7782-49-2	



## **QUALITY CONTROL DATA**

Project:	YATES GPC											
Pace Project No.:	92531568											
QC Batch:	611988		Anal	ysis Metho	od:	EPA 6020B						
QC Batch Method:	EPA 3005A		Anal	ysis Desci	ription:	6020 MET						
			Labo	oratory:		Pace Analy	tical Serv	ices - Peach	ntree Corne	rs, GA		
Associated Lab Sar	nples: 925315680	001										
METHOD BLANK:	3221312			Matrix: V	Vater							
Associated Lab Sar	nples: 925315680	001										
			Bla	nk	Reporting							
Parar	neter	Units	Res	ult	Limit	MD	L	Analyzec	l Qi	ualifiers		
Boron		mg/L	0	.0063J	0.04	0 (	0.0052	04/07/21 13	:45			
Selenium		mg/L		ND	0.005	60 (	0.0016	04/07/21 13	:45			
LABORATORY CO	NTROL SAMPLE:	3221313										
			Spike	L	CS	LCS	%	Rec				
Parar	neter	Units	Conc.	Re	esult	% Rec	Lii	mits	Qualifiers			
Boron		mg/L		1	1.0	10	4	80-120		_		
Selenium		mg/L	0	.1	0.10	10	2	80-120				
MATRIX SPIKE & N	ATRIX SPIKE DUP	LICATE: 3221	314		3221315	5						
			MS	MSD								
		92531064001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	r Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Boron	mg/L	ND	1	1	1.0	1.1	10	2 109	9 75-125	6	20	
Selenium	mg/L	ND	0.1	0.1	0.11	0.10	10	5 103	3 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.



### QUALIFIERS

Project: YATES GPC Pace Project No.: 92531568

#### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

**RPD** - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.



## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Pace Project No.:	YATES GPC 92531568				
Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92531568001	PZ-37D (90-100)	EPA 3005A	611988	EPA 6020B	612061

Paratini	Document N Sample Condition Upon	lame: n Receipt(SC	UR)	Document Revised October 28, 2020 Page 1 of 2
Pace Analytical	Document	No.:		Issuing Authority:
aboratory receiving samples:	F*CAA*C3-055	-Nev.07		Pace Carolinas Quarty Onice
Asheville Eden Greenwood		Rateigh		techanicsville Atlanta Kernersville
Sample Condition Upon Receipt	Wer - Ara	Pr	oject #: -	WO#:92531568
Commercial Pace	PS USPS Other	Etaier	st.	92531568
ustody Seal Present? □Yes 문화한 또	Seals Intact? . 🔲 Yes	No		Date/Initials Person Examining Contents: 4/7/21 KPW
scking Material: Doubble Wrap [	Bubble Bags None	Oth Oth	ier	Biological Tissue Frozen?
[] IR Gun ID: _230_	Type of Ice:	Wet 🔲 Blu	ie C	None
ooler Temp: 2.7 Correction 1 Add/Subtra ooler Temp Corrected (°C): ISDA Regulated Soil (FTN7A, water sample)	Factor: 0	-	Te	mp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling process has begun
id samples originate in a quarantine zone within th	e United States: CA, NY, or So	C (check map	is)? Di in	d samples originate from a foreign source (internationally, cluding Hawaii and Puerto Rico)? []Yes []No
Chain of Custody Present?	- PTivac □ No.			Comments/ Discrepancy;
Samples Arrived within Hold Time?			 	
Short Hold Time Analysis (<72 hr.)?			3	
Rush Turn Around Time Requested?	ATTA Dile		4	
Sufficient Volume?				
Correct Containers Used?			5. c	
-Pace Containers Used?			0.	
Containers Intact?	CETTes DNO		7.	2
Dissolved analysis: Samples Field Filtered?	Yes No	8 Parta	8.	
Sample Labels Match COC?	Zes DNO		9.	
-Includes Date/Time/ID/Analysis Matrix:	W			
Headspace in VOA Vials (>5-6mm)?	Yes No	TAHA	10.	
Trip Blank Present?	Yes No		11.	
COMMENTS/SAMPLE DISCREPANCY	LIYes LINO	<u>104</u>	I	Field Data Required? Yes No
	· · · · · · · · · · · · · · · · · · ·			k
		·····		ID 6 - 14
CLIENT NOTIFICATION/RESOLUTION			Lot	D of split containers:
	2			
Person contacted:		Date/T	ime:	
Project Manager SCURF Review:				Date:
Project Manager SRF Review:				Date:

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*Che verifi samp Except **Bo	ck ma ied an oles. tions: Vi ottom	rk to d wit 0A, Co half (	p ha thin liforn of be	lf of the a n, TOC ox is	box accer ;, oil a to lis	if photan nd Gr	t and ce ra rease, ambi	d/or inge DRO, er of	dect for ( /8015 boti	nlorin prese (wate tles	natio erval n co	on is tion c. เมร	3	1	Pro]	ect#	PC			: 9 GA-	<b>2</b> 5	53 Due Powe	15 Dat	56 te:	<b>8</b> 04/	08/2	21
tem# (N/A) (CI-) (CI-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserveri (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) {CI+}	BP3N-250 mL plastic HNO3 (pH < 2)	8P42-125 mL Plastic ZN Acetate & NaOH (>9)	8P4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Witle-minuthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCl (pH < 2)	AGBU-250 uit Amber Unpreserved (N/A) (CI-)	a615-4 liter Anther H25O4 (pH < 2)	AG35-2530 ntL Amber H25O4 (pH < 2)	AG3A(DG3A)-250 mL Amber NHACI (N/A)(CI-)	06911-40 mt VOA HCI (N/A)	VG9T-AD INL VOA Na25203 (N/A)	עניטעריאט אין אין אראס אין	DG9P-40) INL VOA FI 3PO4 (N/A)	VOAK (6 vials per kit)-5075 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lat)	SP2T-25() mL Sterile Physic (N/A – Iab)		BP3A-250 mL Plavic (NH2)2504 (9.3-9.7)	AGOU-100 niL Aminer Umpreserveri vials (N/A)	VSGU-20 ntL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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		pH Ad	ljustment Log for Pres	erved Samples		
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lat ¥
	-	N				

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

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Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

April 12, 2021

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

RE: Project: YATES Pace Project No.: 92532158

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on April 08, 2021. 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 - Peachtree Corners, GA

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

Sincerely,

typer Pager

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR Lauren Coker, Georgia Pwer Geoffrey Gay, ARCADIS - Atlanta Kristen Jurinko Kelley Sharpe, ARCADIS - Atlanta Alex Simpson, Arcadis Samantha Thomas Maribel Vital





## CERTIFICATIONS

Project: YATES Pace Project No.: 92532158

### Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092 Florida DOH Certification #: E87315 Georgia DW Inorganics Certification #: 812 North Carolina Certification #: 381 South Carolina Certification #: 98011001


# SAMPLE SUMMARY

Project: Pace Project No	YATES b.: 92532158			
Lab ID	Sample ID	Matrix	Date Collected	Date Received
92532158001	PZ-37D (130-150)	Water	04/08/21 15:05	04/08/21 16:45



### SAMPLE ANALYTE COUNT

Project: YATES Pace Project No.: 92532158

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92532158001	PZ-37D (130-150)	EPA 6020B	CW1	2
		EPA 6020B	CW1	2

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



# SUMMARY OF DETECTION

Project: YATES Pace Project No.: 92532158

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92532158001	PZ-37D (130-150)					
EPA 6020B	Boron	5.6	mg/L	0.040	04/09/21 11:25	
EPA 6020B	Selenium	0.18	mg/L	0.0050	04/09/21 11:25	
EPA 6020B	Boron, Dissolved	6.7	mg/L	0.040	04/09/21 12:33	M1
EPA 6020B	Selenium, Dissolved	0.18	mg/L	0.0050	04/09/21 12:33	



Project: YATES

Pace Project No.: 92532158

Sample: PZ-37D (130-150)	Lab ID:	92532158001	Collected	d: 04/08/21	15:05	Received: 04/	08/21 16:45 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Pace Analy	Method: EPA 6 ytical Services	020B Prep - Peachtree	aration Met Corners, G	hod: EF 3A	PA 3005A			
Boron	5.6	mg/L	0.040	0.0052	1	04/09/21 08:00	04/09/21 11:25	7440-42-8	
Selenium	0.18	mg/L	0.0050	0.0016	1	04/09/21 08:00	04/09/21 11:25	7782-49-2	
6020 MET ICPMS, Dissolved	Analytical	Method: EPA 6	020B Prep	aration Met	hod: EF	PA 3005A			
	Pace Analy	vtical Services	- Peachtree	e Corners, G	<b>A</b>				
Boron, Dissolved Selenium, Dissolved	6.7 0.18	mg/L mg/L	0.040 0.0050	0.0052 0.0016	1 1	04/09/21 08:00 04/09/21 08:00	04/09/21 12:33 04/09/21 12:33	7440-42-8 7782-49-2	M1



Project:	YATES											
Pace Project No.:	92532158											
QC Batch:	612504		Anal	ysis Meth	nod: I	EPA 6020B						
QC Batch Method:	EPA 3005A		Anal	ysis Desc	cription:	6020 MET						
			Labo	oratory:	I	Pace Analy	tical Serv	ices - Peach	tree Corne	rs, GA		
Associated Lab Sar	mples: 925321580	001										
METHOD BLANK:	3224301			Matrix:	Water							
Associated Lab Sar	mples: 925321580	001										
			Bla	nk	Reporting							
Para	neter	Units	Res	ult	Limit	MD	L	Analyzed	Qı	ualifiers		
Boron		mg/L		ND	0.04	0	0.0052	04/09/21 11	:14			
Selenium		mg/L		ND	0.005	0 (	0.0016	04/09/21 11	:14			
LABORATORY CO	NTROL SAMPLE:	3224302										
			Spike	l	CS	LCS	%	Rec				
Parar	neter	Units	Conc.	R	esult	% Rec	Li	mits	Qualifiers			
Boron		mg/L		1	0.98	9	8	80-120		_		
Selenium		mg/L	0	.1	0.098	9	8	80-120				
MATRIX SPIKE & M	ATRIX SPIKE DUP	LICATE: 3224	303		3224304							
			MS	MSD								
		92531885022	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	<b>.</b> .
Paramete	r Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits			Qual
Boron	mg/L	ND	1		1 0.98	0.93	ç	96 92	2 75-125	5	20	
Selenium	mg/L	ND	0.1	0.	1 0.10	0.10	ę	99 101	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:	YATES											
Pace Project No.:	92532158											
QC Batch:	612505		Anal	ysis Metho	od:	EPA 6020B						
QC Batch Method:	EPA 3005A		Anal	ysis Descr	ription:	6020 MET [	Dissolved	l				
			Labo	oratory:		Pace Analy	ical Serv	ices - Peach	tree Corne	rs, GA		
Associated Lab Sar	mples: 925321580	001										
METHOD BLANK:	3224306			Matrix: V	Vater							
Associated Lab Sar	mples: 925321580	001										
			Bla	nk	Reporting							
Para	meter	Units	Res	sult	Limit	MD	L	Analyzed	l Qi	ualifiers		
Boron, Dissolved		mg/L		ND	0.04	0 0	0.0052	04/09/21 12	:21			
Selenium, Dissolve	d	mg/L		ND	0.005	0 (	0.0016	04/09/21 12	:21			
LABORATORY CO	NTROL SAMPLE:	3224307										
			Spike	L	CS	LCS	%	Rec				
Parar	meter	Units	Conc.	Re	sult	% Rec	Lir	mits	Qualifiers			
Boron, Dissolved		mg/L		1	1.1	10	5	80-120				
Selenium, Dissolve	d	mg/L	0	.1	0.11	11	0	80-120				
MATRIX SPIKE & M	MATRIX SPIKE DUP	LICATE: 3224	308		3224309	)						
			MS	MSD								
_		92532158001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	<b>.</b> .
Paramete	r Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Boron, Dissolved	mg/L	6.7	1	1	6.8	7.2		6 46	5 75-125	6	20	M1
Selenium, Dissolve	d mg/L	0.18	0.1	0.1	0.26	0.28	8	1 105	5 75-125	9	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.



### QUALIFIERS

Project: YATES Pace Project No.: 92532158

### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

**RPD** - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

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



# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES Pace Project No.: 92532158

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92532158001	PZ-37D (130-150)	EPA 3005A	612504	EPA 6020B	612639
92532158001	PZ-37D (130-150)	EPA 3005A	612505	EPA 6020B	612641

Pace Analytical	D Sample Conc ( F-C/	ocument Name: dition Upon Rece Document No.: AR-CS-033-Rev 0	ípt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2 Issuing Authority: Page Carolines Quality Office
Laboratory receiving samples: Asheville Eden Greenwood Sample Condition Client Name:	Hunters	ville 🗌 Rale	eigh 🗌 M	echanicsville Atlanta Kernersville
Courier: Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commercial Commerc	PS DUSPS		Project #:	92532158
Custody Seal Present? Yes	ieals Intact?	Yes N	lo	Date/Initials Person Examining Contents: 4/8/24
Packing Material: Bubble Wrap Thermometer: 233 HR Gun ID: 233 Cooler Temp: 100 100 100 100 100 100 100 100	Bubble Bags Type of Ice actor: ct (°C) -0.		Other ]Blue □N Temp	Biological Tissue Frozen?
Cooler Temp Corrected (°C): (S USDA Regulated Soil ( N/A, water sample) Did samples originate in a quarantine zone within the Yes No	• 9 United States: CA,	NY, or SC (check n	L. ha naps)? Did sa includ	Imples originate from a foreign source (internationally, Imples originate from a foreign source (internationally, Ing Hawaii and Puerto Rico)? Yes No Comments/Discrepancy:
Chain of Custody Present?	LYes		1.	contractory proceeding.
Samples Arrived within Hold Time?	(Yes		2.	
Short Hold Time Analysis (<72 hr.)?	□ Yes		3.	
Rush Turn Around Time Requested?	Pres		4. A-S	AD
Sufficient Volume?	Deris		5117	<i>P</i> ,7
Correct Containers Used? -Pace Containers Used?	Pres Dyer		6.	
Containers Intact?	Gres		7.	
Dissolved analysis: Samples Field Filtered?	□Yes	DNO TINA	8.	
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix:	Wy		9.	
Headspace in VOA Vials (>5-6mm)?	[]Yes		10	
Trip Blank Present?	Yes		11.	
Trip Blank Custody Seals Present?	□Yes [	INO DINIA		
COMMENTS/SAMPLE DISCREPANCY			****	Field Data Required? Yes No
LIENT NOTIFICATION/RESOLUTION			Lot ID of s	plit containers:
Person contacted:		Date/Til	ne:	
Decised Manager Courses			(maard T)	
Project Manager SCURF Review:				Date:
Project Manager SRF Review:				Date:

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ltem#	BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	BP3U-250 mL Plastic Unpreserved (N/A)	8P2U-500 mL Plastic Unpreserved (N/A)	8P1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (CI-)	BP3N-250 mL pfastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (CI-)	WGFU-Wide-unputhed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCI (pH < 2)	AG3U-250 mL Amfaer Umpreserved (N/A) (CI-)	AG15-1 liter Anther H2SOA (pH+ 2)	AG35-250 mL Amber H25O4 {pH < 2}	AG3A{DG3A}-250 mL Amber MHACI (N/A)(Cl-)	DG9H-40 HIL VOA HCI (N/A)	VG91-40 mL VOA Na25203 (N/A)	VG9U-40 nit von Unp (N/A)	DG9P-4() INL VOA (I I/OA (N/A)	VOAK {6 vials per kit}-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 unt Sterite Plastic (N/A – fub)	SP2T-250 nil Sterde Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2504 (9.3-9.7)	AGOU-100 mt Amber Umpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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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 DERNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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			NTAT	ADDITIONAL COMMENTS												7-570-(13-150)	SAMPLE ID Source Character per box. (A-Z, e-9 /,-	-		ue Date: 4-90	They gay@arcadis.com/hand.anillCon	10339	2839 Paces Ferry Rd.	enternation:		Arace Arabytical
			3											-				800		Project #:	Purchase (		Copy To:	Required	Section B	
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Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

April 15, 2021

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

RE: Project: YATES Pace Project No.: 92533139

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on April 14, 2021. 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 - Peachtree Corners, GA

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

Sincerely,

Kein Hung

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR Lauren Coker, Georgia Pwer Geoffrey Gay, ARCADIS - Atlanta Kristen Jurinko Kelley Sharpe, ARCADIS - Atlanta Alex Simpson, Arcadis Samantha Thomas Maribel Vital





# CERTIFICATIONS

Project: YATES Pace Project No.: 92533139

### Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092 Florida DOH Certification #: E87315 Georgia DW Inorganics Certification #: 812 North Carolina Certification #: 381 South Carolina Certification #: 98011001



# SAMPLE SUMMARY

92533139001	PZ-37D (195-200)	Water	04/14/21 12:14	04/14/21 15:00
Lab ID	Sample ID	Matrix	Date Collected	Date Received
Pace Project No	p.: 92533139			
Project:	YATES			



### SAMPLE ANALYTE COUNT

Project: YATES Pace Project No.: 92533139

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92533139001	PZ-37D (195-200)	EPA 6020B	CW1	2
		EPA 6020B	CW1	2

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



### SUMMARY OF DETECTION

Project:	YATES					
Pace Project No.:	92533139					
Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92533139001	PZ-37D (195-200)					
EPA 6020B	Boron	0.038J	mg/L	0.040	04/15/21 10:03	
EPA 6020B	Boron, Dissolved	0.040	mg/L	0.040	04/15/21 10:55	



Project: YATES

Pace Project No.: 92533139

Sample: PZ-37D (195-200)	Lab ID:	92533139001	Collecte	d: 04/14/2	1 12:14	Received: 04/	14/21 15:00 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Pace Anal	Method: EPA 6 lytical Services	020B Prep - Peachtree	eration Met Corners, C	hod: EF GA	PA 3005A			
Boron	0.038J	mg/L	0.040	0.0052	1	04/14/21 15:19	04/15/21 10:03	7440-42-8	
Selenium	ND	mg/L	0.0050	0.0016	1	04/14/21 15:19	04/15/21 10:03	7782-49-2	
6020 MET ICPMS, Dissolved	Analytical	Method: EPA 6	020B Prep	aration Met	hod: EF	PA 3005A			
	Pace Anal	ytical Services	- Peachtree	e Corners, C	SA				
Boron, Dissolved	0.040	mg/L	0.040	0.0052	1	04/14/21 15:21	04/15/21 10:55	7440-42-8	
Selenium, Dissolved	ND	mg/L	0.0050	0.0016	1	04/14/21 15:21	04/15/21 10:55	7782-49-2	



Project:	YATES											
Pace Project No.:	92533139											
QC Batch:	613734		Anal	ysis Metł	hod: I	EPA 6020B						
QC Batch Method:	EPA 3005A		Anal	ysis Des	cription: 6	6020 MET						
			Labo	oratory:	I	Pace Analy	tical Serv	vices - Peacł	ntree Corne	rs, GA		
Associated Lab Sar	mples: 925331390	001										
METHOD BLANK:	3230180			Matrix:	Water							
Associated Lab Sar	mples: 925331390	001										
			Bla	nk	Reporting							
Para	neter	Units	Res	ult	Limit	MD	L	Analyzed	d Qı	ualifiers		
Boron		mg/L		ND	0.04	0 0	0.0052	04/15/21 09	9:52			
Selenium		mg/L		ND	0.005	0 (	0.0016	04/15/21 09	9:52			
LABORATORY CO	NTROL SAMPLE:	3230181										
			Spike		LCS	LCS	%	Rec				
Parar	neter	Units	Conc.	R	Result	% Rec	Li	imits	Qualifiers			
Boron		mg/L		1	0.96	9	6	80-120		_		
Selenium		mg/L	0	.1	0.094	9	4	80-120				
MATRIX SPIKE & M	ATRIX SPIKE DUP	LICATE: 3230	182		3230183	6						
			MS	MSD								
Danassata	. 11-9-	92533139001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	Qual
Paramete		Kesuit	Conc.	Conc.	Kesuit	Result	% Kec	: % KeC		<u>крр</u>	KPD	Quai
Boron	mg/L	0.040	1		1 0.98	0.97	ę	94 93	3 75-125	2	20	
Selenium	mg/L	ND	0.1	0.	.1 0.097	0.086	ç	95 85	5 75-125	11	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											
Pace Project No.:	92533139											
QC Batch:	613736		Anal	ysis Meth	od:	EPA 6020B						
QC Batch Method:	EPA 3005A		Anal	ysis Desc	ription:	6020 MET I	Dissolve	d				
			Labo	oratory:		Pace Analy	tical Serv	vices - Peach	ntree Corne	rs, GA		
Associated Lab Sar	mples: 925331390	001										
METHOD BLANK:	3230190			Matrix:	Water							
Associated Lab Sa	mples: 925331390	001										
			Bla	nk	Reporting							
Para	meter	Units	Res	ult	Limit	MD	L	Analyzed	l Qi	ualifiers		
Boron, Dissolved		mg/L		ND	0.04	0 (	0.0052	04/15/21 10	:44			
Selenium, Dissolve	d	mg/L		ND	0.005	0	0.0016	04/15/21 10	:44			
LABORATORY CO	NTROL SAMPLE:	3230191										
			Spike	L	CS	LCS	%	Rec				
Para	meter	Units	Conc.	R	esult	% Rec	Li	imits	Qualifiers			
Boron, Dissolved		mg/L		1	1.1	10	6	80-120		_		
Selenium, Dissolve	d	mg/L	0	.1	0.092	9	2	80-120				
MATRIX SPIKE & M	MATRIX SPIKE DUP	LICATE: 3230	192		3230193	3						
			MS	MSD					_			
David		92533139001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	0
Paramete	units	Result	Conc.	Conc.	Result	Result	% Rec	Kec	Limits	RPD	RPD	Qual
Boron, Dissolved	mg/L	0.040	1		1 1.0	1.1	ç	96 105	5 75-125	8	20	
Selenium, Dissolve	d mg/L	ND	0.1	0.1	1 0.094	0.097	ę	94 97	75-125	4	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.



### QUALIFIERS

Project: YATES Pace Project No.: 92533139

### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

**RPD** - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.



# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES Pace Project No.: 92533139

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92533139001	PZ-37D (195-200)	EPA 3005A	613734	EPA 6020B	613780
92533139001	PZ-37D (195-200)	EPA 3005A	613736	EPA 6020B	613779

Pace Analytical	Doc Sample Condit Do F-CAR	ument Name: ion Upon Receipt( cument No.: t-CS-033-Rev.07	SCUR)	Document Revised: October 28, 2020 Page 1 of 2 Issuing Authority: Pace Carolinas Quality Office
Laboratory receiving samples: Asheville Eden Greenwood	Huntersvi	lle 🗌 🛛 Raleig	h[] M	lechanicsville Atlanta Kernersville
Sample Condition     Client Name:       Upon Receipt     Arrada       Courier:     Fed Ex       Commercial     Pace	rs ⊡usps ⊡Other:_	lower Ben	Project #:	WO# : 92533139
Custody Seal Present? Yes	Seals Intact?	Yes No		Date/Initials Person Examining Contents: 4/14/24
Packing Material: Bubble Wrap Thermometer: IR Gun ID: 2-3-3 Correction F Cooler Temp: 2-1-3 Add/Subtra	Bubble Bags [ Type of Ice: actor: ct (°C) -0-0 1 1		iher lue 🔲 Tem	Biological Tissue Frozen? Yes Mo N/A None p should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling process
Cooler Temp Corrected (°C): USDA Regulated Soil (  N/A, water sample) Did samples originate in a quarantine zone within the Yes No	United States: CA, N	NY, or SC (check ma	ps)? Did incl	has begun samples originate from a foreign source (internationally, uding Hawaii and Puerto Rico)? Yes No Comments/Discrepancy:
Chain of Custody Present?	Teres		1.	
Samples Arrived within Hold Time?	Fres		2.	
Short Hold Time Analysis (<72 hr.)?	Yes		3	
Rush Turn Around Time Requested?	CHT5		4. 2	thr TAR
Sufficient Volume?	ATTON		5	
Sumclent Volumer			6	
-Pace Containers Used?	Q×er			
Containers Intact?	Thes		7.	
Dissolved analysis: Samples Field Filtered?	Tres		18/14/2	4
Sample Labels Match COC?	Elves		9.	
-Includes Date/Time/ID/Analysis Matrix:	W			
Headspace in VOA Vials (>5-6mm)?	□Yes		10.	-
Trip Blank Present?	Yes	DNO ENTA	11.	
Trip Blank Custody Seals Present?	Yes			
COMMENTS/SAMPLE DISCREPANCY				Field Data Required? Yes No
			Lot ID	of split containers:
CLIENT NOTIFICATION/RESOLUTION				
Person contacted:		Date/Ti	me:	
Project Manager SCURF Review:				Date:
Project Manager SRF Review:				Date:

2	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 23, 2020 Page 2 of 2
PaceAnalylical	Document No.:	Issuing Authority:
	F-CAR-CS-033-Rev.07	Pace Carolinas Quality Office

Project "

PM: KLH1

WO#: 92533139

Due Date: 04/15/21

\*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/3015 (water) COC. LEH3

Exc **	eptio Bott	ns: V( om l	nalf (	liforn of be	n, TOC DX is	to li	and Gi st ni	rease, Imbe	DRO, er of	/3015 bot	(wate tles	r) CO	C. Ll÷	3				CLI	ENT :	GA	-GA	Pou	ier					
ltem#	8P4U-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)	BP42-125 mL Plastic 2N Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Withe-mouthed Class jar Unpreserved	AGIU-1 liter Amher Unpreserved (N/A) (CI-)	AG1H-1 liter Amher HCI (pH < 2)	4G3U-250 tol. Anther Unpreserved (N/A) (CI-)	4615-1 liter Anther (2504 (pl1 + 2)	AG35-25(0 mit Amher H25O4 (pH < 2)	aG3A{DG3A}-250 mL Amber Ni1ACI {M/A}{CI-}	0G9(1-40 mL VOA HCI (N/A)	(V/V) (V/V) NO2520N VOV THI UV-160/	VG9U-40 IIIL VOA Unip (N/A)	069P-40 mt VOA H 11404 (N/A)	VOAK (6 vials per kit)-5:035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 nut Sterile Plastic (N/A - Iab)	SP2T-250 mt Sterile Plastic [N/A - Isb]		8P3A-250 mL Plastic (NH2)25O4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scritillation vials (N/A)	069U-40 mL Amher 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 DEHNE Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

-	N	
	Ca:	
	Ana	

# 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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		wsh TAT	ADDITIONAL COMMENTS						12-3710-(195-200)	SAMPLE ID One Cheracter per box. (A-Z, c-9 /, - ) Semple ldts must be unique		one name: 14 444 2	Fax	1 30000	1754 Kimberly Dr. SW	Arcadis (GA Power)	lient Information:
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s p	-	A MANICUA	INCURSED BY / ATTEM						1 G-14/4/24 /209	SAMPLE TYPE (G-GRAB C	COMP)		Yales	#	mt. wither	rant Willford	ct Information:
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ATURE C. IKond		11300						 	X	SAMPLE TEMP AT COLLECTION # OF CONTAINERS Unpreserved H2SO4 HNO3		Pace Profile #;	Page Project Man	Pace Quole:	Company Name:	Attention:	Section C Invoice Informat
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TEMP In C Received on IceD (Y/N) Custody SealedD CoolerD (Y/N) Samples IntactD (Y/N)			SAMPLE CONDITIONS						B, & RUSMIT	Residual Chiorine (Y/N)		0A	Stade / Location	Regulatory Agency			5



Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

May 21, 2021

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

RE: Project: YATES Pace Project No.: 92538834

### Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on May 14, 2021. 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,

Kein Stury

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR Lauren Coker, Georgia Pwer Geoffrey Gay, ARCADIS - Atlanta Kristen Jurinko Kelley Sharpe, ARCADIS - Atlanta Alex Simpson, Arcadis Samantha Thomas Maribel Vital





Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

### CERTIFICATIONS

Project: YATES Pace Project No.: 92538834

### Pace Analytical Services Charlotte

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

### Pace Analytical Services Asheville

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

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

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

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



### SAMPLE SUMMARY

Project: YATES Pace Project No.: 92538834

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92538834001	PZ-37D	Water	05/13/21 12:30	05/14/21 09:30
92538834002	FB-1	Water	05/13/21 11:30	05/14/21 09:30
92538834003	EB-1	Water	05/13/21 18:30	05/14/21 09:30
92538834004	DUP-1	Water	05/13/21 00:00	05/14/21 09:30



# SAMPLE ANALYTE COUNT

Project:	YATES			
Pace Project No	.: 92538834			
Lab ID	Sample ID	Method	Analysts	Analytes Reported
92538834001	PZ-37D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92538834002	FB-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92538834003	EB-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92538834004	DUP-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	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: YATES

Pace Project No.: 92538834

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92538834001	PZ-37D					
	Performed by	CUSTOME R			05/14/21 14:40	
	рН	7.79	Std. Units		05/14/21 14:40	
EPA 6010D	Calcium	68.3	mg/L	1.0	05/18/21 16:27	
EPA 6020B	Antimony	0.00052J	mg/L	0.0030	05/19/21 14:44	В
EPA 6020B	Barium	0.015	mg/L	0.0050	05/19/21 14:44	
EPA 6020B	Boron	1.3	mg/L	0.040	05/19/21 14:44	
EPA 6020B	Lead	0.000049J	mg/L	0.0010	05/19/21 14:44	
EPA 6020B	Lithium	0.011J	mg/L	0.030	05/19/21 14:44	
EPA 6020B	Molybdenum	0.0042J	mg/L	0.010	05/19/21 14:44	
SM 2540C-2011	Total Dissolved Solids	381	mg/L	10.0	05/19/21 08:19	
EPA 300.0 Rev 2.1 1993	Chloride	4.0	mg/L	1.0	05/18/21 01:17	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	05/18/21 01:17	M1
EPA 300.0 Rev 2.1 1993	Sulfate	178	mg/L	3.0	05/18/21 15:11	M1
92538834002	FB-1					
EPA 6020B	Antimony	0.0019J	mg/L	0.0030	05/19/21 15:06	В
EPA 6020B	Boron	0.0092J	mg/L	0.040	05/19/21 15:06	
92538834003	EB-1					
EPA 6020B	Antimony	0.00067J	mg/L	0.0030	05/19/21 15:12	В
EPA 6020B	Boron	0.0052J	mg/L	0.040	05/19/21 15:12	
92538834004	DUP-1					
EPA 6010D	Calcium	71.6	mg/L	1.0	05/18/21 17:24	
EPA 6020B	Antimony	0.00044J	mg/L	0.0030	05/19/21 15:18	В
EPA 6020B	Barium	0.015	mg/L	0.0050	05/19/21 15:18	
EPA 6020B	Boron	1.2	mg/L	0.040	05/19/21 15:18	
EPA 6020B	Lead	0.000040J	mg/L	0.0010	05/19/21 15:18	
EPA 6020B	Lithium	0.011J	mg/L	0.030	05/19/21 15:18	
EPA 6020B	Molybdenum	0.0040J	mg/L	0.010	05/19/21 15:18	
SM 2540C-2011	Total Dissolved Solids	383	mg/L	10.0	05/19/21 08:19	
EPA 300.0 Rev 2.1 1993	Chloride	3.9	mg/L	1.0	05/18/21 02:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	05/18/21 02:24	
EPA 300.0 Rev 2.1 1993	Sulfate	154	mg/L	3.0	05/18/21 15:56	



Pace Project No.:         92538834           Sample:         PZ-37D         Lab ID:         92538834001         Collected:         05/13/21         12:30         Received:         05/14/21         09:30         Matrix:         Water           Parameters         Results         Units         Limit         MDL         DF         Prepared         Analyzed         CAS           Field Data         Analytical Method: Pace Analytical Services - Charlotte         D         DF         Prepared         Analyzed         CAS           Performed by         CUSTOME R         1         05/14/21         14:40         P           G010D ATL ICP         Analytical Method: EPA 6010D         Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA         Calcium         68.3         mg/L         1.0         0.13         1         05/18/21         16:27         7440-7           G020 MET ICPMS         Analytical Method: EPA 6020B         Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA         O5/18/21         10:21         10:21         10:21         10:21         10:21         10:21         10:21         10:21         10:21         10:21         10:21         10:21         10:21         10:21         10:21 <th20:21< th="">         10:21         10:21<!--</th--><th></th></th20:21<>	
Sample:         PZ-37D         Lab ID:         92538834001         Collected:         05/13/21         12:30         Received:         05/14/21         09:30         Matrix:         Water           Parameters         Results         Units         Limit         MDL         DF         Prepared         Analyzed         CAS           Field Data         Analytical Method: Pace Analytical Services - Charlotte         P         Prepared         Analyzed         CAS           Performed by         CUSTOME PH         1         05/14/21         05/14/21         14:40           6010D ATL ICP         Analytical Method: EPA 6010D         Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA         05/18/21         10:27         7440-7           6020 MET ICPMS         Analytical Method: EPA 6020B         Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA         05/18/21         13:16         05/19/21         14:44         7440-3           Antimony         0.00052J         mg/L         0.0030         0.00028         1         05/18/21         13:16         05/19/21         14:44         7440-3           Arsenic         ND         mg/L         0.0050         0.00078         1         05/18/21         13:16         05/19/21         14:44	
ParametersResultsUnitsReport LimitMDLDFPreparedAnalyzedCASField DataAnalytical Method: Pace Analytical Services - CharlottePerformed byCUSTOME R105/14/21 14:40pH7.79Std. Units105/14/21 14:406010D ATL ICPAnalytical Method: EPA 6010D Pace Analytical Services - Peachtree Corners, GAEPA 3010A Pace Analytical Services - Peachtree Corners, GACalcium68.3mg/L1.00.13105/18/21 10:0705/18/21 16:277440-76020 MET ICPMSAnalytical Method: EPA 6020B Pace Analytical Services - Peachtree Corners, GAAnalytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GAAntimony0.00052Jmg/L0.00300.00028105/18/21 13:1605/19/21 14:447440-3ArsenicNDmg/L0.00500.00078105/18/21 13:1605/19/21 14:447440-3Barium0.015mg/L0.00500.00071105/18/21 13:1605/19/21 14:447440-3	er
ParametersResultsUnitsLimitMDLDFPreparedAnalyzedCASField DataAnalytical Method: Pace Analytical Services - CharlottePerformed byCUSTOME R105/14/21 14:40pH7.79Std. Units105/14/21 14:406010D ATL ICPAnalytical Method: EPA 6010D Pace Analytical Services - Peachtree Corners, GAEPA 3010A Pace Analytical Services - Peachtree Corners, GACalcium68.3mg/L1.00.13105/18/21 10:0705/18/21 16:277440-76020 MET ICPMSAnalytical Method: EPA 6020B Pace Analytical Services - Peachtree Corners, GAAnalytical Services - Peachtree Corners, GAAntimony0.00052Jmg/L0.00300.00028105/18/21 13:1605/19/21 14:447440-3ArsenicNDmg/L0.00500.00078105/18/21 13:1605/19/21 14:447440-3Barium0.0155mg/L0.00500.00078105/18/21 13:1605/19/21 14:447440-3	
Field Data       Analytical Method: Pace Analytical Services - Charlotte       1       05/14/21 14:40         Performed by       CUSTOME R       1       05/14/21 14:40       1         pH       7.79       Std. Units       1       05/14/21 14:40       1         6010D ATL ICP       Analytical Method: EPA 6010D       Preparation Method: EPA 3010A       Pace Analytical Services - Peachtree Corners, GA       1       05/18/21 10:07       05/18/21 16:27       7440-7         Calcium       68.3       mg/L       1.0       0.13       1       05/18/21 10:07       05/18/21 16:27       7440-7         6020 MET ICPMS       Analytical Method: EPA 6020B       Preparation Method: EPA 3005A       Pace Analytical Services - Peachtree Corners, GA       1       05/18/21 13:16       05/19/21 14:44       7440-3         Antimony       0.00052J       mg/L       0.0030       0.00028       1       05/18/21 13:16       05/19/21 14:44       7440-3         Arsenic       ND       mg/L       0.0050       0.00071       1       05/18/21 13:16       05/19/21 14:44       7440-3	No. Qual
Pace Analytical Services - Charlotte         Performed by       CUSTOME R       1       05/14/21 14:40         pH       7.79       Std. Units       1       05/14/21 14:40         6010D ATL ICP       Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA       EPA 3010A         Calcium       68.3       mg/L       1.0       0.13       1       05/18/21 10:07       05/18/21 16:27       7440-7         6020 MET ICPMS       Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA       Image: Corners, GA       Image: Corners, GA         Antimony       0.00052J       mg/L       0.0030       0.00028       1       05/18/21 13:16       05/19/21 14:44       7440-3         Arsenic       ND       mg/L       0.0050       0.00078       1       05/18/21 13:16       05/19/21 14:44       7440-3         Out       mg/L       0.0050       0.00071       1       05/18/21 13:16       05/19/21 14:44       7440-3	
Performed by       CUSTOME R       O5/14/21 14:40       O5/14/21 14:40         pH       7.79       Std. Units       1       05/14/21 14:40       05/14/21 14:40         6010D ATL ICP       Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA       I       05/18/21 10:07       05/18/21 16:27       7440-7         6020 MET ICPMS       Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA       I       05/18/21 10:07       05/18/21 16:27       7440-7         Antimony       0.00052J ND       mg/L       0.0030       0.0028       1       05/18/21 13:16       05/19/21 14:44       7440-3         Barium       0.015       mg/L       0.0050       0.00071       1       05/18/21 13:16       05/19/21 14:44       7440-3	
pH       7.79       Std. Units       1       05/14/21 14:40         6010D ATL ICP       Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA       EPA 3010A         Calcium       68.3       mg/L       1.0       0.13       1       05/18/21 10:07       05/18/21 16:27       7440-7         6020 MET ICPMS       Analytical Method: EPA 6020B       Preparation Method: EPA 3005A       Pace Analytical Services - Peachtree Corners, GA       Pace Analytical Services - Peachtree Corners, GA         Antimony       0.00052J       mg/L       0.0030       0.00028       1       05/18/21 13:16       05/19/21 14:44       7440-3         Arsenic       ND       mg/L       0.0050       0.00078       1       05/18/21 13:16       05/19/21 14:44       7440-3         Barium       0.015       mg/L       0.0050       0.00071       1       05/18/21 13:16       05/19/21 14:44       7440-3	
6010D ATL ICP       Analytical Method: EPA 6010D       Preparation Method: EPA 3010A         Pace Analytical Services - Peachtree Corners, GA       Calcium       68.3       mg/L       1.0       0.13       1       05/18/21 10:07       05/18/21 16:27       7440-7         6020 MET ICPMS       Analytical Method: EPA 6020B       Preparation Method: EPA 3005A       Pace Analytical Services - Peachtree Corners, GA         Antimony       0.00052J       mg/L       0.0030       0.00028       1       05/18/21 13:16       05/19/21 14:44       7440-3         Arsenic       ND       mg/L       0.0050       0.00071       1       05/18/21 13:16       05/19/21 14:44       7440-3	
Pace Analytical Services - Peachtree Corners, GA           Calcium         68.3         mg/L         1.0         0.13         1         05/18/21 10:07         05/18/21 16:27         7440-7           6020 MET ICPMS         Analytical Method: EPA 6020B         Preparation Method: EPA 3005A         Pace Analytical Services - Peachtree Corners, GA           Antimony         0.00052J         mg/L         0.0030         0.00028         1         05/18/21 13:16         05/19/21 14:44         7440-3           Arsenic         ND         mg/L         0.0050         0.00078         1         05/18/21 13:16         05/19/21 14:44         7440-3           Barium         0.015         mg/L         0.0050         0.00071         1         05/18/21 13:16         05/19/21 14:44         7440-3	
Calcium       68.3       mg/L       1.0       0.13       1       05/18/21 10:07       05/18/21 16:27       7440-7         6020 MET ICPMS       Analytical Method: EPA 6020B       Preparation Method: EPA 3005A       EPA 3005A         Pace Analytical Services - Peachtree Corners, GA         Antimony       0.00052J       mg/L       0.0030       0.00028       1       05/18/21 13:16       05/19/21 14:44       7440-3         Arsenic       ND       mg/L       0.0050       0.00071       1       05/18/21 13:16       05/19/21 14:44       7440-3	
6020 MET ICPMS         Analytical Method: EPA 6020B         Preparation Method: EPA 3005A           Pace Analytical Services - Peachtree Corners, GA           Antimony         0.00052J         mg/L         0.0030         0.00028         1         05/18/21 13:16         05/19/21 14:44         7440-3           Arsenic         ND         mg/L         0.0050         0.00078         1         05/18/21 13:16         05/19/21 14:44         7440-3           Barium         0.015         mg/L         0.0050         0.00071         1         05/18/21 13:16         05/19/21 14:44         7440-3	-2
Descention         Pace Analytical Services - Peachtree Corners, GA           Antimony         0.00052J         mg/L         0.0030         0.00028         1         05/18/21         13:16         05/19/21         14:44         7440-3           Arsenic         ND         mg/L         0.0050         0.00078         1         05/18/21         13:16         05/19/21         14:44         7440-3           Barium         0.015         mg/L         0.0050         0.00071         1         05/18/21         13:16         05/19/21         14:44         7440-3	
Antimony         0.00052J         mg/L         0.0030         0.00028         1         05/18/21         13:16         05/19/21         14:44         7440-3           Arsenic         ND         mg/L         0.0050         0.00078         1         05/18/21         13:16         05/19/21         14:44         7440-3           Barium         0.015         mg/L         0.0050         0.00078         1         05/18/21         13:16         05/19/21         14:44         7440-3	
Arsenic         ND         mg/L         0.0050         0.00078         1         05/18/21         13:16         05/19/21         14:44         7440-3           Barium         0.015         mg/L         0.0050         0.00078         1         05/18/21         13:16         05/19/21         14:44         7440-3	-0 B
Barium 0,015 mg/l 0,0050 0,00071 1, 05/18/21 13:16, 05/19/21 14:44, 7440-3	-2
	-3
Beryllium ND mg/L 0.00050 0.000046 1 05/18/21 13:16 05/19/21 14:44 7440-4	-7
Boron <b>1.3</b> mg/L 0.040 0.0052 1 05/18/21 13:16 05/19/21 14:44 7440-4	-8
Cadmium ND mg/L 0.00050 0.00012 1 05/18/21 13:16 05/19/21 14:44 7440-4	-9
Chromium ND mg/L 0.0050 0.00055 1 05/18/21 13:16 05/19/21 14:44 7440-4	-3
Cobalt ND mg/L 0.0050 0.00038 1 05/18/21 13:16 05/19/21 14:44 7440-4	-4
Lead 0.000049J mg/L 0.0010 0.000036 1 05/18/21 13:16 05/19/21 14:44 7439-9	-1
Lithium 0.011J mg/L 0.030 0.00081 1 05/18/21 13:16 05/19/21 14:44 7439-9	-2
Molybdenum 0.0042J mg/L 0.010 0.00069 1 05/18/21 13:16 05/19/21 14:44 7439-9	-7
Selenium ND mg/L 0.0050 0.0016 1 05/18/21 13:16 05/19/21 14:44 7782-4	-2
Thallium         ND         mg/L         0.0010         0.00014         1         05/18/21         13:16         05/19/21         14:44         7440-2	-0
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A	
Pace Analytical Services - Peachtree Corners, GA	
Mercury ND mg/L 0.00020 0.000078 1 05/18/21 14:00 05/19/21 11:03 7439-9	-6
2540C Total Dissolved Solids Analytical Method: SM 2540C-2011	
Pace Analytical Services - Peachtree Corners, GA	
Total Dissolved Solids         381         mg/L         10.0         10.0         1         05/19/21         08:19	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0 Rev 2.1 1993	
Pace Analytical Services - Asheville	
Chloride <b>4.0</b> ma/L 1.0 0.60 1 05/18/21 01:17 16887-	0-6
Fluoride 0.12 mg/L 0.10 0.050 1 05/18/21 01:17 16984-	8-8 M1
Sulfate <b>178</b> mg/L 3.0 1.5 3 05/18/21 15:11 14808-	9-8 M1



Project:	YATES
Pace Project No.:	92538834

Sample: FB-1	Lab ID:	92538834002	Collecte	ed: 05/13/2	1 11:30	Received: 05/	14/21 09:30 Ma	atrix: Water	
_			Report			_			
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Me	thod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	GA				
Calcium	ND	mg/L	1.0	0.13	1	05/18/21 10:07	05/18/21 16:37	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Me	thod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, (	GΑ				
Antimony	0.0019J	mg/L	0.0030	0.00028	1	05/18/21 13:16	05/19/21 15:06	7440-36-0	В
Arsenic	ND	mg/L	0.0050	0.00078	1	05/18/21 13:16	05/19/21 15:06	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	05/18/21 13:16	05/19/21 15:06	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	05/18/21 13:16	05/19/21 15:06	7440-41-7	
Boron	0.0092J	mg/L	0.040	0.0052	1	05/18/21 13:16	05/19/21 15:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	05/18/21 13:16	05/19/21 15:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	05/18/21 13:16	05/19/21 15:06	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	05/18/21 13:16	05/19/21 15:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	05/18/21 13:16	05/19/21 15:06	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	05/18/21 13:16	05/19/21 15:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	05/18/21 13:16	05/19/21 15:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	05/18/21 13:16	05/19/21 15:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	05/18/21 13:16	05/19/21 15:06	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Pre	paration Met	thod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, (	GA				
Mercury	ND	mg/L	0.00020	0.000078	1	05/18/21 14:00	05/19/21 11:12	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2011						
	Pace Ana	lytical Services	- Peachtre	e Corners, (	GA				
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		05/19/21 08:19		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville	•					
Chloride	ND	mg/L	1.0	0.60	1		05/18/21 01:57	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		05/18/21 01:57	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		05/18/21 01:57	14808-79-8	



Project:	YATES									
Pace Project No.:	92538834									
Sample: EB-1		Lab ID:	92538834003	Collected	d: 05/13/2 <sup>,</sup>	1 18:30	Received: 05/	14/21 09:30 Ma	atrix: Water	
				Report						
Parame	ters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical	Method: EPA 6	010D Prep	aration Met	thod: EF	PA 3010A			
		Pace Anal	ytical Services	- Peachtree	Corners, C	GΑ				
Calcium		ND	mg/L	1.0	0.13	1	05/18/21 10:07	05/18/21 16:41	7440-70-2	
6020 MET ICPMS		Analytical	Method: EPA 6	020B Prep	aration Met	thod: EF	PA 3005A			
		Pace Anal	ytical Services	- Peachtree	Corners, C	ΞA				
Antimony		0 00067.1	ma/l	0.0030	0 00028	1	05/18/21 13.16	05/19/21 15.12	7440-36-0	в
Arsenic			mg/L	0.0050	0.00020	1	05/18/21 13:16	05/19/21 15:12	7440-38-2	D
Barium		ND	mg/L	0.0050	0.00071	1	05/18/21 13:16	05/19/21 15:12	7440-39-3	
Bervllium		ND	ma/L	0.00050	0.000046	1	05/18/21 13:16	05/19/21 15:12	7440-41-7	
Boron		0.0052J	ma/L	0.040	0.0052	1	05/18/21 13:16	05/19/21 15:12	7440-42-8	
Cadmium		ND	ma/L	0.00050	0.00012	1	05/18/21 13:16	05/19/21 15:12	7440-43-9	
Chromium		ND	mg/L	0.0050	0.00055	1	05/18/21 13:16	05/19/21 15:12	7440-47-3	
Cobalt		ND	mg/L	0.0050	0.00038	1	05/18/21 13:16	05/19/21 15:12	7440-48-4	
Lead		ND	mg/L	0.0010	0.000036	1	05/18/21 13:16	05/19/21 15:12	7439-92-1	
Lithium		ND	mg/L	0.030	0.00081	1	05/18/21 13:16	05/19/21 15:12	7439-93-2	
Molybdenum		ND	mg/L	0.010	0.00069	1	05/18/21 13:16	05/19/21 15:12	7439-98-7	
Selenium		ND	mg/L	0.0050	0.0016	1	05/18/21 13:16	05/19/21 15:12	7782-49-2	
Thallium		ND	mg/L	0.0010	0.00014	1	05/18/21 13:16	05/19/21 15:12	7440-28-0	
7470 Mercury		Analytical	Method: EPA 7	470A Prep	aration Met	hod: EP	A 7470A			
		Pace Anal	ytical Services	- Peachtree	Corners, C	GΑ				
Mercury		ND	mg/L	0.00020	0.000078	1	05/18/21 14:00	05/19/21 11:15	7439-97-6	
2540C Total Dissol	ved Solids	Analytical	Method: SM 25	540C-2011						
		Pace Anal	ytical Services	- Peachtree	Corners, C	GΑ				
Total Dissolved Solid	ds	ND	mg/L	10.0	10.0	1		05/19/21 08:19		
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		05/18/21 02:11	16887-00-6	
Fluoride		ND	mg/L	0.10	0.050	1		05/18/21 02:11	16984-48-8	
Sulfate		ND	mg/L	1.0	0.50	1		05/18/21 02:11	14808-79-8	



Project: YATES									
Pace Project No.: 92538834									
Sample: DUP-1	Lab ID: 9	2538834004	Collecte	ed: 05/13/2	1 00:00	Received: 05/	14/21 09:30 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical N	lethod: EPA 6	010D Pre	paration Me	thod: Ef	PA 3010A			
	Pace Analyt	ical Services	- Peachtre	e Corners, (	GA				
Calcium	71.6	mg/L	1.0	0.13	1	05/18/21 10:07	05/18/21 17:24	7440-70-2	
6020 MET ICPMS	Analytical M	lethod: EPA 6	020B Pre	paration Met	thod: EF	PA 3005A			
	Pace Analyt	ical Services	- Peachtre	e Corners, (	GΑ				
Antimony	0.00044J	mg/L	0.0030	0.00028	1	05/18/21 13:16	05/19/21 15:18	7440-36-0	В
Arsenic	ND	mg/L	0.0050	0.00078	1	05/18/21 13:16	05/19/21 15:18	7440-38-2	
Barium	0.015	mg/L	0.0050	0.00071	1	05/18/21 13:16	05/19/21 15:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	05/18/21 13:16	05/19/21 15:18	7440-41-7	
Boron	1.2	mg/L	0.040	0.0052	1	05/18/21 13:16	05/19/21 15:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	05/18/21 13:16	05/19/21 15:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	05/18/21 13:16	05/19/21 15:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	05/18/21 13:16	05/19/21 15:18	7440-48-4	
Lead	0.000040J	mg/L	0.0010	0.000036	1	05/18/21 13:16	05/19/21 15:18	7439-92-1	
Lithium	0.011J	mg/L	0.030	0.00081	1	05/18/21 13:16	05/19/21 15:18	7439-93-2	
Molybdenum	0.0040J	mg/L	0.010	0.00069	1	05/18/21 13:16	05/19/21 15:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	05/18/21 13:16	05/19/21 15:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	05/18/21 13:16	05/19/21 15:18	7440-28-0	
7470 Mercury	Analytical M	lethod: EPA 7	470A Pre	paration Met	hod: EF	PA 7470A			
	Pace Analyt	ical Services	- Peachtre	e Corners, (	GΑ				
Mercury	ND	mg/L	0.00020	0.000078	1	05/18/21 14:00	05/19/21 11:24	7439-97-6	
2540C Total Dissolved Solids	Analytical M	lethod: SM 25	540C-2011						
	Pace Analyt	ical Services	- Peachtre	e Corners, (	ЗA				
Total Dissolved Solids	383	mg/L	10.0	10.0	1		05/19/21 08:19		
300.0 IC Anions 28 Days	Analytical N	lethod: EPA 3	00.0 Rev 2	2.1 1993					
	Pace Analyt	ical Services	- Asheville						
Chloride	3.9	mg/L	1.0	0.60	1		05/18/21 02:24	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.050	1		05/18/21 02:24	16984-48-8	
Sulfate	154	mg/L	3.0	1.5	3		05/18/21 15:56	14808-79-8	
	-	0		-	-				

**REPORT OF LABORATORY ANALYSIS** 

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Project:	YATES											
Pace Project No.:	92538834											
QC Batch:	621064		Anal	ysis Metho	od:	EPA 6010D						
QC Batch Method:	EPA 3010A		Anal	ysis Descr	ription:	6010D ATL						
			Labo	oratory:		Pace Analyt	ical Servic	es - Peach	tree Corne	rs, GA		
Associated Lab Sa	mples: 92538834	001, 9253883400	2, 9253883	34003, 925	538834004							
METHOD BLANK:	3267639			Matrix: V	Vater							
Associated Lab Sa	mples: 92538834	001, 9253883400	2, 9253883	34003, 925	538834004							
			Bla	nk	Reporting							
Para	meter	Units	Res	ult	Limit	MDI	-	Analyzed	Qı	ualifiers		
Calcium		mg/L		ND	1	.0	0.13 0	5/18/21 15:	25			
LABORATORY CO	NTROL SAMPLE:	3267640										
			Spike	L	CS	LCS	% R	lec				
Para	meter	Units	Conc.	Re	sult	% Rec	Lim	its	Qualifiers			
Calcium		mg/L		1	1.1	107	7	80-120		_		
MATRIX SPIKE & I	MATRIX SPIKE DUF	PLICATE: 3267	641		326764	2						
			MS	MSD								
		92538933001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	er Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Calcium	mg/L	. 33100 ug/L	1	1	34.8	33.8	167	75	75-125	3	20	M1

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



Project:	YATES	6						
Pace Project No.:	92538	834						
QC Batch:	6211	35	Analysis Meth	nod:	EPA 6020B			
QC Batch Method:	EPA	3005A	Analysis Desc	cription:	6020 MET			
			Laboratory:		Pace Analytical Se	rvices - Peachtree	Corners, GA	
Associated Lab Sar	mples:	92538834001, 92538834002,	92538834003, 92	2538834004	-			
METHOD BLANK:	32680	34	Matrix:	Water				
Associated Lab Sar	mples:	92538834001, 92538834002,	92538834003, 92	2538834004				
			Blank	Reporting				
Parar	neter	Units	Result	Limit	MDL	Analyzed	Qualifiers	
Antimony		mg/L	0.00070J	0.003	0 0.00028	05/19/21 14:26		
Arsenic		mg/L	ND	0.005	0 0.00078	05/19/21 14:26		
Barium		mg/L	ND	0.005	0 0.00071	05/19/21 14:26		
Beryllium		mg/L	ND	0.0005	0 0.000046	05/19/21 14:26		
Boron		mg/L	ND	0.04	0 0.0052	05/19/21 14:26		
Cadmium		mg/L	ND	0.0005	0 0.00012	05/19/21 14:26		
Chromium		mg/L	ND	0.005	0 0.00055	05/19/21 14:26		
Cobalt		mg/L	ND	0.005	0 0.00038	05/19/21 14:26		
Lead		mg/L	ND	0.001	0 0.000036	05/19/21 14:26		
Lithium		mg/L	ND	0.03	0 0.00081	05/19/21 14:26		
Molybdenum		mg/L	ND	0.01	0 0.00069	05/19/21 14:26		
Selenium		mg/L	ND	0.005	0 0.0016	05/19/21 14:26		
Thallium		mg/L	ND	0.001	0 0.00014	05/19/21 14:26		

### LABORATORY CONTROL SAMPLE: 3268035

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Antimony	mg/L	0.1	0.10	105	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3268036					3268037							
		92538834001	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Мах	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Antimony Arsenic	mg/L mg/L	0.00052J ND	0.1 0.1	0.1 0.1	0.10 0.10	0.11 0.10	103 101	105 102	75-125 75-125	2 1	20 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 Pace Project No.: 92538834

MATRIX SPIKE & MATRIX SPIK	MSD	3268037										
		92538834001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Barium	mg/L	0.015	0.1	0.1	0.11	0.11	95	98	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.091	0.091	91	91	75-125	0	20	
Boron	mg/L	1.3	1	1	2.5	2.4	118	114	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	0.098	0.10	97	100	75-125	3	20	
Cobalt	mg/L	ND	0.1	0.1	0.098	0.10	98	102	75-125	4	20	
Lead	mg/L	0.000049J	0.1	0.1	0.096	0.097	96	97	75-125	1	20	
Lithium	mg/L	0.011J	0.1	0.1	0.10	0.10	91	92	75-125	1	20	
Molybdenum	mg/L	0.0042J	0.1	0.1	0.10	0.11	99	104	75-125	5	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.096	0.097	96	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.


# **QUALITY CONTROL DATA**

Project:	YATES													
Pace Project No.:	92538834													
QC Batch:	621085		Analy	sis Metho	d:	EPA 7470A								
QC Batch Method:	EPA 7470A		Analysis Description:			7470 Mercury								
			Labor	Laboratory: Pace Analytical Services - Peachtree						ers, GA				
Associated Lab Sa	mples: 92538834	001, 9253883400	02, 92538834	4003, 925	38834004									
METHOD BLANK:	3267704			Matrix: W	ater									
Associated Lab Sa	mples: 92538834	001, 9253883400	02, 92538834	4003, 925	38834004									
			Blan	k	Reporting									
Parameter		Units	Resu	ılt	Limit	MD	L	Analyzed	Q	ualifiers				
Mercury		mg/L		ND	0.0002	20 0.0	00078	05/19/21 10:	:53					
LABORATORY CO	NTROL SAMPLE:	3267705												
			Spike	LC	S	LCS	%	Rec						
Para	meter	Units	Conc.	Res	sult	% Rec	Lir	nits	Qualifiers					
Mercury		mg/L	0.002	5	0.0024	9	6	80-120		_				
MATRIX SPIKE & M	MATRIX SPIKE DUP	PLICATE: 3267	706		326770	7								
			MS	MSD					_					
Demonstra		92538834001	Spike	Spike	MS	MSD	MS	MSD	% Rec	000	Max	0		
Paramete		S Result	Conc.	Conc.	Result	Result	% Rec	% Rec	LIMITS	KPD	KPD	Qual		
Mercury			0.0005	0.0005	0 0000	0 0004	0	n ne	75 405	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.



# **QUALITY CONTROL DATA**

Project:	YATES						
Pace Project No.:	92538834						
QC Batch:	621303		Analysis M	ethod:	SM 2540C-20	11	
QC Batch Method:	SM 2540C-20	11	Analysis De	escription:	2540C Total D	issolved Solids	
			Laboratory	:	Pace Analytic	al Services - Pe	achtree Corners, G
Associated Lab Sa	mples: 925388	34001, 925388340	02, 92538834003,	92538834004			
METHOD BLANK:	3269201		Matrix	x: Water			
Associated Lab Sa	mples: 925388	34001, 925388340	02, 92538834003,	92538834004			
			Blank	Reporting			
Para	meter	Units	Result	Limit	MDL	Analy	zed Qualifie
Total Dissolved Sol	ids	mg/L	ND	D 10.	.0	10.0 05/19/21	08:18
LABORATORY CO	NTROL SAMPLE	: 3269202					
			Spike	LCS	LCS	% Rec	
Para	meter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Total Dissolved Sol	ids	mg/L	400	397	99	90-111	
SAMPLE DUPLICA	TE: 3269203						
_			92538698003	Dup		Max	
Para	meter	Units	Result	Result	RPD	RPD	Qualifiers
Total Dissolved Sol	ids	mg/L	56.0	) 71.	.0	24	10 D6
SAMPLE DUPLICA	TE: 3269204						
_			92539203003	Dup		Max	o ""
Para	meter	Units	Result	Result	RPD	RPD	Qualifiers
Total Dissolved Sol	ids	mg/L	76.0	96.	.0	23	10 D6

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:	YATES													
Pace Project No.:	925388	34												
QC Batch:	62093	8		Anal	ysis Metho	d:	EPA 300.0	Rev 2.1	1993					
QC Batch Method:	EPA 3	00.0 Rev 2.	1 1993	Analy	ysis Descri	ption:	300.0 IC Ar	nions						
				Labo	oratory:		Pace Analytical Services - Asheville							
Associated Lab Sa	imples:	925388340	01, 9253883400	02, 9253883	34003, 925	38834004								
METHOD BLANK:	326715	5			Matrix: W	ater								
Associated Lab Sa	mples:	925388340	01, 9253883400	02, 9253883	34003, 925	38834004								
				Blai	nk	Reporting								
Para	meter		Units	Res	ult	Limit	MD	L	Analyzed	Qı	ualifiers			
Chloride			mg/L		ND	1	.0	0.60	05/17/21 21	:42				
Fluoride			mg/L		ND	0.1	0	0.050	05/17/21 21	:42				
Sulfate		mg/L		ND	1	.0	0.50	05/17/21 21:	:42					
LABORATORY CC	ONTROL S	SAMPLE:	3267156											
				Spike	LC	S	LCS	%	Rec					
Para	meter		Units	Conc.	Res	sult	% Rec	Li	mits	Qualifiers				
Chloride			mg/L	5	50	49.6	9	9	90-110					
Fluoride			mg/L	2	.5	2.4	9	8	90-110					
Sulfate			mg/L	5	50	48.3	9	7	90-110					
MATRIX SPIKE & I	MATRIX S		LICATE: 3267	'157		326715	8							
				MS	MSD									
			92538495031	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max		
Paramete	ər	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual	
Chloride		mg/L	ND	50	50	50.6	50.6	10	01 101	90-110	0	10		
Fluoride		mg/L	ND	2.5	2.5	2.5	2.5	ę	99 98	90-110	0	10		
Sulfate		mg/L	ND	50	50	49.2	49.1	ę	98 98	90-110	0	10		
MATRIX SPIKE &	MATRIX S		LICATE: 3267	'159		326716	0							
				MS	MSD									
_			92538834001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max		
Paramete	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual	
Chloride		mg/L	4.0	50	50	54.1	55.3	10	00 103	90-110	2	10		
Fluoride		mg/L	0.12	2.5	2.5	2.3	2.4	8	39 90	90-110	2	10	M1	
Sulfate		mg/L	178	50	50	206	199	Ę	56 42	90-110	4	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.

# **REPORT OF LABORATORY ANALYSIS**

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



## QUALIFIERS

Project: YATES Pace Project No.: 92538834

#### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

**RPD** - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

#### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

- D6 The precision between the sample and sample duplicate exceeded laboratory control limits.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.



# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES Pace Project No.: 92538834

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92538834001	PZ-37D				
92538834001	PZ-37D	EPA 3010A	621064	EPA 6010D	621124
92538834002	FB-1	EPA 3010A	621064	EPA 6010D	621124
92538834003	EB-1	EPA 3010A	621064	EPA 6010D	621124
92538834004	DUP-1	EPA 3010A	621064	EPA 6010D	621124
92538834001	PZ-37D	EPA 3005A	621135	EPA 6020B	621237
92538834002	FB-1	EPA 3005A	621135	EPA 6020B	621237
92538834003	EB-1	EPA 3005A	621135	EPA 6020B	621237
92538834004	DUP-1	EPA 3005A	621135	EPA 6020B	621237
92538834001	PZ-37D	EPA 7470A	621085	EPA 7470A	621197
92538834002	FB-1	EPA 7470A	621085	EPA 7470A	621197
92538834003	EB-1	EPA 7470A	621085	EPA 7470A	621197
92538834004	DUP-1	EPA 7470A	621085	EPA 7470A	621197
92538834001	PZ-37D	SM 2540C-2011	621303		
92538834002	FB-1	SM 2540C-2011	621303		
92538834003	EB-1	SM 2540C-2011	621303		
92538834004	DUP-1	SM 2540C-2011	621303		
92538834001	PZ-37D	EPA 300.0 Rev 2.1 1993	620938		
92538834002	FB-1	EPA 300.0 Rev 2.1 1993	620938		
92538834003	EB-1	EPA 300.0 Rev 2.1 1993	620938		
92538834004	DUP-1	EPA 300.0 Rev 2.1 1993	620938		

			-		
67	D	ocument	Name:	(scup)	Document Revised: October 28, 2020
Pace Analytical	Sample Con	Document	t No.:	(JSCOR)	Issuing Authority:
	F-C	AR-CS-03	3-Rev.07		Pace Carolinas Quality Office
boratory receiving samples: Asheville Eden Greenwood	I 🗌 Hunters	ville 🗌	Ralei	gh 🗌	Mechanicsville Atlanta Kernersville
Sample Condition Upon Receipt G-COr 9. 01	power			Projec	WO#:92538834
Durier: Fed Ex U		; ::	90	ient	92538834
tody Seal Present? Yes No	Seals Intact?	☐Yes	DNO		Date/Initials Person Examining Contents: 19 5/14
king Material: □Bubble Wrap [ rmometer: □ IR Gun ID: <u>230</u>	Bubble Bags	Avone ce:	e □ 0 v√et □	Other Blue	Biological Jissue Frozen?
oler Temp: <u>212</u> Correction Add/Subtra	Factor: ± act (°C) ± 210	0,2	_		Temp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling proce has begun
DA Regulated Soil ( 🔲 N/A, water sample) samples originate in a quarantine zone within th Yes	e United States: C/	A, NY, or S(	C (check m	aps)?	Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes Comments/Discrepancy:
	[]War			1	
Samples Arrived within Hold Time?	Wes			2.	
Short Hold Time Analysis (<72 hr.)? Rush Turn Around Time Requested?	[_]Yes □]Yes	DINO		4.	
Sufficient Volume?				5.	
Correct Containers Used?	Difes			6,	
-Pace Containers Used?	Yes	No	□n/A		
Containers Intact?	<b>V</b> Yes	□No		7.	
Dissolved analysis: Samples Field Filtered?	☐ Yes	10 No	□n/A	8.	
Sample Labels Match COC?	Mes	□No	∐n/a	9.	
-Includes Date/Time/ID/Analysis Matrix:			,		
Headspace in VOA Vials (>5-6mm)? Trip Blank Present?	☐Yes ☐Yes	□No □No		10. 11.	
Trip Blank Custody Seals Present?	Yes	No			
COMMENTS/SAMPLE DISCREPANCY					Field Data Required? 🗌 Yes 🔲 No
				Lo	t ID of split containers:
IENT NOTIFICATION/RESOLUTION					
Person contacted:			Date/1	lime:	
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Project Manager SCURF Review:					Date:
Project Manager SCURF Review:					Date:

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Nate: 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.

				ADDITIONAL COMMENTS	SAMPLE ID Che Character per box. (AZ, Cali, Sample Ide must be unique PZ-3TD (0513Z1) EB-01 (0513Z1) DuP-01 (0513Z1) DuP-01 (0513Z1)		isted Due Date	c (770)3F4-6526 Fax	n, GA 30114	ss: 1070 Bridge Mill Ave	any: Georgia Power	n A red Client Information:	Pace Analytical
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Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

June 29, 2021

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

RE: Project: YATES RADS Pace Project No.: 92538831

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on May 14, 2021. 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,

Kein Hung

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR Lauren Coker, Georgia Pwer Geoffrey Gay, ARCADIS - Atlanta Kristen Jurinko Kelley Sharpe, ARCADIS - Atlanta Alex Simpson, Arcadis Samantha Thomas Maribel Vital





Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

### CERTIFICATIONS

Project: YATES RADS Pace Project No.: 92538831

#### 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 #: 9526 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 RADS Pace Project No.: 92538831

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92538831001	PZ-37D	Water	05/13/21 12:30	05/14/21 09:30
92538831002	FB-1	Water	05/13/21 11:30	05/14/21 09:30
92538831003	EB-1	Water	05/13/21 18:30	05/14/21 09:30
92538831004	DUP-1	Water	05/13/21 00:00	05/14/21 09:30



# SAMPLE ANALYTE COUNT

Project:	YATES RADS	
Pace Project No .:	92538831	

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92538831001	PZ-37D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92538831002 FB-1	EPA 9315	LAL	1	PASI-PA	
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92538831003	EB-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92538831004	DUP-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg



# SUMMARY OF DETECTION

Project: YATES RADS

Pace Project No.: 92538831

Lab Sample ID	Client Sample ID								
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers			
92538831001	PZ-37D								
EPA 9315	Radium-226	2.70 ± 0.530 (0.161)	pCi/L		06/25/21 10:34				
EPA 9320	Radium-228	C:83% T:NA 2.66 ± 0.740 (0.762) C:64%	pCi/L		06/07/21 11:16				
Total Radium Calculation	Total Radium	1:78% 5.36 ± 1.27 (0.923)	pCi/L		06/28/21 17:08				
92538831002	FB-1								
EPA 9315	Radium-226	0.0225 ± 0.220 (0.600) C:88% TNA	pCi/L		06/04/21 08:46				
EPA 9320	Radium-228	0.487 ± 0.440 (0.891) C:60%	pCi/L		06/07/21 11:16				
Total Radium Calculation	Total Radium	0.510 ± 0.660 (1.49)	pCi/L		06/21/21 20:12				
92538831003	EB-1								
EPA 9315	Radium-226	-0.0213 ± 0.200 (0.591) C:92% T:NA	pCi/L		06/04/21 08:46				
EPA 9320	Radium-228	0.247 ± 0.316 (0.669) C:68% T:85%	pCi/L		06/07/21 11:16				
Total Radium Calculation	Total Radium	0.247 ± 0.516 (1.26)	pCi/L		06/21/21 20:12				
92538831004	DUP-1								
EPA 9315	Radium-226	2.47 ± 0.489 (0.154) C:91% T:NA	pCi/L		06/25/21 10:34				
EPA 9320	Radium-228	1.70 ± 0.569 (0.728) C:63% T:78%	pCi/L		06/07/21 11:16				
Total Radium Calculation	Total Radium	4.17 ± 1.06 (0.882)	pCi/L		06/28/21 17:08				



## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS Pace Project No.: 92538831 Sample: PZ-37D Lab ID: 92538831001 Collected: 05/13/21 12:30 Received: 05/14/21 09:30 Matrix: Water PWS: Site ID: Sample Type: Act ± Unc (MDC) Carr Trac Parameters Method Units Analyzed CAS No. Qual Pace Analytical Services - Greensburg 2.70 ± 0.530 (0.161) EPA 9315 Radium-226 pCi/L 06/25/21 10:34 13982-63-3 C:83% T:NA Pace Analytical Services - Greensburg EPA 9320 2.66 ± 0.740 (0.762) Radium-228 pCi/L 06/07/21 11:16 15262-20-1 C:64% T:78% Pace Analytical Services - Greensburg **Total Radium** Total Radium 5.36 ± 1.27 (0.923) pCi/L 06/28/21 17:08 7440-14-4 Calculation



## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 9	2538831	
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Sample: FB-1	Lab ID: 92538	831002 Collected: 05/13/21 11:30	Received:	05/14/21 09:30 M	latrix: Water	
PWS:	Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg				
Radium-226	EPA 9315	0.0225 ± 0.220 (0.600) C:88% T:NA	pCi/L	06/04/21 08:46	13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.487 ± 0.440 (0.891) C:60% T:79%	pCi/L	06/07/21 11:16	15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.510 ± 0.660 (1.49)	pCi/L	06/21/21 20:12	7440-14-4	



## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project:YATES RADSPace Project No.:92538831

Sample: EB-1	Lab ID: 92538	<b>3831003</b> Collected: 05/13/21 18:30	Received:	05/14/21 09:30 N	latrix: Water	
PWS:	Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	-0.0213 ± 0.200 (0.591) C:92% T:NA	pCi/L	06/04/21 08:46	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.247 ± 0.316 (0.669) C:68% T:85%	pCi/L	06/07/21 11:16	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.247 ± 0.516 (1.26)	pCi/L	06/21/21 20:12	7440-14-4	



Matrix: Water

CAS No.

Qual

## **ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: YATES RADS Pace Project No.: 92538831 Sample: DUP-1 Lab ID: 92538831004 Collected: 05/13/21 00:00 Received: 05/14/21 09:30 PWS: Site ID: Sample Type: Parameters Method Act ± Unc (MDC) Carr Trac Units Analyzed Pace Analytical Services - Greensburg EPA 9315 2.47 ± 0.489 (0.154) Radium-226 pCi/L 06/25/21 10:34 13982-63-3 C:91% T:NA Pace Analytical Services - Greensburg

Radium-228	EPA 9320	1.70 ± 0.569 (0.728) C:63% T:78%	pCi/L	06/07/21 11:16 15262-20-1
	Pace Analytica	l Services - Greensburg		
Total Radium	Total Radium Calculation	4.17 ± 1.06 (0.882)	pCi/L	06/28/21 17:08 7440-14-4



## **QUALITY CONTROL - RADIOCHEMISTRY**

Project:	YATES RADS					
Pace Project No.:	92538831					
QC Batch:	449716	Analysis Method:	EPA 9320			
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 22	8		
		Laboratory:	Pace Analytical S	Services - Greensbur	g	
Associated Lab San	nples: 92538831	001, 92538831002, 92538831003, 92538831004	4			
METHOD BLANK:	2170082	Matrix: Water				
Associated Lab San	nples: 92538831	001, 92538831002, 92538831003, 92538831004	4			
Paran	neter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-228		0.470 ± 0.364 (0.712) C:62% T:85%	pCi/L	06/07/21 11:17		

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 RADS					
Pace Project No.:	92538831					
QC Batch:	450480	Analysis Method:	EPA 9315			
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radiun	n		
		Laboratory:	Pace Analytical Se	ervices - Greensburg	g	
Associated Lab San	nples: 92538831	001, 92538831002, 92538831003, 92538831004				
METHOD BLANK:	2173868	Matrix: Water				
Associated Lab San	nples: 92538831	001, 92538831002, 92538831003, 92538831004				
Paran	neter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-226		0.274 ± 0.327 (0.673) C:95% T:NA	pCi/L	06/04/21 08:45		

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 RADS Pace Project No.: 92538831

#### 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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.



# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	YATES RADS
Pace Project No .:	92538831

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92538831001	PZ-37D	EPA 9315	450480		
92538831002	FB-1	EPA 9315	450480		
92538831003	EB-1	EPA 9315	450480		
92538831004	DUP-1	EPA 9315	450480		
92538831001	PZ-37D	EPA 9320	449716		
92538831002	FB-1	EPA 9320	449716		
92538831003	EB-1	EPA 9320	449716		
92538831004	DUP-1	EPA 9320	449716		
92538831001	PZ-37D	Total Radium Calculation	454327		
92538831002	FB-1	Total Radium Calculation	453438		
92538831003	EB-1	Total Radium Calculation	453438		
92538831004	DUP-1	Total Radium Calculation	454327		

~	D	ocument	Name:		Document Revised: October 28, 2020
Pace Analytical	Sample Con	dition Up	on Receip	t(SCUR)	Page 1 of 2
A accretatytical	F-C	AR-CS-03	it No.: 3-Rev.07		Pace Carolinas Quality Office
boratory receiving samples: Asheville Eden Greenwoo	d 🗌 Hunters	ville 🗌	] Ralei	gh 🗌	Mechanicsville Atlanta Kernersvil
Sample Condition Upon Receipt G-COV 9. 01	power			Projec	, WO# : 92536651
Commercial		er:		nent	92538831
tody Seal Present? Yes	Seals Intact?	<b>∐</b> Yes	Dire	5	Date/Initials Person Examining Contents: 州 データ
cking Material: Bubble Wrap ermometer: IR Gun ID: 230	Bubble Bags		e 🗌 ( hvvet 🗆	Other Blue	Biological Jissue Frozen?
vler Temp: <u>212</u> Correction Add/Subt	Factor: + ract (°C) + 2.0	0,2	_		Temp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling p has begun
DA Regulated Soil (  N/A, water sample) samples originate in a quarantine zone within t Yes	he United States: CA	A, NY, or S	C (check m	iaps)?	Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes Comments/Discrepancy:
Chain of Custody Present?	Fres			1.	
Samples Arrived within Hold Time?	Dies			2.	
Short Hold Time Analysis (<72 hr.)?	☐Yes	Dino		3.	
Rush Turn Around Time Requested?	Yes	DINO		4.	
Sufficient Volume?	Pres	No		5.	
Correct Containers Used? -Pace Containers Used?	Pres Ves		□n/a □n/a	6,	
Containers Intact?	Ves	No		7.	
Dissolved analysis: Samples Field Filtered?	Yes	DNo		8.	
Sample Labels Match COC?	Ja√ ∂a√	□No	∐N/A	9.	
-includes bace interior Analysis Matrix			de	10	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
Trip Blank Present?	⊥ Yes			11.	
Trip Blank Custody Seals Present?	Yes	No			Field Data Required?
IENT NOTIFICATION/RESOLUTION				Lot	ID of split containers:
			Date/1	Time:	
Person contacted:			_ Date/1	lime: _	
Project Manager SCURF Review:			_ Date/1	fime: _	Date:

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E a	*Boti	ns: V tom	0A, Ca half	oliforr of b	n, TO ox is	to li	and G <b>st กเ</b>	rease, umb	, DRO er of	/8015 bot	(wate tles	r) DO	C, LLF	g				CL	IEN	IT :	GA-(	GA P	one	r Dat		06/	07/2	21
ternat	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) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-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 HCI (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 Na252O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 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 Sterile Plastic (N/A - lab)	GPIN	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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7	$\left \right\rangle$				$\overline{)}$	$\langle \rangle$	$\left( \right)$	$\leftarrow$	┥		$\langle \rangle$		(	$\langle \cdot \rangle$	K	\ 		 						$\mathbf{k}$	$\langle \rangle$	<b>.</b>	-	<u> </u>
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12	$\left\{ \right\}$	┥			$\left \right\rangle$	$\left\{ \right\}$	$\left\{ \right\}$	$\left\{ \right\}$	4		$\left( \right)$	-	$\left\langle \right\rangle$	$\left\{ \right\}$	K	<u>\</u>	1	<u> </u>	1	<u> </u>		+		$\left  \right\rangle$	$\left\{ \right\}$	+	+	
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Nate: 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.

	K	ADDITIONAL COMMENTS		Dup-01 (051321)	(25150) (05152)	128-01 (05:521)	PZ-37D (05134)	Sample ids must be unique	MATRIXO CODED		isted Due Date: Project #:	r /770/344 6596 Fax Prived Na	SS: 1070 Binge Mil Ave Juoyy Iu:	any: Georgia Power Report To:	red Cilent Information: Required	Face Analytical	2
	May	RELA	+	 _	_			MATRIX CODE (see valid cod	es to left)			Order #		Bec	Project		l
	8	IQUIS						SAMPLE TYPE (G=GRAB C=	COMP)		Igit	Vala	1	ky Ste	Infon		l
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PLER NAME PRINT Name SIGNATURE	CB2	ATHON		 	30	8	8.	El DATE	NLECTED							The Ch	
of SAMPLER	2/11/5	DATE						SAMPLE TEMP AT COLLECTION								ain-of-Cus	
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iealedD SocierD Y/N)	5	DND(TIONS									Contraction of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the loc				ç		
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TAR\_60915\_W.xls Total Alpha Radium (ENV-FRM-GBUR-0142 R0).xls

ymul8/21

1 of 1

6

Comments:

Pace Analytical www.peededes.com	Ra-336		Analyst Must Manually Enter All Fields Highlighted in Yello	<u>ow.</u>	
Analyst Date:	LAL 6/4/2021		Sample Matrix Spike Control Assessment MS/ Sample Collection Date:	S/MSD 1	MS/MSD 2
Worklist Matrix:	60915 DW		Sample I.D. Sample MS I.D.		
Method Blank Assessment			Sample MSD I.D.		
MB Sample ID	2173868		MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
MB concentration:	0.274		Spike Volume Used in MS (mL):		
M/B Counting Uncertainty:	0.325		Spike Volume Used in MSD (mL): MS Alicut (L. g. F):		
MB Numerical Performance Indicator	1.66		MS Target Conc.(pCi/L, g, F):		
MB Status vs Numerical Indicator:	N/A		MSD Tarnet Conc. (nCiA or EV		
			MS Spike Uncertainty (calculated):		
Laboratory Control Sample Assessment	CSD (Y or N)?	Y	MSD Spike Uncertainty (calculated):		
Count Date:	6/4/20/21	6/4/2021	Sample Result Counting Uncertainty (pCi/L_g. F):		
Spike I.D.:	19-033	19-033	Sample Matrix Spike Result		
Decay Corrected Spike Concentration (pCi/mL):	24.037	24.037	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Aliquid Volume (L. d. F):	0.10	0,10	Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result Counting Uncertainty (pCI/L. g. F):		
Target Conc. (pCi/L, g, F):	4.738	4.794	MS Numerical Performance Indicator:		
Uncertainty (Calculated):	0.057	0.058	MSD Numerical Performance Indicator:		
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.897	0.930	MSD Percent Recovery:		
Numerical Performance Indicator:	-0.18	0.39	MS Status vs Numerical Indicator:		
Percent Recovery:	98.30%	1U3.84%	MSD Status vs Nutrierical indicator:		
Status vs Numerical Indicator:	Pass	Pass	MSD Status vs Recovery		
Upper % Recovery Limits:	125%	125%	MS/MSD Upper % Recovery Limits:		
	0,01	1070	Mis/Mis/ Lower // Necovery Linnis.		
Duplicate Sample Assessment			Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.:	LCS60915		Sample I.D.		
Sample Result (pCi/L, g, F):	4.657		Sample MSD I.D.		
Sample Result Counting Uncertainty (pCi/L, g, F):	0,897		Sample Matrix Spike Result:		
Sample Duplicate Result (pCi/L, g, F):	4.978		Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Are sample and/or duplicate results below RL?	NO		Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator.	-0.487		Duplicate Numerical Performance Indicator:		
(pased on the LCO/LCOD) Felcent Recoveries/ publicate RFD. Dublicate Status vs Numerical Indicator:	N/A		MS/ MSD Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:	Pass		MS/ MSD Duplicate Status vs RPD:		
## Evaluation of dunlicate precision is not applicable if either the sa	mole or dunlicate r	esults are helow the			
## Evaluation of dublicate precision is not applicable if either the se	imple or duplicate r	esuits are below ind			

**Quality Control Sample Performance Assessment** 

Pace Analytical Services, Inc. Total Alpha Radium QC Assessment

Page 17 of 18



Comments:

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

Bana Analytical			· · · · · · · · · · · · · · · · · · ·		
www.pacedaba.com Test	Ra-228		Analyst must manually chter An Fleids righnighted in Tehow.		
Analyst	JC2		Sample Matrix Spike Control Assessment MS/MSI	SD 1	MS/MSD 2
Date:	6/3/2021		Sample Collection Date:		
Worklist	60773		Sample I.D.		
Matrix:	W I				
Method Blank Assessment			Spike 1.D.:		
MB Sample ID	2170082		MS/MSD Decay Corrected Spike Concentration (pCi/mL):	-	
MB concentration:	0.470		Spike Volume Used in MS (mL):		
M/B 2 Sigma CSU:	0.364		Spike Volume Used in MSD (mL): MS Aliciust /1 or E):		
MR Numerical Performance Indicator	2 53		MS Target Conc. (pCi/L, g, F):		
MB Status vs Numerical Indicator:	Warning		MSD Aliquot (L, g, F):		
MB Status vs. MDC:	Pass		MSD Target Conc. (pCi/l., g, F):		
aboratory Control Sample Assessment	CSD /Y or N/2	Y	MSD Spike Uncertainty (concurrent);		
	LCS60773	LCSD60773	Sample Result:		
Count Date:	6/7/2021	6/7/2021	Sample Result 2 Sigma CSU (pCi/L, g, F):		
	37 407	37 407	Matrix Spike Result 2 Sigma CSU (nCi/L or F):		
Volume Used (mL):	0.10	0.10	Sample Matrix Spike Duplicate Result:		
Aliquot Volume (L, g, F): Tarnet Conc. (bCi/L, g, F):	0.816	0.852 4.392	Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator:		
Uncertainty (Calculated):	0.225	0.215	MSD Numerical Performance Indicator:		
Result (pCi/L, g, F):	4.404	4.759	MSD Percent Recovery:		
Numerical Performance Indicator:	-0.34	0.67	MS Status vs Numerical Indicator:		
Percent Recovery:	96.08%	108.37%	MSD Status vs Numerical Indicator:		
Status vs Numerical Indicator:	N/A	N/A	MS Status vs Recovery:		
Status vs Recovery:	Pass	Pass	MSD Status vs Recovery:		
Upper % Recovery Limits: Lower % Recovery Limits:	135% 60%	135% 60%	MS/MSU Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		
			Matrix SpikoMatrix Spika Duplicate Sample Assassment		
Dubitrate Gallible Assessment					
Sample I.D.:	LCS60773	Enter Duplicate	Sample I.D.		
Sample Desuit (nCi/l or EV)	4 404	other than	Sample MSD 1.D.		
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.013	LCS/LCSD in	Sample Matrix Spike Result:		
Sample Duplicate Result (pCi/L, g, F):	4.759	the space below.	Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.051		Sample Matrix Spike Duplicate Result 3 Sinna CSU (aCi/L a EV		
Dunitate Numerical Deformance Indicator	_0 477		Dunlicate Numerical Performance Indicator		
Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	12.02%		(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
Duplicate Status vs Numerical Indicator:	Pass		MS/ MSD Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD: % RPD Limit:	Pass 36%		MS/ MSU Duplicate Status vs KPD: % RPD Limit		

**Quality Control Sample Performance Assessment** 

Arcadis U.S., Inc.

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# **APPENDIX B**

Field Sampling Forms (February and March 2021)

2021 Semiannual Groundwater and Corrective Action Report Plant Yates AP-3, A, B, B' and R6 CCR Landfill Newnan, GA February 2021 Scan Event

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis

#### Instrument Calibration Date: 2/08/21 Time: 14:30

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	NA
Conductivity	us/cm	8000	8000	8000	NA
pН	S.U.	4.00	4.00	4.00	NA
pН	S.U.	7.00	7.00	7.00	NA
pН	S.U.	10.00	10.00	10.00	NA
ORP	mV	232.0	232.0	232.0	NA

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	LaMotte SN 6012-4015
0.0	NTU	0.00	0.00	NA
10.0	NTU	10.00	10.00	NA

#### Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis

# Instrument Calibration

Date: 2/09/21 Time: 7:00

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pН	S.U.	4.00	4.00	4.00	4.00
pН	S.U.	7.00	7.00	7.00	7.00
pН	S.U.	10.00	10.00	10.00	10.00
ORP	mV	232.0	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	LaMotte SN 6012-4015
0.0	NTU	0.00	0.00	NA
10.0	NTU	10.00	10.00	NA

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis

# Instrument Calibration

Date: 2/09/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pН	S.U.	4.00	4.00	4.00	4.00
pН	S.U.	7.00	7.00	7.00	7.00
pН	S.U.	10.00	10.00	10.00	10.00
ORP	mV	232.0	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	LaMotte SN 6012-4015
0.0	NTU	0.00	0.00	NA
10.0	NTU	10.00	10.00	NA

#### Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis

#### Instrument Calibration Date: 2/10/21 Time: 7:00

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pН	S.U.	4.00	4.00	4.00	4.00
pН	S.U.	7.00	6.98	6.98	6.98
pН	S.U.	10.00	10.00	10.00	10.00
ORP	mV	229	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	Geotech SN 18081847
0.0	NTU	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00

#### Date: 2/10/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pН	S.U.	4.00	4.00	4.00	4.00
pН	S.U.	7.00	6.98	6.98	6.98
pН	S.U.	10.00	10.00	10.00	10.00
ORP	mV	228	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	Geotech SN 18081847
0.0	NTU	NA	0.00	NA
10.0	NTU	NA	10.00	NA

#### Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis

#### Instrument Calibration Date: 2/11/21 Time: 7:00

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pН	S.U.	4.00	4.00	4.00	4.00
pН	S.U.	7.00	6.98	6.98	6.98
pН	S.U.	10.00	10.00	10.00	10.00
ORP	mV	229	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	Geotech SN 18081847
0.0	NTU	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00

#### Date: 2/11/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pН	S.U.	4.00	4.00	4.00	4.00
pН	S.U.	7.00	6.98	6.98	6.98
pН	S.U.	10.00	10.00	10.00	10.00
ORP	mV	228	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	Geotech SN 18081847
0.0	NTU	NA	0.00	NA
10.0	NTU	NA	10.00	NA

#### Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate



Client:		Georgia Power				
Project Location:		AMA AP-3, A, B and B'				
Date:		2/8/2021				
Sampler:		Peter Argyakis				
Equipment:		water probe				
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments	
PZ-06D	2/8/2021	11:19:00	21.72	134.02		
YGWA-6S	2/8/2021	11:21:00	17.54	39.87		
YGWA-6I	2/8/2021	11:22:00	18.90	69.03		
YGWA-17S	2/8/2021	11:25:00	11.85	39.85		
YGWA-18S	2/8/2021	11:34:00	19.55	39.97		
YGWA-18I	2/8/2021	11:38:00	22.90	79.97		
PZ-48	2/8/2021	11:50:00	19.74	58.73		
YGWC-49	2/8/2021	11:55:00	31.72	78.53		
PZ-35	2/8/2021	12:01:00	11.25	50.01		
YAMW-1	2/8/2021	12:02:00	11.07	69.93		
YGWC- 24SA	2/8/2021	12:35:00	28.00	57.00		
PZ-24IA	2/8/2021	12:47:00	28.25	89.85		
YGWA-20S	2/8/2021	13:22:00	11.19	29.52		
YGWA-21I	2/8/2021	13:24:00	31.21	79.90		
PZ-05S	2/8/2021	13:40:00	18.69	41.94		
YGWA-5I	2/8/2021	13:43:00	18.75	58.94		
YGWA-5D	2/8/2021	13:44:00	21.77	129.13		
PZ-04S	2/8/2021	13:47:00	24.13	33.33		
YGWA-4I	2/8/2021	13:49:00	22.62	48.81		



Client: Project Location:		Georgia Power				
		AMA R6 CCR Landfill				
Date:		2/8/2021				
Sampler:		Peter Argyakis				
Equipment:		water probe				
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments	
YGWC-42	2/8/2021	09:28:00	28.19	59.76		
YAMW-3	2/8/2021	09:32:00	35.46	91.44		
PZ-51	2/8/2021	09:40:00	7.36	36.00		
YGWC-43	2/8/2021	09:46:00	16.36	79.66		
YAMW-4	2/8/2021	09:55:00	31.09	96.55		
YGWC-41	2/8/2021	09:57:00	27.44	67.32		
YGWA-40	2/8/2021	10:02:00	22.93	48.23		
PZ-37	2/8/2021	10:08:00	12.55	49.78		
YGWA-39	2/8/2021	10:16:00	17.37	68.59		
YAMW-5	2/8/2021	10:27:00	13.48	90.34		
YGWC-38	2/8/2021	10:29:00	30.75	50.59		
YAMW-2	2/8/2021	10:49:00	20.79	46.48		
YGWC-36A	2/8/2021	12:05:00	9.58	51.20		


Page 1 of 1

Client:		Georgia Power							
Project Locat	ion:		AMA AP-3, A, B and B'						
Date:		2/8/2021							
Sampler:		Katie Pupkiewicz							
Equipment:				water probe					
Well	Date	Time	Time         Depth to Water (ft)         Well Depth (ft)         Comments						
YGWC-23S	YGWC-23S 2/8/2021 10:42:00 16.95 38.91 Well casing damage								



Project Number	30053437	Well ID	PZ-37			Date	02/09/2021
Project Location	AMA R6 CCR Landfill		Weather(°F)	Cloudy 55°F			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	39.28	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	12.56	Total Depth (ft- bmp)	49.78	Water Column(ft)	37.22	Gallons in Well	6.05
MP Elevation	760.78	Pump Intake (ft- bmp)	45	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:30	Well Volumes Purged	0.26	Sample ID	PZ-37(020921)	Sampled by	Katie Pupkiewicz
Purge Start	08:53	Gallons Purged	1.59	Replicate/ Code No.		Color	Clear

#### Purge End 09:25

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)
08:53:22	00:00	200	12.91	6.79	1268.16	0.68	5.53	15.7	176.21
08:58:22	05:00	200	12.92	5.81	1252.83	0.09	0.87	16.4	175.01
09:03:22	10:00	200	12.91	5.64	1245.70	0.00	1.61	16.6	173.36
09:08:22	15:00	200	12.92	5.58	1252.33	94.66	4.36	16.4	172.90
09:13:22	20:00	200	12.92	5.51	1269.87	0.10	0.63	16.5	173.59
09:18:22	25:00	200	12.92	5.45	1280.76	0.17	0.76	16.6	173.42
09:23:22	30:00	200	12.92	5.42	1286.39	0.20	0.88	16.8	173.47

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments: La Motteturbidity readings in five minute intervals in accordance with the VuSitu purge log
1.16
0.85
1.14
0.62

#### Well Casing Volume Conversion

0.73 0.67 0.52

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				

ft-bmp = feet below measuring point in = inches ft = feet mL/min = milliliters per minute mS/cm = milliSiemens per centimeterNTU = Nephelometric Turbidity Unit mg/L = milligrams per liter  $\mu S/cm = microSiemens per centimeters$ 



Project Number	30052922	Well ID	YGWA-4I			Date	02/09/2021
Project Location	AMA AP-3, A, B and B'		Weather(°F)	52.7 degrees F	and Cloudy. The wind	is blowing unde	efined at 0.0 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	38.51	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	22.61	Total Depth (ft- bmp)	48.81	Water Column(ft)	26.2	Gallons in Well	4.26
MP Elevation	784.21	Pump Intake (ft- bmp)	45	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:33	Well Volumes Purged	0.35	Sample ID	YGWA-4I	Sampled by	Becky Steever
Purge Start	09:00	Gallons Purged	1.49	Replicate/ Code No.		Color	Clear

Purge End 09:47

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:00:56	00:00	125	24.82	7.92	1.21	0.00	10.79	12.4	231.36
09:05:56	05:00	125	24.83	6.17	0.07	0.31	10.24	13.0	221.85
09:10:56	10:00	125	24.84	6.44	0.14	0.05	10.45	13.0	228.38
09:15:56	15:00	125	24.85	6.55	0.25	0.07	10.39	13.1	230.12
09:20:56	20:00	125	24.86	6.13	122.92	1.15	2.87	14.5	223.37
09:25:56	25:00	125	24.9	6.15	155.73	1.25	2.28	14.8	223.99
09:30:56	30:00	125	24.91	6.13	151.54	1.37	2.38	14.8	224.27
09:35:56	35:00	125	24.93	6.10	147.32	1.27	2.55	14.8	224.72
09:40:56	40:00	125	24.93	6.09	143.34	0.97	2.70	14.9	225.06
09:45:56	45:00	125	24.93	6.06	140.86	0.87	2.85	14.9	225.33

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Fluoride	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3

Comments: LaMotte turbidity readings taken concurrently on stand alone meter at each five minute interval: 0.83, 0.26, 0.55, 1.32, 1.22, 01.31, 1.26, 1.01, & 0.98 NTU.

Well Casing Volun	ne Conversion				
Well diameter (inches) = gallons per foot		1 = 0.04 1.5 = 0.09 2.5 = 1.25 = 0.06 2 = 0.16 3 = 0	0.26 3.5 = 0.50 6 = 1.47 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	-
					-
ft-bmp = feet below	measuring point	mS/cm = milliSiemens pe	er centimeter	mV = millivolts	

in = inches ft = feet mL/min = milliliters per minute mS/cm = milliSiemens per centimeter NTU = Nephelometric Turbidity Unit mg/L = milligrams per liter  $\mu$ S/cm = microSiemens per centimeters



Project Number	30052922	Well ID	YGWA-17S			Date	02/09/2021
Project Location	AMA AP-3, A, B and B'		Weather(°F)	62.2 degrees F mph.	and Mostly Cloudy. Th	ne wind is blowi	ng undefined at 0.0
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	29.65	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	11.83	Total Depth (ft- bmp)	39.85	Water Column(ft)	28.02	Gallons in Well	4.55
MP Elevation	783.05	Pump Intake (ft- bmp)	35	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	11:15	Well Volumes Purged	0.29	Sample ID	YGWA-17S	Sampled by	Becky Steever
Purge Start	10:40	Gallons Purged	1.32	Replicate/ Code No.		Color	Clear

Purge End 11:12

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:40:27	00:00	160	11.83	6.13	0.07	0.04	10.54	13.3	202.00
10:45:27	05:00	160	12.39	5.62	70.73	0.97	7.65	16.2	210.13
10:50:27	10:00	160	12.39	5.61	70.17	3.48	7.46	16.5	214.90
10:55:27	15:00	160	12.4	5.61	61.83	6.45	7.18	16.6	219.69
11:00:27	20:00	160	12.41	5.63	85.95	3.30	2.03	17.0	219.29
11:05:27	25:00	160	12.41	5.63	88.65	3.77	1.96	17.1	220.36
11:10:27	30:00	160	12.41	5.62	89.22	3.29	1.92	17.0	220.37

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments: LaMotte turbidity readings taken concurrently on stand alone meter at each five minute interval. All readings below 5.0 NTU. Reading at time of sampling 0.43 NTU

#### 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:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA



Project Number 30052922 Well ID YGWA-18S Date 02/09/2	021
Project Location       AMA AP-3, A, B and B'       Weather(°F)       60.6 degrees F and Cloudy. The wind is blowing N/NW at 3.4	mph.
Measuring Pt. DescriptionTop of Inner Casing Setting (ft-bmp)Screen 29.97Casing Diameter (in)Well Casing MaterialPVC	
Static Water Level (ft-bmp)19.51Total Depth (ft- bmp)39.97Water Column(ft)20.46Gallons in Well3.32	
MP Elevation         790.57         Pump Intake (ft- bmp)         35         Purge Method         Low-Flow         Sample Method         Low-Flow	w
Sample Time         13:25         Well Volumes Purged         0.47         Sample ID         YGWA-18S         Sampled by         Becky	Steever
Purge Start12:47Gallons Purged1.56Replicate/ Code No.ColorClear	

#### Purge End 13:23

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)
12:47:58	00:00	200	19.51	6.15	0.06	9.58	8.01	22.6	186.45
12:52:58	05:00	200	20.42	5.52	59.53	15.02	4.85	18.4	191.97
12:57:58	10:00	155	20.58	5.42	62.74	12.20	2.19	18.8	204.03
13:02:58	15:00	155	20.32	5.40	62.65	6.77	1.77	19.2	208.00
13:07:58	20:00	155	20.35	5.38	63.23	5.86	1.37	18.8	213.62
13:12:58	25:00	155	20.37	5.40	64.32	7.06	1.34	19.5	216.24
13:17:58	30:00	155	20.38	5.42	64.09	4.89	1.27	20.4	217.41
13:22:58	35:00	155	20.38	5.43	64.60	5.84	1.14	21.5	219.24

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments: LaMotte turbidity readings taken concurrently on stand alone meter at each five minute interval: 5.63, 6.77, 6.32, 5.56, 4.88, 7.44, 3.22, 4.76

#### 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		
	·			

mS/cm = milliSiemens per centimeter NTU = Nephelometric Turbidity Unit mg/L = milligrams per liter µS/cm = microSiemens per centimeters



Project Number	30052922	Well ID	YGWA-18I			Date	02/09/2021
Project Location	AMA AP-3, A, B and B'		Weather(°F)	67.6 degrees F	and Cloudy. The wind	is blowing S at	4.7 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.67	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	22.85	Total Depth (ft- bmp)	79.97	Water Column(ft)	57.12	Gallons in Well	9.28
MP Elevation	790.57	Pump Intake (ft- bmp)	75	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:20	Well Volumes Purged	0.13	Sample ID	YGWA-18I	Sampled by	Becky Steever
Purge Start	13:55	Gallons Purged	1.19	Replicate/ Code No.		Color	Clear

Purge End 14:18

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:55:53	00:00	200	23.01	6.75	102.78	0.51	7.78	17.6	215.66
14:00:53	05:00	200	23.04	6.27	108.41	1.50	3.56	18.7	222.91
14:05:53	10:00	200	23.08	6.15	98.29	1.76	3.67	18.5	225.72
14:10:53	15:00	200	23.09	6.13	96.33	0.44	3.76	18.4	225.49
14:15:53	20:00	200	23.11	6.12	98.09	0.95	3.81	18.2	225.10

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

LaMotte turbidity readings (time=NTU) 1434=3.22; 1439=3.67; 1444=4.03; 1449=3.99; 1454=3.71 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 Completion: NA

Well Locked at Departure:

Key Number To Well: NA

mS/cm = milliSiemens per centimeter NTU = Nephelometric Turbidity Unit mg/L = milligrams per liter µS/cm = microSiemens per centimeters



Project Number	30052922	Well ID	YGWC-49			Date	02/09/2021
Project Location	AMA AP-3, A, B and B	1	Weather(°F)	66.7 degrees F mph.	and Mostly Cloudy. TI	he wind is blowi	ing undefined at 0.0
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	68.03	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	32.72	Total Depth (ft- bmp)	78.53	Water Column(ft)	45.81	Gallons in Well	7.44
MP Elevation	782.73	Pump Intake (ft- bmp)	73	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	15:15	Well Volumes Purged	0.10	Sample ID	YGWC-49	Sampled by	Becky Steever
Purge Start	14:53	Gallons Purged	0.77	Replicate/ Code No.		Color	Clear

Purge End 15:10

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)
14:53:40	00:00	160	33.03	5.97	248.54	0.79	3.98	18.7	-15.60
14:58:40	05:00	160	33.28	5.84	243.89	0.48	2.39	18.6	52.23
15:03:40	10:00	160	33.37	5.81	246.84	0.44	2.29	18.4	84.56
15:08:40	15:00	160	33.41	5.79	249.59	0.39	2.37	18.4	103.63

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments: LaMotte turbidity readings (time, NTU) 1453, 1.20 1458, 0.88 1503, 0.65 1508, 0.59

#### 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

mS/cm = milliSiemens per centimeterNTU = Nephelometric Turbidity Unit mg/L = milligrams per liter  $\mu S/cm = microSiemens per centimeters$ 



Project Number	30052922	Well ID	YGWA-21I			Date	02/09/2021
Project Location	AMA AP-3, A, B and B'		Weather(°F)	67.6 degrees F	and Cloudy. The wind	is blowing S at	4.7 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.6	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	32	Total Depth (ft- bmp)	79.9	Water Column(ft)	47.9	Gallons in Well	7.78
MP Elevation	783.7	Pump Intake (ft- bmp)	75	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	15:50	Well Volumes Purged	0.08	Sample ID	YGWA-21I	Sampled by	Becky Steever
Purge Start	15:48	Gallons Purged	0.66	Replicate/ Code No.		Color	Clear

Purge End 16:05

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)
15:48:26	00:00	200	32	7.19	157.96	8.15	8.83	17.9	83.27
15:53:26	05:00	100	35.55	6.95	167.86	0.38	2.83	17.9	-53.34
15:58:26	10:00	100	35.43	6.92	166.84	0.92	1.21	17.9	-58.74
16:03:26	15:00	100	35.33	6.95	160.22	0.33	9.47	17.8	-53.31

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments:	LaMotte turb	bidity reading	gs (time=NTU)
	1548=1.26,	1553=0.56,	1558=0.49, 1603=0.44

#### 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	Key Number To Well: NA

mS/cm = milliSiemens per centimeter NTU = Nephelometric Turbidity Unit mg/L = milligrams per liter µS/cm = microSiemens per centimeters



Project Number	30053437	Well ID	YGWA-39			Date	02/10/2021
Project Location	AMA R6 CCR Landfill		Weather(°F)	It is Fog/Mist. T	he wind is blowing E/N	IE at 3.4 mph.	54°
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	58.09	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	17.28	Total Depth (ft- bmp)	68.59	Water Column(ft)	51.31	Gallons in Well	8.34
MP Elevation	818.19	Pump Intake (ft- bmp)	63	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:30	Well Volumes Purged	0.14	Sample ID	YGWA-39	Sampled by	Katie Pupkiewicz
Purge Start	08:58	Gallons Purged	1.19	Replicate/ Code No.		Color	Clear

#### Purge End 09:26

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)
08:58:13	00:00	160	17.57	9.40	185.55	0.20	5.25	14.9	117.79
09:03:13	05:00	160	17.59	7.91	262.94	0.05	0.92	16.2	98.60
09:08:13	10:00	160	17.65	6.12	270.94	0.05	0.23	16.7	92.74
09:13:13	15:00	160	17.66	5.88	272.85	0.10	0.16	16.8	92.57
09:18:13	20:00	160	17.66	5.82	268.67	0.12	0.12	17.0	92.67
09:23:13	25:00	160	17.67	5.80	267.91	0.16	0.13	17.2	92.12

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log
1.08
5.79
0.45
0.32
3.92

#### Well Casing Volume Conversion

0.73

allons per foot 1 = 0 1.25	0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65	
	Well Locked at Arrival:	
	Well Locked at Departure:	_
	Key Number To Well: NA	
	allons per foot 1 = 0 1.25	allons 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 Locked at Arrival:         Well Locked at Arrival:         Well Locked at Departure:         Key Number To Well:

 $\begin{array}{l} mS/cm = milliSiemens \ per \ centimeter \\ NTU = Nephelometric \ Turbidity \ Unit \\ mg/L = milligrams \ per \ liter \\ \mu S/cm = microSiemens \ per \ centimeters \end{array}$ 



Project Number	30053437	Well ID	YGWA-40			Date	02/10/2021
Project Location	AMA R6 CCR Landfill		Weather(°F)	Sunny and 65°F	=		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	37.73	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	22.92	Total Depth (ft- bmp)	48.23	Water Column(ft)	25.31	Gallons in Well	4.11
MP Elevation	815.73	Pump Intake (ft- bmp)	42	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	10:50	Well Volumes Purged	0.48	Sample ID	YGWA-39	Sampled by	Katie Pupkiewicz
Purge Start	10:10	Gallons Purged	1.98	Replicate/ Code No.	FB-01(021021)	Color	Clear

#### Purge End 10:46

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:10:23	00:00	200	23.52	6.13	84.39	0.27	8.94	16.9	94.30
10:15:23	05:00	200	23.71	5.46	80.20	0.17	8.29	18.3	86.49
10:20:23	10:00	200	23.7	5.37	78.37	0.17	8.36	18.5	91.07
10:25:23	15:00	200	23.68	5.30	80.89	0.22	8.25	18.2	94.18
10:30:23	20:00	200	23.68	5.22	81.73	0.25	8.18	17.9	121.25
10:35:23	25:00	200	23.68	5.16	119.86	0.23	6.14	17.5	121.99
10:40:23	30:00	200	23.68	5.13	119.19	0.21	4.11	17.5	125.84
10:45:23	35:00	200	23.67	5.19	118.93	0.23	4.10	17.6	123.45

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log 0.33 0.04 0.09

0.07 0.00 0.24 0.20 0.24

#### 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:	
ft.hmp - feet below measuring point	mS/cm – milliSigmans par cantimeter	m = millivolte
in = inches	NTU = Nephelometric Turbidity Unit	°F = degrees Fahre

ft = feet mL/min = milliliters per minute mg/L = milligrams per liter µS/cm = microSiemens per centimeters

enheit C = degrees Celsius



Project Number	30053437	Well ID	YGWC-41			Date	02/10/2021
Project Location	AMA R6 CCR Landfill		Weather(°F)	68.0 degrees F	and Clear. The wind is	s blowing E/SE	at 8.1 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	56.82	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	27.44	Total Depth (ft- bmp)	67.32	Water Column(ft)	39.88	Gallons in Well	6.48
MP Elevation	803.92	Pump Intake (ft- bmp)	62	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	13:25	Well Volumes Purged	0.25	Sample ID	YGWC-41	Sampled by	Katie Pupkiewicz
Purge Start	12:47	Gallons Purged	1.61	Replicate/ Code No.		Color	Clear

Purge End 13:23

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)
12:47:49	00:00	160	28.25	5.25	345.00	0.38	5.72	19.2	125.48
12:52:49	05:00	160	28.39	4.97	290.67	0.38	4.52	19.7	125.75
12:57:49	10:00	160	28.36	4.96	0.06	0.19	7.80	21.3	131.36
13:02:49	15:00	160	28.39	4.92	250.64	0.42	4.57	20.1	145.89
13:07:49	20:00	160	28.39	4.95	256.65	0.44	4.51	20.7	144.14
13:12:49	25:00	160	28.39	4.96	376.58	0.55	4.61	20.3	159.42
13:17:49	30:00	160	28.39	4.92	382.81	1.01	4.71	19.8	155.83
13:22:49	35:00	160	28.39	4.98	384.33	2.56	4.85	20.5	159.05

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments: LaMotte turbidity reading every five minutes in accordance with VuSitu purge log
0.54
0.68
0.59
0.20
0.20
0.20
0.09

#### Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

0.45 0.36

> 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

f

Well Location:

Well Locked at Arrival:

Condition of Well:	Well Locked at Departure:	
		-
t-bmp = feet below measuring point n = inches	mS/cm = milliSiemens NTU = Nephelometric	s per centimeter : Turbidity Unit

ft = feet mL/min = milliliters per minute mS/cm = milliSiemens per centimeterNTU = Nephelometric Turbidity Unit mg/L = milligrams per liter  $\mu S/cm = microSiemens per centimeters$ 



Project Number	30053437	Well ID	YGWC-42			Date	02/10/2021
Project Location	AMA R6 CCR Landfill		Weather(°F)	69.8 degrees F	and Cloudy. The wind	l is blowing und	efined at 0.0 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	49.36	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	28.11	Total Depth (ft- bmp)	59.76	Water Column(ft)	31.65	Gallons in Well	5.14
MP Elevation	797.86	Pump Intake (ft- bmp)	55	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:30	Well Volumes Purged	0.16	Sample ID	YGWC-42	Sampled by	Katie Pupkiewicz
Purge Start	14:10	Gallons Purged	0.82	Replicate/ Code No.		Color	Clear
Purge End	14:26						

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)
14:10:02	00:00	120	29.11	5.55	1333.11	2.12	5.11	18.6	157.84
14:15:02	05:00	100	29.95	5.63	1417.90	0.88	1.59	19.1	138.88
14:20:02	10:00	100	30.05	5.62	1413.86	2.37	1.44	19.9	140.09
14:25:02	15:00	100	30.02	5.65	1411.69	3.80	1.43	19.6	142.24
14:30:02	20:00	100	30.02	5.86	0.24	0.28	8.30	22.4	144.37
14:34:49	24:47	100	30.02	5.88	0.06	0.40	8.37	23.0	154.86

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments:	LaMotte turbidity readings every five minutes in accordance with VuSitu purge log 0.50					
	1.57					
	1.66					
	1.31					
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: N	A



Project Number	30053437	Well ID	PZ-35			Date	02/10/2021
Project Location	AMA AP-3, A, B and B'		Weather(°F)	70.2 degrees F	and Cloudy. The wind	is blowing und	efined at 0.0 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	38.91	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	11.74	Total Depth (ft- bmp)	50.01	Water Column(ft)	38.27	Gallons in Well	6.22
MP Elevation	743.81	Pump Intake (ft- bmp)	45	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	16:15	Well Volumes Purged	0.14	Sample ID	PZ-35	Sampled by	Katie Pupkiewicz
Purge Start	15:57	Gallons Purged	0.85	Replicate/ Code No.		Color	Clear

Purge End 16:13

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)
15:57:50	00:00	180	11.93	5.83	110.48	1.95	6.68	19.7	139.34
16:02:50	05:00	180	11.93	5.62	107.72	3.18	5.48	19.7	135.59
16:07:50	10:00	180	11.93	5.58	107.24	0.51	5.21	19.5	135.37
16:12:50	15:00	180	11.94	5.53	105.49	1.00	4.92	19.2	138.00

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

LaMotte turbidity readings every five minutes in accordance with VuSitu purge log Comments: 1.60 1.11

#### 1.05 Well Casing Volume Conversion

1.06

Well diameter (inche	s) = 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

mS/cm = milliSiemens per centimeter NTU = Nephelometric Turbidity Unit mg/L = milligrams per liter µS/cm = microSiemens per centimeters



Project Number	30052922	Well ID	YGWA-5D			Date	02/08/2021	
Project Location	AMA AP-3, A, B and B'		Weather(°F)	59.5 degrees F and Clear. The wind is blowing S/SE at 9.2 mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	78.83	Casing Diameter (in)	2	Well Casing Material	PVC	
Static Water Level (ft-bmp)	22.29	Total Depth (ft- bmp)	129.13	Water Column(ft)	106.84	Gallons in Well	17.36	
MP Elevation	784.53	Pump Intake (ft- bmp)	124	Purge Method	Low-Flow	Sample Method	Low-Flow	
Sample Time	16:45	Well Volumes Purged	0.15	Sample ID	YGWA-5D	Sampled by	Peter Argyakis	
Purge Start	15:51	Gallons Purged	2.60	Replicate/ Code No.		Color	Clear	

Purge End 16:41

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:51:10	00:00	200	22.29	7.86	164.99	296.62	9.59	16.7	-164.27
15:56:10	05:00	200	22.29	7.78	165.22	273.17	9.56	16.4	-187.88
16:01:10	10:00	200	22.29	7.73	173.79	258.87	9.65	15.9	-127.42
16:06:10	15:00	200	22.29	7.71	154.23	239.64	9.71	15.6	-139.89
16:11:10	20:00	200	22.29	7.63	206.52	222.85	9.62	15.2	-139.78
16:16:10	25:00	200	22.29	7.61	178.26	208.31	9.66	15.1	-111.34
16:21:10	30:00	200	22.29	7.62	167.01	196.81	9.65	15.0	-110.68
16:26:10	35:00	200	22.29	7.64	155.65	186.23	9.52	15.0	-114.65
16:31:10	40:00	200	22.29	7.64	148.92	176.24	9.49	15.0	-122.46
16:36:10	45:00	200	22.29	7.65	144.09	166.85	9.50	14.9	-127.04
16:41:10	50:00	200	22.29	7.66	143.98	158.30	9.49	14.8	-129.62

Constituent Sampled	Container	Number	Preservative
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
Fluoride	250 mL Plastic	1	None

Comments:	LaMotte turbidity readings (time:NTU) 1550: 1.12 1555: 1.13 1600: 1.44 1605: 2.11 1610: 1.51 1615: 1.57 1620: 1.47 1625: 1.19 1630: 1.07 1635: 0.97
	1640: 1.05

Well Casing Volume Conversion

mS/cm = milliSiemens per centimeter NTU = Nephelometric Turbidity Unit mg/L = milligrams per liter $\mu S/cm = microSiemens per centimeters$ 



Project Number	30053437	Well ID	YGWC-38			Date	02/09/2021
Project Location	AMA R6 CCR Landfill		Weather(°F)	59.9 degrees F	and Cloudy. The wind	is blowing unde	efined at 0.0 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	39.59	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	30.75	Total Depth (ft- bmp)	50.59	Water Column(ft)	19.84	Gallons in Well	3.22
MP Elevation	799.69	Pump Intake (ft- bmp)	45	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	13:50	Well Volumes Purged	0.18	Sample ID	YGWC-38	Sampled by	Katie Pupkiewicz
Purge Start	13:31	Gallons Purged	0.58	Replicate/ Code No.	MS/MSD	Color	Clear

Purge End 13:48

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:31:26	00:00	140	31.3	5.29	961.97	1.26	6.50	20.3	142.48
13:36:26	05:00	100	32.1	5.02	929.66	3.82	4.47	18.5	139.84
13:41:26	10:00	100	32.07	5.02	919.74	1.11	4.29	18.3	139.47
13:46:26	15:00	100	32.05	5.04	920.86	0.69	4.23	18.1	144.02

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments: LaMotte turbidity readings every five minutes in accordance with VuSitu purge log 1.57 2.80

#### 1.70 1.01

# 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



Project Number	30053437	Well ID	YGWA-5I			Date	02/08/2021
Project Location	AMA AP-3, A, B and B'		Weather(°F)	59.2 degrees F	and Clear. The wind is	s blowing S/SE	at 10.3 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	48.64	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	18.8	Total Depth (ft- bmp)	58.94	Water Column(ft)	40.14	Gallons in Well	6.52
MP Elevation	784.54	Pump Intake (ft- bmp)	53	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	16:20	Well Volumes Purged	0.22	Sample ID	YGWA-5I(020821	Sampled by	Katie Pupkiewicz
Purge Start	15:47	Gallons Purged	1.45	Replicate/ Code No.	Dup-01	Color	Clear

Purge End 16:15

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)
15:47:47	00:00	200	19.24	6.88	99.76	0.33	6.11	16.3	198.20
15:52:47	05:00	200	19.24	6.03	96.34	0.12	6.46	16.3	188.16
15:57:47	10:00	200	19.2	5.75	76.12	0.09	6.51	16.3	181.96
16:02:47	15:00	200	19.22	5.70	69.72	0.60	6.47	16.4	179.77
16:07:47	20:00	200	19.22	5.67	67.26	0.74	6.49	16.4	176.42
16:12:47	25:00	200	19.22	5.67	67.27	2.42	6.46	16.4	175.21

Constituent Sampled	Container	Number	Preservative
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
Fluoride	250 mL Plastic	1	None

Comments:	LaMotte turbidity taken every 5 min in accordance With VuSitu sample troll
	1.33
	1.60
	1.25
	0.92
	1.40
	1.50

#### Well Casing Volume Conversion

Well diameter (inches) = gallons per foot $1 = 0.04 \ 1.5 = 0.09 \ 2.5 \\ 1.25 = 0.06 \ 2 = 0.16 \ 3$		5 = 0.26 3.5 = 0.50 6 = 1.47 = 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	



Project Number	30053437	Well ID	YGWA-20S			Date	02/09/2021
Project Location	AMA AP-3, A, B and B'		Weather(°F)	68.0 degrees F	and Cloudy. The wind	is blowing unde	efined at 0.0 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	19.22	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	11.27	Total Depth (ft- bmp)	29.52	Water Column(ft)	18.25	Gallons in Well	2.97
MP Elevation	767.12	Pump Intake (ft- bmp)	24.5	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	16:50	Well Volumes Purged	0.33	Sample ID	YGWA-20S	Sampled by	Katie Pupkiewicz
Purge Start	16:26	Gallons Purged	0.98	Replicate/ Code No.		Color	Clear

Purge End 16:46

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
16:26:09	00:00	160	11.97	5.96	65.31	19.43	7.76	17.3	61.51
16:31:09	05:00	160	12	5.93	60.57	10.01	7.47	17.1	55.91
16:36:09	10:00	160	12.04	5.90	60.16	3.12	7.42	16.9	58.04
16:41:09	15:00	160	12.05	5.87	59.94	1.91	7.41	16.7	61.08
16:46:09	20:00	160	12.05	5.86	60.08	1.43	7.38	16.7	66.54

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments: LaMotte turbidity readings every five minutes in accordance with VuSitu purge log 13.01 7.41

3.	84	

2.10 1.95

#### 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 Completion: NA

Well Locked at Departure:

#### Key Number To Well: NA



Project Number	30053437	Well ID	YGWC-23S			Date	02/09/2021
Project Location	AMA AP-3, A, B an	d B'	Weather(°F)	Cloudy breezy	55°F		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	28.61	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	16.96	Total Depth (ft- bmp)	38.91	Water Column(ft)	21.95	Gallons in Well	3.57
MP Elevation	764.91	Pump Intake (ft- bmp)	34	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	11:10	Well Volumes Purged	0.50	Sample ID	YGW -23S(020921)	Sampled by	Katie Pupkiewicz
Purge Start	10:33	Gallons Purged	1.80	Replicate/ Code No.		Color	Clear
Purge End	11:05						
	Total	Depth to		nacific	Disselved		

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)
10:33:25	00:00	210	17.75	5.94	207.22	27.52	8.51	16.7	80.82
10:38:25	05:00	210	17.76	5.73	205.72	17.88	8.22	16.9	90.41
10:43:25	10:00	210	17.77	5.62	200.80	9.98	8.70	17.1	91.95
10:48:25	15:00	210	17.79	5.73	131.25	2.85	7.80	17.2	88.62
10:53:25	20:00	210	17.77	5.64	196.98	1.28	7.84	17.1	88.05
10:58:25	25:00	210	17.8	5.62	195.78	0.59	7.88	17.3	90.60
11:03:25	30:00	210	17.82	5.61	195.48	0.24	7.90	17.4	98.16

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments:	LaMotte turbidity readings taken every five minutes in accordance with the VuSitu purge log
	12.43
	7.01
	5.63
	2.09
	1.13

Well Casing Volume Conversi	on
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1.11 0.75

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			

ft-bmp = feet below measuring point in = inches ft = feet mL/min = milliliters per minute mS/cm = milliSiemens per centimeter NTU = Nephelometric Turbidity Unit mg/L = milligrams per liter $\mu S/cm = microSiemens per centimeters$ 



Project Number	30053437	Well ID	YGWC-43			Date	02/09/2021
Project Location	AMA R6 CCR Landfill		Weather(°F)	66.7 degrees F mph.	and Mostly Cloudy. Th	ne wind is blowi	ing undefined at 0.0
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.16	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	16.28	Total Depth (ft- bmp)	79.66	Water Column(ft)	63.38	Gallons in Well	10.3
MP Elevation	744.96	Pump Intake (ft- bmp)	75	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	15:30	Well Volumes Purged	0.07	Sample ID	YGWC-43	Sampled by	Katie Pupkiewicz
Purge Start	15:09	Gallons Purged	0.69	Replicate/ Code No.		Color	Clear

Purge End 15:26

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)
15:09:47	00:00	140	16.41	5.82	809.51	3.40	5.57	19.3	43.08
15:14:47	05:00	140	16.45	5.77	898.40	0.56	1.38	18.6	36.52
15:19:47	10:00	140	16.52	5.82	892.29	0.43	0.90	18.2	36.03
15:24:47	15:00	140	16.45	5.86	868.41	0.38	1.20	18.2	36.25

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log 3.92 1.64

0.68	
0.77	

#### 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 Completion: NA

\_\_\_\_\_

\_\_\_\_\_

Key Number To Well: NA



Project Number	30053438	Well ID	YGWC-36A			Date	02/10/2021
Project Location	AMA R6 CCR Landfill		Weather(°F)	69.8 degrees F	and Mostly Cloudy. Th	ne wind is blowi	ng S at 3.4 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	689.7	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	13.43	Total Depth (ft- bmp)	51.2	Water Column(ft)	37.77	Gallons in Well	6.14
MP Elevation	739.61	Pump Intake (ft- bmp)	48	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:30	Well Volumes Purged	0.22	Sample ID	YGWC-36A	Sampled by	Peter Argyakis
Purge Start	13:56	Gallons Purged	1.32	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)
13:56:54	00:00	150	13.43	5.85	111.21	67.53	8.56	19.1	133.62
14:01:54	05:00	150	13.5	5.99	111.32	27.91	8.38	20.1	131.77
14:06:54	10:00	150	13.63	6.13	111.86	25.95	8.43	20.9	125.34
14:11:54	15:00	150	13.75	6.20	112.17	26.85	8.44	21.6	122.82
14:16:54	20:00	150	13.9	6.25	112.21	18.93	8.44	22.3	121.99
14:21:54	25:00	150	13.98	6.31	112.81	20.67	8.50	23.1	120.45
14:26:54	30:00	150	14.11	6.31	112.80	18.91	8.50	23.8	121.60

Constituent Sampled	Container	Number	Preservative
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3

Comments:	LaMotte turbidity readin 1357: 11.4 1402: 7.33 1407: 5.94 1412: 4.21 1417: 4.87 1422: 4.56 1427: 3.09	gs (time:NTU)			
	Sample sightly more tur	bid compared to low-flo	ow purge		
Well Casing Volum	e Conversion				
Well diameter (inche	es) = gallons per foot	1 = 0.04 1.5 = 0.09 2.5 1.25 = 0.06 2 = 0.16 3	5 = 0.26 3.5 = 0.50 6 = 1.47 = 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	
ft-bmp = feet below r in = inches ft = feet mL/min = milliliters p	neasuring point er minute	mS/cm = milliSiemens NTU = Nephelometric mg/L = milligrams per $\mu S/cm = microSiemen$	per centimeter Turbidity Unit liter s per centimeters	mV = millivolts °F = degrees Fahrenheit °C = degrees Celsius	



Project Number	30053438	Well ID	YAMW-5			Date	02/09/2021
Project Location	AMA R6 CCR Landfill		Weather(°F)	Cold, dry			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	80.3	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	13.98	Total Depth (ft- bmp)	90.34	Water Column(ft)	76.36	Gallons in Well	12.41
MP Elevation	788.9	Pump Intake (ft- bmp)	85	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:45	Well Volumes Purged	0.14	Sample ID	YAMW-5	Sampled by	Peter Argyakis
Purge Start	09:03	Gallons Purged	1.78	Replicate/ Code No.		Color	Clear

#### Purge End 09:43

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:03:44	00:00	250	12.98	5.37	0.07	43.49	10.52	11.9	223.76
09:08:44	05:00	200	13.9	5.32	0.07	55.09	10.21	12.5	220.41
09:13:44	10:00	150	14.47	5.36	0.07	67.25	10.04	12.7	218.76
09:18:44	15:00	150	14.72	5.33	0.07	80.70	9.89	13.0	217.80
09:23:44	20:00	150	14.88	5.34	0.07	83.16	9.79	13.2	216.61
09:28:44	25:00	150	14.96	5.66	0.07	108.44	9.86	13.5	216.52
09:33:44	30:00	150	15.05	5.34	0.07	112.43	9.78	13.8	214.02
09:38:44	35:00	150	15.14	5.34	0.07	130.82	9.72	14.1	214.52
09:43:44	40:00	150	15.14	5.34	0.07	143.48	9.58	14.3	213.19

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments:	LaMotte turbidity readings (time:NTU)
	0903: 3.28
	0908: 2.67
	0913: 2.54
	0918: 2.15
	0923: 2.18
	0928: 1.96
	0933: 2.08
	0938: 2.29
	0943: 2.12

Last depth to water: 15.18

#### 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

ft-bmp = feet below measuring point in = inches ft = feet mL/min = milliliters per minute mS/cm = milliSiemens per centimeterNTU = Nephelometric Turbidity Unit mg/L = milligrams per liter  $\mu S/cm = microSiemens per centimeters$ 



Project Number	30053438	Well ID	YAMW-4			Date	02/09/2021
Project Location	AMA R6 CCR Landfill		Weather(°F)	Sunny, dry			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	86.59	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	31.98	Total Depth (ft- bmp)	96.55	Water Column(ft)	64.57	Gallons in Well	10.49
MP Elevation	805.59	Pump Intake (ft- bmp)	90	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	11:20	Well Volumes Purged	0.21	Sample ID	YAMW-4	Sampled by	Peter Argyakis
Purge Start	10:24	Gallons Purged	2.18	Replicate/ Code No.		Color	Clear

Purge End 11:19

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)
10:24:43	00:00	150	31.98	5.60	0.07	194.37	10.17	13.1	185.76
10:29:43	05:00	150	32.15	6.88	0.07	110.70	9.78	14.0	176.61
10:34:43	10:00	150	32.36	6.88	0.07	102.23	9.75	14.4	170.84
10:39:43	15:00	150	32.48	6.90	0.07	103.96	9.59	14.3	152.16
10:44:43	20:00	150	32.59	6.93	0.30	105.82	9.57	14.3	134.78
10:49:43	25:00	150	32.71	6.89	446.03	0.00	9.20	15.4	75.09
10:54:43	30:00	150	32.76	6.88	437.06	0.00	9.19	15.4	56.75
10:59:43	35:00	150	32.83	6.89	417.28	107.16	9.25	15.3	44.68
11:04:43	40:00	150	33.01	6.78	474.74	1.36	6.48	16.9	-6.45
11:09:43	45:00	150	33.09	6.91	471.10	0.00	3.10	15.8	-9.92
11:14:43	50:00	150	33.15	6.94	470.46	0.00	3.52	15.1	-1.65
11:19:43	55:00	150	33.15	6.96	470.22	0.00	3.96	14.7	-3.43

Constituent Sampled	Container	Number	Preservative
Fluoride	250 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3

mS/cm = milliSiemens per centimeter NTU = Nephelometric Turbidity Unit mg/L = milligrams per liter $\mu S/cm = microSiemens per centimeters$ 



Comments: LaMotte turbidity read	lings (time:NTU)	
1024. 1.31		
1023. 1.33		
1039: 1.47		
1044 2 02		
1049: 1.77		
1054: 1.50		
1059: 1.86		
1104: 1.42		
1109: 1.58		
1114: 1.75		
1119: 2.03		
Last depth to water: 3	33.22	
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



Project Number	30053438	Well ID	YAMW-2			Date	02/09/2021
Project Location	AMA R6 CCR Landfill		Weather(°F)	57.4 degrees F	and Cloudy. The wind	is blowing und	efined at 0.0 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	36.44	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	20.5	Total Depth (ft- bmp)	46.48	Water Column(ft)	25.98	Gallons in Well	4.22
MP Elevation	781.04	Pump Intake (ft- bmp)	41	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	12:45	Well Volumes Purged	0.19	Sample ID	YMWA-2	Sampled by	Peter Argyakis
Purge Start	12:21	Gallons Purged	0.79	Replicate/ Code No.		Color	Clear

Purge End 12:41

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:21:40	00:00	150	20.5	5.75	0.00	0.55	9.19	17.6	127.23
12:26:40	05:00	150	20.63	5.90	23.25	41.93	9.11	17.3	113.65
12:31:40	10:00	150	20.8	5.80	65.07	83.36	7.56	17.9	125.49
12:36:40	15:00	150	20.88	5.78	65.62	68.30	7.49	18.7	130.35
12:41:40	20:00	150	20.93	5.81	67.95	83.32	7.34	20.4	131.93

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	None

Comments:	LaMotte turbidity readings (time:NTU)
	1221: 3.92
	1226: 3.46
	1231: 2.85
	1236: 2.51
	1241: 2.18

#### 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 Completion: NA

Key Number To Well: NA

mS/cm = milliSiemens per centimeter NTU = Nephelometric Turbidity Unit mg/L = milligrams per liter µS/cm = microSiemens per centimeters



Project Number	30053438	Well ID	YAMW-1			Date	02/09/2021
Project Location	AMA AP-3, A, B and B'		Weather(°F)	63.9 degrees F	and Partly Cloudy. Th	e wind is blowir	g undefined at 0.0 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	59.6	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	12.63	Total Depth (ft- bmp)	69.93	Water Column(ft)	57.3	Gallons in Well	9.31
MP Elevation	743.83	Pump Intake (ft- bmp)	65	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:10	Well Volumes Purged	0.08	Sample ID	YAMW-1	Sampled by	Peter Argyakis
Purge Start	13:53	Gallons Purged	0.73	Replicate/ Code No.		Color	Clear

Purge End 14:08

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)
13:53:02	00:00	250	12.63	5.49	0.06	0.00	8.80	20.7	129.48
13:58:02	05:00	150	12.99	6.41	183.45	0.00	2.98	19.1	126.64
14:03:02	10:00	150	13.18	6.42	183.35	0.00	2.91	19.1	128.01
14:08:02	15:00	150	13.23	6.42	183.16	0.00	3.21	19.0	128.31

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

Comments:	LaMotte turbidity reading (time:NTU)
	1353: 2.42
	1358: 1.48
	1403: 1.89
	1409: 1.74

#### 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

mS/cm = milliSiemens per centimeter NTU = Nephelometric Turbidity Unit mg/L = milligrams per liter $\mu S/cm = microSiemens per centimeters$ 



Project Number	30053438	Well ID	YGWC-24SA			Date	02/09/2021
Project Location	AMA AP-3, A, B and B		Weather(°F)	66.7 degrees F mph.	and Mostly Cloudy. Th	ne wind is blowi	ng undefined at 0.0
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	47	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	28.52	Total Depth (ft- bmp)	57	Water Column(ft)	28.48	Gallons in Well	4.63
MP Elevation	765	Pump Intake (ft- bmp)	92	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	16:10	Well Volumes Purged	0.51	Sample ID	YGWC-24SA	Sampled by	Peter Argyakis
Purge Start	15:09	Gallons Purged	2.38	Replicate/ Code No.	DUP-2	Color	Clear

Purge End 16:04

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)
15:09:39	00:00	300	28.52	5.67	0.06	0.00	8.41	22.2	281.84
15:14:39	05:00	150	28.97	6.17	53.00	0.00	9.20	20.1	228.97
15:19:39	10:00	150	29.03	6.13	42.94	0.00	9.02	20.2	228.78
15:24:39	15:00	150	29.08	6.09	35.31	0.00	8.99	19.9	229.72
15:29:39	20:00	150	29.11	6.06	29.35	0.00	8.89	20.4	231.59
15:34:39	25:00	150	29.15	6.07	32.41	0.00	8.68	20.6	232.71
15:39:39	30:00	150	29.16	6.11	32.39	0.00	8.58	21.0	232.63
15:44:39	35:00	150	29.19	5.74	102.62	0.00	8.29	19.9	227.52
15:49:39	40:00	150	29.24	5.68	104.53	0.00	8.16	19.9	215.83
15:54:39	45:00	150	29.26	5.70	104.97	0.00	8.16	20.2	207.74
15:59:39	50:00	150	29.3	5.69	105.75	0.00	8.12	20.4	205.13
16:04:39	55:00	150	29.34	5.69	105.68	0.00	8.10	20.5	203.62

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Fluoride	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3

**Comments:** Lamotte turbidity reading (time:NTU)

1509: 1.84
1514: 1.03
1519: 1.68
1524: 1.33
1529: 1.74
1534: 1.50
1539: 1.29
1544: 0.88
1549: 1.39
1554: 1.02
1559: 1.19
1604: 1.55

ft-bmp = feet below measuring point in = inches ft = feet mL/min = milliliters per minute mS/cm = milliSiemens per centimeterNTU = Nephelometric Turbidity Unit mg/L = milligrams per liter  $\mu S/cm = microSiemens per centimeters$ 



rmit Number		1		
	VANW-3	-		
rson Gauging:	Peter Aravakis	-		
Date:	2/8/2021	-		
Time:	09:32:00	1		
		Yes	No	٦
1 Location Ide	ntification:			
а	Is the well visible and accessible?	Ø		
b	Is the well properly identified with the correct well ID?	V		
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)	V		
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		
~ C	Does the casing have a functioning weep hole?	2		
d	Is the annular space between casings clear of debris and water, or filled with nea gravel/sand?	- -	П	
3 Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?	2		
b	Is the well pad sloped away from the protective casing?		Ø	
C C	Is the well pad in complete contact with the protective casing?	- -		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	V		
e	Is the pad surface clean (not covered with sediment or debris)?	V		
4 Internal Cas				
a	Does the cap prevent entry of foreign material into the well?	J		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	V		
C	Is the well properly vented for equilibration of air pressure?	- -		
d	Is the survey point clearly marked on the inner casing?			
0	Is the depth of the well consistent with the original well log?			
f	Is the depth of the wen consistent with the original wen log: 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 Samplina: 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?			
7 Corrective a	ctions as needed by date:	-		-
	cions as needed, by date.			



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Date: 2/4/2021           Yes           1         Location Identification:           a         Is the well visible and accessible?         Ø           b         Is the well properly identified with the correct well ID?         Ø           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 Casing:         Image around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)         Ø           2         Protective Casing:         Image around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)         Ø           2         Protective Casing:         Image around the well acceptable? (no standing water, or filled with pea gravel/sand?         Ø           a         Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?         Ø           3         Sufface Pad         Image alsoped away from the protective casing?         Ø           a         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 do		
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b         Is the well pad sloped away from the protective casing?         □           c         Is the well pad in complete contact with the protective casing?         ∅           d         Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)         ∅           e         Is the pad surface clean (not covered with sediment or debris)?         ∅           4         Internal Cast         ∅           a         Does the cap prevent entry of foreign material into the well?         ∅           b         Is the assing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?         ∅           c         Is the survey point clearly marked on the inner casing?         ∅           c         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)         ∅           s         Sampling: Uncoverter Wells Only:         Image:         □           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?         □         □         □	í 🗆	V
c       Is the well pad in complete contact with the protective casing?       Image: Complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)       Image: Complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)       Image: Complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)       Image: Complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)       Image: Complete complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)       Image: Complete complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)       Image: Complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complet	I 🗹	
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a       Does the cap prevent entry of foreign material into the well?       Image: Comparison of 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)?       Image: Comparison of the cap prevent entry of foreign material into the well?         c       Is the well properly vented for equilibration of air pressure?       Image: Comparison of the well consistent with the original well log?         d       Is the depth of the well consistent with the original well log?       Image: Comparison of the cap prevent wells?         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)       Image: Comparison of the cap prevent wells?         5       Sampling:		
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c       Is the well properly vented for equilibration of air pressure?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing based on survey point clearly marked on the survey point clearly marked on the point point installed, is it in good condition and specified in the approved groundwater plan for the facility?       Image: Comparison of the facility?       Image: Comparison of the facility?       Image: Comparison of the facility?       Image: Comparison of the facility?       Image: Comparison of the facility?       Image: Comparison of the facility?       Image:	í 🗆	V
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e       Is the depth of the well consistent with the original well log?       Image: Construction         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)       Image: Construction         5       Sampling: Coundwater Wells Only:       Image: Construction       Image: Construction         a       Does well recharge adequately when purged?       Image: Construction       Image: Construction         b       If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?       Image: Construction       Image: Construction         c       Does the well require redevelopment (low flow, turbid)?       Image: Construction / location:       Image: Construction / location:       Image: Construction / location:         6       Based on your professional judgement, is the well construction / location:       Image: Construction / location:       Image: Construction / location:         a       appropriate to 1) achieve the objectives of the Groundwater Monitoring Program       Image: Construction / location:       Image: Construction / location:         a       appropriate to 1) achieve the objectives of the Groundwater Monitoring Program       Image: Construction / location:       Image: Construction / location:         7       Corrective actions as needed, by date:       Image: Construction / location:       Image: Constru	í 🗆	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)       Image: Complex construction         5       Sampling: Coundwater Wells Only:       Image: Complex construction         a       Does well recharge adequately when purged?       Image: Complex construction         b       If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?       Image: Complex construction         c       Does the well require redevelopment (low flow, turbid)?       Image: Complex construction / location:       Image: Complex construction / location:         6       Based on your professional judgement, is the well construction / location:       Image: Complex construction / location:       Image: Complex construction / location:         7       Corrective actions as needed, by date:       Complex construction / sections as needed, by date:       Image: Complex construction / location:       Image: Complex construction / location:	í 🗆	Ø
5       Sampling: Undwater Wells Only:       Image: Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex Complex C	1	V
a       Does well recharge adequately when purged?       □         b       If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?       □         c       Does the well require redevelopment (low flow, turbid)?       □         6       Based on your professional judgement, is the well construction / location:       □         appropriate to 1) achieve the objectives of the Groundwater Monitoring Program       ☑         and 2) comply with the applicable regulatory requirements?       ☑         7       Corrective actions as needed, by date:       □		
b       If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?       □         c       Does the well require redevelopment (low flow, turbid)?       □         6       Based on your professional judgement, is the well construction / location:       □         appropriate to 1) achieve the objectives of the Groundwater Monitoring Program       ☑         and 2) comply with the applicable regulatory requirements?       ☑         7       Corrective actions as needed, by date:       □	i 🗆	
c       Does the well require redevelopment (low flow, turbid)?       □         6       Based on your professional judgement, is the well construction / location:       □         appropriate to 1) achieve the objectives of the Groundwater Monitoring Program       ☑         and 2) comply with the applicable regulatory requirements?       ☑         7       Corrective actions as needed, by date:       □		
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7 Corrective actions as needed, by date:	í 🗆	V



mit N	Number		1		
	Well ID:	YGWC-43	1		
son G	Gauging:	Peter Argyakis	1		
	Date:	2/8/2021	1		
	Time:	09:46:00	1		
			Yes	No	,
1 Loc	cation Ide	ntification:			
а		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?		V	
d		Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2 Pro	otective C	asing:			
а		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?	Ø		
d		Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3 Sur	rface Pad				
а		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?	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 Inte	ernal 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)?	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 Sar	mpling: 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 Bas	sed 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 Cor	rrective a	ctions as needed, by date:			



rmit Number:		1		
Well ID:	YAMW-4	-		
rson Gauging:	Peter Argyakis	1		
Date:	2/8/2021			
Time:	09:55:00	1		
		Yes	No	
1 Location Ide	intification:			
а	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?	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?	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?	V		
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)?	V		
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?	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:			_
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	pur 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:			_



Well ID:YGon Gauging:PeDate:2/3Date:2/3Time:09Iocation Idertia18b18c18d18d18d18d18b18c18d18b18c18b18c18b18c18b18c18b18c18d18b18c18d18b18c18d18b18c18d18b18c18f18f18f18f18f18f18f18f18f18f18f18f18f18f18f18f18f18f18f18f18f18f18f18f18f18f18f18f18f18f <th> YGWC-41</th> <th>-</th> <th></th>	 YGWC-41	-	
on Gauging:       Per         Date:       2/4         Date:       2/4         Time:       09         Location Id=It       18         b       18         b       18         c       18         d       18         d       18         b       18         d       18         b       18         c       18         b       18         c       18         d       18         c       18         d       18         c       18         d       18         c       18         d       18         d       18         c       18         d       18         d       18         d       18         d       18         d       18         d       18 <th></th> <th></th> <th></th>			
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cIsdIsdIsdIsaIsbIscDodIsbIscIsbIsbIscIsbIscIsdIsdIsdIsdIsdIsdIsdIsdIscIsdIsfIsfIsfSampling: GrupperaDobIfgrupperIfbIfgrupperDobIfgrupperDobIfgrupperDobIfgrupperDobIfgrupperDobIfgrupperDobIfgrupperDobIfgrupperDobIfgrupperDobIfgrupperDobIfgrupperDogrupperDogrupperDogrupperDogrupperDogrupperDogrupperDogrupperDogrupperDogrupperDogrupperDo<	Is the well properly identified with the correct well ID?	V	
d     Is       Protective Casi       a     Is       b     Is       c     Do       d     Is       c     Do       d     Is       s     Surface Pad       a     Is       b     Is       c     Is       d     Is       c     Is       d     Is       c     Is       d     Is       a     Is       c     Is       d     Is       d     Is       f     Is       f     Is       a     Is       f     Is       f     Is       b     Is       f     Is       du     Is       f     Is       f     Is       f     Is       g     Sampling: Group       b     If       g     C       b     If       g     Based on y	Is the well in a high traffic area and does the well require protection from traffic?	V	
Protective Casila   a Is   b Is   c Do   d Is   c Do   d Is   s Surface Pad   a Is   b Is   c Is   d Is   c Is   d Is   d Is   d Is   d Is   d Is   d Is   d Is   b Is   c Is   d Is   b Is   c Is   f Is   a Do   b Is   c Is   b If   gr c   b If   gr c   b If   gr c   b If   gr apped	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø	
aIsbIscDodIsdIsbIsbIscIsdIsdIsdIsdIsdIsdIsdIsdIsdIsaIsbIscIsdIscIsfIsfIsbIsfIsbIsbIsbIsbIsfIsbIfgCbIfbIfgBased on y	asing:		
bIscDodIsdIsaIsbIscIsdIscIsdIsdIsdIsbIscIsbIsbIscIsdIsfIsfIsfIsfIsbIsfIsgJampling: GroupbIfbIfgCbIfgBased on you	Is the protective casing free from apparent damage and able to be secured?	V	
cDodIsdIsaIsbIscIsdIsdIsdIseIsfIsdIsfIsfIsfIsfIsfIsbIsfIsfIsgSampling: GroupaDobIfgSampling: GroupbIfgBased on yourapIsapIn	Is the casing free of degradation or deterioration?	V	
disSurface Padisaisbiscisdisdiseisfisdiscisdisisisdisisisfisfisaofisfisaobisfisgobifgocobifgased on y	Does the casing have a functioning weep hole?	V	
Surface Pad a Is b Is c Is d Is e Is nternal Casing a Do b Is c Is d Is e Is f Is Sampling: Grou a Do b Is c Is d Is f Is b Is f Is b Is f Is b Is f Is b Is c Is d Is c Is d Is c Is f Is b Is c Is c Is d Is c Is f Is b Is c Is c Is c Is c Is c Is c Is c Is c	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø	
a Is b Is c Is d Is e Is internal Casing a Da b Is c Is d Is c Is d Is c Is d Is d Is s a Is d Is s a Is d Is c Is d Is c Is d Is d Is d Is c Is d Is d Is c Is d Is d Is c Is d Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is d Is c Is c Is c Is c Is c Is c Is c Is c			
bIscIsdIsdIseIseIsaDobIscIsdIsfIsfIsfSampling: GroupaDobIfgrCbIfgrCbIfgrCaDoaDoaDobIfgrCaDoaDoaDoaDoaDobIfgrCbIfaDobIfgrCbIfaDoaDobIfaDobIfaDobIfaDobIfaDobIfaDobIfaDobIfaDobIfbIfbIfbIfbIfbIfbIfbIfbIfbIfbIfbIfbIfbIfb<	Is the well pad in good condition (not cracked or broken)?	V	
cIsdIseIseIsaDabIscIsdIsfIsfIsaDabIsfIsfIsbIsfIsgControlbIfbIfgControlbIfgControlbIfgControlaDabIfgControlaDaaDabIfgControlaDaaDabIfgControlaDabIfaDabIfaDabIfaDabIfaDabIfaDabIfaDabIfbIfbIfbIfbIfaIfbIfaIfbIfbIfbIfbIfbIfbIfbIfbIfbIfbIfbIf <td>Is the well pad sloped away from the protective casing?</td> <td></td> <td>Ø</td>	Is the well pad sloped away from the protective casing?		Ø
dIs ereIseIsaDabIscIsdIsdIsfIsfIsfSampling: GroupaDabIfggcDaBased on yourap	Is the well pad in complete contact with the protective casing?	V	
e Is Internal Casing a Do b Is c Is d Is e Is f Is Sampling: Grou a Do b If gr c Do Based on your	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	
Internal Casing a Do b Is c Is d Is e Is f Is f Sampling: Grou a Do b If gr c Do Based on your	Is the pad surface clean (not covered with sediment or debris)?	Ø	
a Do b Is c Is d Is e Is f Is f Is f Sampling: Grou a Do b If g c Do b If g g c Do	ng		
b Is c Is d Is e Is f Is f Is du f Sampling: Grou a Da b If gr c Da Based on your	Does the cap prevent entry of foreign material into the well?	V	
c Is d Is e Is f Is f Sampling: Grou a Do b If gr c Do Based on your	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø	
d Is e Is f Is du Sampling: Grou a Da b If gr c Da Based on your	Is the well properly vented for equilibration of air pressure?	V	
e ls f ls f Sampling: Grou a Do b lf gr c Do Based on your	Is the survey point clearly marked on the inner casing?	V	
f Is Sampling: Grou a Da b If c Da Based on your	Is the depth of the well consistent with the original well log?	V	
Sampling: Grou a Do b If gr c Do Based on your ap	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	
a Do b If gr c Do Based on your ap	oundwater Wells Only:		
b If gr c Do Based on your ap	Does well recharge adequately when purged?		
c Do Based on your ap	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		
Based on your	Does the well require redevelopment (low flow, turbid)?		
ар	ur professional judgement, is the well construction / location:		
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V	
an	and 2) comply with the applicable regulatory requirements?	V	
Corrective action	ztions as needed, by date:		



rmit Number:		1		
Well ID:	YGWA-40	-		
rson Gauging:	Peter Argyakis	1		
Date:	2/8/2021	1		
Time:	10:02:00	1		
		Yes	No	
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)	V		
2 Protective C	asing:			
а	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				_
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)	V		
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?	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)	Q		
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	V		
	and 2) comply with the applicable regulatory requirements?	V		
7 Corrective a	ctions as needed, by date:			



			-		
mιτ		P7-37	-		
on	Gauging:	Peter Arovakis	-		
SOII	Date:	2/8/2021	-		
	Time:	10:08:00	1		
			Yes	No	,
1 Lo	ocation Ide	ntification:			
а		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)	V		
2 Pr	rotective C	asing:			
а		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 Si	urface Pad				
а		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)	V		
e		Is the pad surface clean (not covered with sediment or debris)?	Ø		
4 In	nternal Casi	ng			
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?	V		
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)	V		
5 Sa	ampling: 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 Ba	ased 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 C	orrective a	ctions as needed, by date:			
					-



rmit Number:				
Well ID:	YGWA-39	-		
rson Gauging:	Peter Argyakis	1		
Date:	2/8/2021			
Time:	10:16:00			
		Yes	No	
1 Location Ide	intification:			
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?	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				
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 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)?	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		
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:			
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	pur 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:			
		1		



mit Number		1		
	VAMM/-5	-		
weii iD.	Peter Argyakis	1		
Date	2/8/2021	-		
Time:	10:27:00	1		
	I	Yes	No	-
1 Location Ide	entification:			
а	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?		Ø	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	V		
2 Protective C	asing:			
а	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				
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)	V		
e	Is the pad surface clean (not covered with sediment or debris)?	V		
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)?	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		
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:			
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	pur 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:			



rmit Number:		1		
Well ID:	YGWC-38	1		
rson Gauging:	Peter Argyakis	1		
Date:	2/8/2021			
Time:	10:29:00			
		Yes	No	
1 Location Ide	ntification:			
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)	V		
2 Protective C	asing:			
а	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		1		-
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?	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		
e	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?	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)	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	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:			-
	• •			


rmit Numbe	n	1		
Well IC	• • YAMW-2	-		
rson Gauging	Peter Argyakis	1		
Date	2/8/2021	-		
Time	: 10:49:00	1		
		Yes	No	
1 Location lo	lentification:			
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)	V		
2 Protective	Casing:			-
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?	V		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	V		
3 Surface Pa	d			
а	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?	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		
e	Is the pad surface clean (not covered with sediment or debris)?	V		
4 Internal Ca	sing			-
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?	V		
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)	V		
5 Sampling:	Groundwater 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 y	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	actions as needed, by date:			_



mi	t Number:		-		
	Well ID:	YGWC-23S	-		
soi	n Gauging:	Katie Pupkiewicz	-		
	Date:	2/8/2021	-		
	Time:	10:42:00	Voc	No	-
1 L	ocation Ide	ntification:	103	NO	
a	3	Is the well visible and accessible?	Ø		
ł	)	Is the well properly identified with the correct well ID?	V		
c	:	Is the well in a high traffic area and does the well require protection from traffic?		V	
C	ł	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)			
2 F	Protective C	asing:			
a	a	Is the protective casing free from apparent damage and able to be secured?		Ø	
k	ט	Is the casing free of degradation or deterioration?	Ø		
C	2	Does the casing have a functioning weep hole?	Ø		
c	ł	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3 5	Surface Pad				
a	3	Is the well pad in good condition (not cracked or broken)?	Ø		
k	D	Is the well pad sloped away from the protective casing?		V	
C	2	Is the well pad in complete contact with the protective casing?	Ø		
C	k	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	9	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	nternal Casi	ng			
ā	à	Does the cap prevent entry of foreign material into the well?	Ø		
k	כ	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	V		
c	2	Is the well properly vented for equilibration of air pressure?	Ø		
c	k	Is the survey point clearly marked on the inner casing?	Ø		
e	9	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 5	Sampling: G	roundwater Wells Only:			
ā	a	Does well recharge adequately when purged?			
k	0	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
c	:	Does the well require redevelopment (low flow, turbid)?			
6 E	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:			
_					



jec	t Location:	AMA AP-3, A, B and B'	1		
rm	it Number:		4		
	Well ID:	PZ-06D	-		
rso	n Gauqinq:	Peter Argyakis	-		
	Date:	2/8/2021	-		
	Time:	11:19:00	N	N	Τ,
1			Yes	NO	_
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:			
	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				
	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?	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)?	V		
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		
	c	Is the well properly vented for equilibration of air pressure?			
	d	Is the survey point clearly marked on the inner casing?			
	u o	Is the depth of the well consistent with the original well log?			
	e r	Is the cosing stable? (or does the nucleon each when touched or can it be taken enert by hend			
	1	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?	V		
7	Corrective a	ctions as needed, by date:			
_					_
8	Date by whe	en corrective actions are needed:			



mit Numbe		1	
Well II	: YGWA-6S	-	
son Gauging	Peter Argyakis		
Date	2/8/2021	1	
Time	11:21:00	1	
		Yes	No
1 Location lo	dentification:		
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	Casing:		
а	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 Pa	d		
а	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	
e	Is the pad surface clean (not covered with sediment or debris)?	V	
4 Internal Ca	Ising		
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?	V	
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)	V	
5 Sampling:	Groundwater 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 y	/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	actions as needed, by date:		



rmit Number	:	1		
Well ID	: YGWA-6I	1		
rson Gauging	Peter Argyakis	1		
Date	: 2/8/2021			
Time	: 11:22:00			_
		Yes	No	
1 Location Id	entification:			
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	Casing:			
а	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 Pag	ł			
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 Ca	sing			-
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?	V		
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?	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:	Groundwater 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 y	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	actions as needed, by date:			
8 Date by wh	en corrective actions are needed:			



Well ID:   GWA-175     son Gauding   Peter Argyakis     Date   2/8/2021     Time   1125:00     1   Location Identification:     a   Is the well roperly identified with the correct well ID?     c   Is the well in a high traffic area and does the well require protection from traffic?     d   Is the well in a high traffic area and does the well require protection from traffic?     a   Is the well in a high traffic area and does the well accestable? (no standing water, nor is well located in obvious driving driving the well accestable? (no standing water, nor is well located in obvious driving are find and the well accestable? (no standing water, nor is well located in obvious driving water and to be secured?     2   Protective Casing:   Image: the casing free of degradation or deterioration?     c   Does the casing have a functioning weep hole?   Image: the well pad in good condition (not cracked or broken)?     d   Is the well pad in good condition (not cracked or broken)?   Image: the well pad in complete contact with the protective casing?   Image: the casing free of kinks or bonds with setsipped on)     e   Is the well pad in complete contact with the ground surface and stable? (not undermined by erroison, animal burrows, and does not move when stepped on)   Image: the casing stable?   Image: the casing stable?     d   Is the well pad incompl			-		
Weil Dr. Numer 1/2       Galaxies     Peter Argakis       Date:     Z/8/2021       Time:     11-25:00       1 Location Identification:     Image: International Control Identification:     Image: International Control Identification:       a     Is the well visible and accessible?     Image: International Control Identification:     Image: International Control Identification:       c     Is the well in a high traffic area and does the well require protection from traffic?     Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image:	mit Number		-		
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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)   Image: construction of the pad surface clean (not covered with sediment or debris)?   Image: construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction construction construction construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of constru	c	Is the well pad in complete contact with the protective casing?	V		
e   Is the pad surface clean (not covered with sediment or debris)?   Image: Construction of the pad surface clean (not covered with sediment or debris)?     4   Internal Casing   Image: Construction of the pad surface clean (not covered with sediment or debris)?   Image: Construction of the pad surface clean (not covered with sediment or debris)?     4   Internal Casing   Image: Construction of the pad surface clean (not covered with sediment or debris)?   Image: Construction of the pad surface clean (not covered with sediment or debris)?     a   Does the cap prevent entry of foreign material into the well?   Image: Construction of the pad surface clean (not covered with sediment or debris)?   Image: Construction of the pad surface clean (not covered with sediment or debris)?     b   Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?   Image: Construction (such as bailers)?   Image: Construction (such as bailers)?   Image: Construction (such as bailers)?   Image: Construction (such as bailers)?   Image: Construction (such as bailers)?   Image: Construction (such as bailers)?   Image: Construction (such as bailers)?   Image: Construction (such as bailers)?   Image: Construction (such as bailers)?   Image: Construction (such as bailers)?   Image: Construction (such as bailers)?   Image: Construction (such as bailers)?   Image: Construction (such as bailers)?   Image: Construction (such as bailers)?   Image: Construction (such as bailers)?   Image: Construction	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		
4   Internal Casing   Internal Casing   Internal Casing     a   Does the cap prevent entry of foreign material into the well?   Image: Casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?   Image: Casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?   Image: Casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?   Image: Casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?   Image: Casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?   Image: Casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?   Image: Casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?   Image: Casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?   Image: Casing free of kinks or bends, or any obstruction for free grant of air pressure?   Image: Casing free of kinks or bends, or any obstruction free grant of air pressure?   Image: Casing free of kinks or bends, or any obstruction free grant of air pressure?   Image: Casing free of kinks or bends, or any obstruction free grant of air pressure?   Image: Casing free of kinks or bends, or any obstruction free grant of air pressure?   Image: Casing free of kinks or bends, or any obstruction free grant of an or any obstruction free grant of an or any obstruction free grant of an or any obstruction free grant of an or any obstruction free grant of an or any obstruction free grant of an or any obstruction free grant of an or any obstruction or any obstruction free grant of an or any obstruction free grant of an or	e	Is the pad surface clean (not covered with sediment or debris)?	V		
a   Does the cap prevent entry of foreign material into the well?   Image: Comparison of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap of the cap	4 Internal Ca	ising			-
b   Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?   Image: Construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a construction of a const constructio o constructio constructio o construction o	а	Does the cap prevent entry of foreign material into the well?	V		
c   Is the well properly vented for equilibration of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?     d   Is the survey point clearly marked on the inner casing?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?   Image: Construction of air pressure?	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	V		
d   Is the survey point clearly marked on the inner casing?   Image: Comparison of the survey point clearly marked on the inner casing?   Image: Comparison of the survey point clearly marked on the inner casing?     e   Is the depth of the well consistent with the original well log?   Image: Comparison of the survey point clearly marked on the inner casing?   Image: Comparison of the survey point clearly marked on the inner casing?   Image: Comparison of the survey point clearly marked on the inner casing?   Image: Comparison of the survey point clearly marked on the inner casing?   Image: Comparison of the survey point clearly marked on the inner casing?   Image: Comparison of the survey point clearly marked on the inner casing?   Image: Comparison of the survey point clearly marked on the inner casing?   Image: Comparison of the survey point clearly marked on the inner casing?   Image: Comparison of the survey point clearly marked on the inner casing?   Image: Comparison of the survey point clearly marked on the inner casing?   Image: Comparison of the survey point clearly marked on the inner casing?   Image: Comparison of the survey point clearly marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the i	с	Is the well properly vented for equilibration of air pressure?	V		
e   Is the depth of the well consistent with the original well log?   Image: Construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction	d	Is the survey point clearly marked on the inner casing?	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)   Image: Construction     5   Sampling: Groundwater Wells Only:   Image: Construction   Image: Construction     a   Does well recharge adequately when purged?   Image: Construction   Image: Construction     b   If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?   Image: Construction   Image: Construction     c   Does the well require redevelopment (low flow, turbid)?   Image: Construction   Image: Construction   Image: Construction     6   Based on your professional judgement, is the well construction / location:   Image: Construction / location:   Image: Construction / location:   Image: Construction / location:     and 2) comply with the applicable regulatory requirements?   Image: Construction / location:   Image: Construction / location:   Image: Construction / location:     7   Corrective actions as needed, by date:   Image: Construction / location:   Image: Construction / location:   Image: Construction / location:   Image: Construction / location:	e	Is the depth of the well consistent with the original well log?	V		
5   Sampling: Groundwater Wells Only:   Image: Groundwater Wells Only:   Image: Groundwater Wells Only:     a   Does well recharge adequately when purged?   Image: Groundwater Decision and Specified in the approved groundwater plan for the facility?   Image: Groundwater Decision and Specified in the approved groundwater plan for the facility?   Image: Groundwater Plan for the facility?   Image: Groundwater Plan for the facility?   Image: Groundwater Plan for the facility?   Image: Groundwater Plan for the facility?   Image: Groundwater Plan for the facility?   Image: Groundwater Plan for the facility?   Image: Groundwater Plan for the facility?   Image: Groundwater Plan for the facility?   Image: Groundwater Plan for the facility?   Image: Groundwater Plan for the facility?   Image: Groundwater Plan for the facility?   Image: Groundwater Plan for the facility?   Image: Groundwater Plan for the facility?   Image: Groundwater Plan for the facility?   Image: Groundwater Plan for the facility?   Image: Groundwater Plan for the facility?   Image: Groundwater Plan for the facility?   Image: Groundwater Plan for the facility?   Image: Groundwater Plan for the facility?   Image: Groundwater Plan for the facility?   Image: Groundwater Plan for the facility?   Image: Groundwater Plan for the facility?   Image: Groundwater Plan for the facility?   Image: Groundwater Plan for the facility?   Image: Groundwater Plan for the facility?   Image: Groundwater Plan for the facility?   Image: Groundwater Plan for the facility?   Image: G	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		
a   Does well recharge adequately when purged?   □     b   If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?   □   □     c   Does the well require redevelopment (low flow, turbid)?   □   □     6   Based on y=r professional judgement, is the well construction / location:   □   □     appropriate to 1) achieve the objectives of the Groundwater Monitoring Program   □   □     and 2) comply with the applicable regulatory requirements?   □   □     7   Corrective actions as needed, by date:   □   □	5 Sampling:	Groundwater Wells Only:			-
b   If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?   □   □     c   Does the well require redevelopment (low flow, turbid)?   □   □     6   Based on your professional judgement, is the well construction / location:   □   □     appropriate to 1) achieve the objectives of the Groundwater Monitoring Program   □   □     and 2) comply with the applicable regulatory requirements?   □   □     7   Corrective actions as needed, by date:   □	а	Does well recharge adequately when purged?			
c   Does the well require redevelopment (low flow, turbid)?   □     6   Based on your professional judgement, is the well construction / location:   □     appropriate to 1) achieve the objectives of the Groundwater Monitoring Program   □     and 2) comply with the applicable regulatory requirements?   □     7   Corrective actions as needed, by date:   □	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
6   Based on your professional judgement, is the well construction / location:   appropriate to 1) achieve the objectives of the Groundwater Monitoring Program   I     and 2) comply with the applicable regulatory requirements?   I   I     7   Corrective actions as needed, by date:   I	с	Does the well require redevelopment (low flow, turbid)?			
appropriate to 1) achieve the objectives of the Groundwater Monitoring Program   Image: Constant of the Groundwater Monitoring Program     and 2) comply with the applicable regulatory requirements?   Image: Constant of the Groundwater Monitoring Program     7   Corrective actions as needed, by date:   Image: Constant of the Groundwater Monitoring Program	6 Based on y	/our professional judgement, is the well construction / location:			
and 2) comply with the applicable regulatory requirements? Image: Comply with the applicable regulatory requirements?   7 Corrective actions as needed, by date: Image: Comply with the applicable regulatory requirements?	,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
7 Corrective actions as needed, by date:		and 2) comply with the applicable regulatory requirements?	V		
	7 Corrective	actions as needed, by date:			-



mit l	Number:		-		
	Well ID:	YGWA-18S	-		
son (	Gauging:	Peter Argyakis	-		
	Date:	2/8/2021	-		
	Time:	11:34:00	Voc	No	-
1 Loo	cation Ide	ntification:	163	NO	
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 Pro	otective C	asing:			
а		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 Su	rface Pad				
а		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 Int	ternal Casi	ng			
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?	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 Sai	mpling: 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 Ba	sed 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 Co	orrective a	ctions as needed, by date:			
8 Da	ite by whe	n corrective actions are needed:			-



rmit l	Number:		1		
	Well ID:	YGWA-18I			
rson (	Gauging:	Peter Argyakis	]		
	Date:	2/8/2021	]		
	Time:	11:38:00			
			Yes	No	
1 Loc	cation 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)			
2 Pro	otective 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?	V		
d		Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	V		
3 Sui	rface 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		
e		Is the pad surface clean (not covered with sediment or debris)?	V		
4 Inte	ernal Casi	na			-
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		
c		Is the well properly vented for equilibration of air pressure?	V		
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 Sar	mplina: G	roundwater Wells Only:	-		1
а	- 3	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 Bas	sed on vo	ur professional judgement, is the well construction / location:	-		1
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?			
7 ( ~	proctivo a	rtions as needed by date:			+
1 00	inective a	ctions as needed, by date.			



ect Locatio		-	
Woll I	۲. D· P7-48	-	
son Gaugin	n: Peter Aravakis	1	
Dat	e: 2/8/2021		
Tim	e: 11:50:00		
		Yes	No
1 Location I	dentification:		
а	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	Casing:		
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 Pa	ad		
а	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)	V	
е	Is the pad surface clean (not covered with sediment or debris)?	Ø	
4 Internal C	asing		
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?	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)	Ø	
5 Sampling:	Groundwater 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	your 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	actions as needed, by date:		



	ct Location:	AMA AP-3, A, B and B	-		
rm	it Number:		-		
	Well ID:	YGWC-49	-		
rso	on Gauging:		-		
	Date:	11:55:00	-		
	Time:	11.55.00	Voc	No	N
1	Location Ide	ntification:	163	NO	
	2	Is the well visible and accessible?	ন		-
	a b	Is the well preparty identified with the correct well ID?	L L		+
-	D C	Is the well in a high traffic area and does the well require protection from traffic?		L N	+
-	ر ۲	Is the drained a region of the well accepted and does the well require protection from traincy		<b>V</b>	+
	a	drainage flow path)	Ø		
2	Protective C	asing:			
	а	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?	$\checkmark$		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	V		
3	Surface Pad				
	а	Is the well pad in good condition (not cracked or broken)?	V		
	b	Is the well pad sloped away from the protective casing?	Ø		T
	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	inα			t
-	а	Does the cap prevent entry of foreign material into the well?	V		T
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	V		t
-	~ C	Is the well properly vented for equilibration of air pressure?			+
-	d	Is the survey point clearly marked on the inner casing?		-	+
-	u 0	Is the depth of the well consistent with the original well log?	R		+
	t	Is the cacing stable? (or does the nuc move easily when touched or can it be taken apart by hand			+
	I	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	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		T
		and 2) comply with the applicable regulatory requirements?	V		t
		ctions as nooded by date:	-		+



ject Location	: AMA AP-3, A, B and B'	_		
rmit Number	:	-		
Well ID	: PZ-35	4		
son Gauging	Peter Argyakis	-		
Date	: 2/8/2021	-		
Time	: 12:01:00			_
	· · ·	Yes	No	_
1 Location Id	entification:			_
а	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	Casing:			
а	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 Pag	ł			
а	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)	V		
е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4 Internal Ca	sing			-
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?	V		
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)	V		
5 Sampling:	Groundwater 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 v	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?	J		
7 Corrective	actions as needed, by date:			-
				_



rmi	it Number		1		
	Well ID:	YAMW-1	1		
rsoi	n Gauging:	Peter Argyakis	1		
	Date:	2/8/2021	1		
	Time:	12:02:00	1		
			Yes	No	
1 I	Location Ide	ntification:			
ć	а	Is the well visible and accessible?	Ø		
ł	b	Is the well properly identified with the correct well ID?	Ø		
C	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:			
á	а	Is the protective casing free from apparent damage and able to be secured?	V		
ł	b	Is the casing free of degradation or deterioration?	V		
C	с	Does the casing have a functioning weep hole?	V		
C	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	V		
3 9	Surface Pad				-
ć	а	Is the well pad in good condition (not cracked or broken)?	V		
ł	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		
e	e	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ng			-
ć	а	Does the cap prevent entry of foreign material into the well?	V		
ł	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		
e	e	Is the depth of the well consistent with the original well log?	Ø		
f	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 9	Sampling: G	roundwater Wells Only:			-
ć	a	Does well recharge adequately when purged?			
ł	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 1	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:			-
			1		



			-		
rm	it Number:		-		
Well ID erson Gauging Date Time 1 Location Id a b		YGWC-36A	-		
		Peter Argyakis	-		
		12:05:00	-		
		12.05.00			
1	l ocation Ide	ntification	163	NO	+
		Is the well visible and accessible?	ব	п	+
a b c		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?			_
	ر ما	Is the drained around the well acceptable? (no standing water, nor is well leasted in obvious			+
	a	drainage flow path)	Ø		_
2	Protective C	asing:			_
i	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				
i	а	Is the well pad in good condition (not cracked or broken)?	Ø		
1	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		
	e	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ng			+
	а	Does the cap prevent entry of foreign material into the well?	Ø		
1	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	c	Is the well properly vented for equilibration of air pressure?	V		
	d	Is the survey point clearly marked on the inner casing?			-
	۵	Is the denth of the well consistent with the original well log?	- -	П	+
1	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 1	Sampling: G	roundwater Wells Only:			-
	a	Does well recharge adequately when purged?		п	-
	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 protessional 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:			



mit Num	iber:	1				
We	II ID: YGWC-24SA	-				
son Gauc	aing: Peter Argyakis					
C	Date: 2/8/2021	1				
т	ime: 12:35:00	1				
		Yes	No			
1 Locatio	Location Identification: a Is the well visible and accessible?					
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 Protect	ive Casing:					
а	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	e Pad	Ì				
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				
e	Is the pad surface clean (not covered with sediment or debris)?	V				
4 Interna	l Casing			-		
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				
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 Sampli	ng: Groundwater 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 o	on your 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 Correct	ive actions as needed, by date:			_		
				_		



mit Number	:	4		
Well ID	: PZ-24IA	_		
son Gauging	Peter Argyakis			
Date	: 2/8/2021	-		
Time	e: 12:47:00			-
1 Location Id	entification:	res	INO	
2	Is the well visible and accessible?	ন		
u h	Is the well properly identified with the correct well ID?			
D 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	Casing:			
а	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	k			
а	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		
<sup>4</sup> Internal Ca	sing			
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?	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: (	Groundwater 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 y	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	actions as needed, by date:			
				-



mit Number:		-			
well ID:	Peter Arovakis	-			
Son Gauging. Date:	2/8/2021	-			
Time	Time: 13:22:00				
		Yes	No	-	
1 Location Ide	entification:				
а	Is the well visible and accessible?				
b	Is the well properly identified with the correct well ID?	V			
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	lasing:				
а	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				-	
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?	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			
e	Is the pad surface clean (not covered with sediment or debris)?	V			
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			
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	iroundwater 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	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?	V			
7 Corrective a	ictions as needed, by date:			_	



mit N	imber:	_		
V	/ell ID: YGWA-211	_		
son Ga	uging: Peter Argyakis	_		
	Date: 2/8/2021	_		
	13:24:00	Voc	No	-
1 Loca	ion Identification:	163	INU	
a	Is the well visible and accessible?			
u b	Is the well properly identified with the correct well ID?			
C 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 Prot	ective Casing:			
а	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 Surfa	ce Pad			
а	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)	V		
е	Is the pad surface clean (not covered with sediment or debris)?	V		
4 Inter	nal Casing			
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?	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 Sam	oling: Groundwater 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 Base	d on your 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 Corr	ective actions as needed, by date:			-
	hy when corrective actions are needed:			



		-		
mit Numbe Wall II	P7.055	-		
	Peter Arovakis	-		
Date	• 2/8/2021	-		
Time	13:40:00			
		Yes	No	
1 Location lo	lentification:			
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	Casing:			
а	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 Pa	d			
а	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		
e	Is the pad surface clean (not covered with sediment or debris)?	V		
4 Internal Ca	ising	Ì		
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?	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)	Ø		
5 Sampling:	Groundwater 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 y	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	actions as needed, by date:			



rmit Nu	nber:	1			
W	ell ID: YGWA-5I	1			
rson Gau	iqing: Peter Argyakis	1			
	Date: 2/8/2021	]			
	Time: 13:43:00				
		Yes	No		
1 Locat	ocation 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?		Ø		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø			
2 Prote	tive Casing:				
а	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 Surfac	e Pad				
а	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)	V			
е	Is the pad surface clean (not covered with sediment or debris)?	V			
4 Intern	al Casing				
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?	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 Samp	ing: Groundwater 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 your 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 reguirements?	V			
7 Corre	ctive actions as needed, by date:			-	



mit Nu	mber	1				
W	Yowa-5D	1				
son Ga	ugina: Peter Argyakis	1				
Jon Ga	Date: 2/8/2021	1				
	Time: 13:44:00	1				
	L	Yes	No			
1 Locat	Location Identification: a Is the well visible and accessible?					
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 Prote	ctive Casing:					
а	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 Surfa	ce 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?	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				
e	Is the pad surface clean (not covered with sediment or debris)?	V				
4 Interi	nal Casing					
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?	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 Samp	ling: Groundwater 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	d on your 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 Corre	ective actions as needed, by date:					
				_		



mit Number		1			
Well ID	PZ-04S	-			
son Gauging	Peter Argyakis				
Date	: 2/8/2021				
Time	: 13:47:00	]			
1 Location Id	entification:				
а	Is the well visible and accessible?	Ø			
b	Is the well properly identified with the correct well ID?	$\mathbf{\nabla}$			
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	Casing:				
а	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 Pac	ł				
а	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)	V			
e	Is the pad surface clean (not covered with sediment or debris)?	Ø			
4 Internal Ca	sing				
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?	V			
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?	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)	Q			
5 Sampling: (	Groundwater 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 y	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	actions as needed, by date:				



	ct Location:	AMA AP-3, A, B and B	-		
rm	it Number:		-		
	Well ID:	YGWA-4I	-		
'SO	n Gauging:	2 (8/2021	-		
	Date:	13:49:00	-		
1 Location Id a b		15.45.00			
1	Location Ide	ntification:	163	NO	
'		Is the well visible and accessible?			-
-	a b	Is the well properly identified with the correct well ID?			-
-	о С	Is the well in a high traffic area and does the well require protection from traffic?		L N	-
-	ر م	Is the drained a round the well accentable? (no standing water, nor is well leasted in obvious			-
	a	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?	V		
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		
-	e	Is the pad surface clean (not covered with sediment or debris)?	V		-
4	Internal Casi	inα			1
	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		+
	c	Is the well properly vented for equilibration of air pressure?	Ø		-
	d	Is the survey point clearly marked on the inner casing?	ন	п	-
-	<u> </u>	Is the depth of the well consistent with the original well log?		-	+
	t	Is the cacing stable? (or does the pue move easily when touched or can it be taken apart by hand		-	-
	1	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	V		
		and 2) comply with the applicable regulatory requirements?	Ø		1
	Carrier	ctions as needed, by date:			1



lec	ct Location:	AMA R6 CCR Landfill	_		
rm	it Number:		-		
Well ID erson Gauging Date Time		YGWC-42	-		
		Peter Argyakis	-		
			-		
		05.26.00			
1 Location Id		ntification	Tes	NO	
'					-
a b c d		Is the well visible and accessible?			_
		Is the well properly identified with the correct well b?			-
-	с	Is the drained around the well acceptable? (no standing water, nor is well leasted in obvious			
	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?	V		
Ł	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)?	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	ing			
	а	Does the cap prevent entry of foreign material into the well?	V		1
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	V		1
	C	Is the well properly vented for equilibration of air pressure?	V		
	d	Is the survey point clearly marked on the inner casing?			+
	<u> </u>	Is the depth of the well consistent with the original well log?			+
	f	Is the casing stable? (or does the pyc 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?	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	V		
		and 2) comply with the applicable regulatory requirements?	V		
7	Corrective a	ctions as needed, by date:	-		+

March 2021 Event



Client:				Georgia Power						
Project Locat	ion:	AMA AP-3, A, B and B'								
Date:			3/2/2021 Peter Argyakis							
Sampler:										
Equipment:		water probe								
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments					
YGWA-5D	3/2/2021	08:05:00	21.88	129.13						
YGWA-5I	3/2/2021	08:09:00	18.19	58.94						
PZ-05S	3/2/2021	08:11:00	18.14	41.94						
PZ-04S	3/2/2021	08:19:00	23.74	33.33						
YGWA-4I	3/2/2021	08:21:00	22.12	48.81						
YGWA-20S	3/2/2021	08:32:00	11.28	29.52						
YGWA-21I	3/2/2021	08:39:00	31.10	79.90						
YGWA-6I	3/2/2021	09:03:00	18.25	69.03						
YGWA-6S	3/2/2021	09:05:00	17.87	39.87						
PZ-06D	3/2/2021	09:07:00	21.22	134.02						
PZ-48	3/2/2021	09:11:00	19.35	58.73						
YGWC-49	3/2/2021	09:18:00	31.50	78.53						
PZ-24IA	3/2/2021	09:27:00	27.68	89.85						
YGWC- 24SA	3/2/2021	09:29:00	27.45	57.00						
YAMW-1	3/2/2021	09:31:00	10.80	69.93						
PZ-35	3/2/2021	09:35:00	11.14	50.01						



Client:		Georgia Power					
Project Locat	ion:	AMA R6 CCR Landfill					
Date:				3/2/2021			
Sampler:				Katie Pupkiewicz			
Equipment:							
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments		
YAMW-5	3/2/2021	08:40:00	13.03	90.34			
YGWC-38	3/2/2021	08:43:00	30.42	50.59			
PZ-37	3/2/2021	08:49:00	11.93	49.78			
YGWA-39	3/2/2021	08:58:00	16.66	68.59			
YGWA-40	3/2/2021	09:05:00	22.39	48.23			
YAMW-4	3/2/2021	09:09:00	30.32	96.55			
YGWC-41	3/2/2021	09:10:00	26.88	67.32			
YAMW-2	3/2/2021	09:15:00	19.75	46.48			
YAMW-3	3/2/2021	09:25:00	34.58	91.44			
YGWC-42	3/2/2021	09:26:00	27.54	59.76			
PZ-51	3/2/2021	09:33:00	6.98	36.00			
YGWC-43	3/2/2021	09:35:00	16.15	79.66			



Page 1 of 1

Client:		Georgia Power					
Project Locat	ion:			AMA R6 CCR Landfill			
Date:		3/2/2021					
Sampler: Peter Argyakis							
Equipment:			water probe				
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments		
YGWC-36A	3/2/2021	09:37:00	10.02	51.20			



Page 1 of 1

Client:				Georgia Power				
Project Locat	ion:			AMA AP-3, A, B and B				
Date:				3/2/2021				
Sampler:				Katie Pupkiewicz				
Equipment:			-					
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments			
YGWA-18S	3/2/2021	08:16:00	18.94	39.97				
YGWA-18I	3/2/2021	08:17:00	22.41	79.97				
YGWA-17S	3/2/2021	08:24:00	08:24:00 11.38 39.85					
YGWC-23S	3/2/2021	08:52:00	16.59	38.91				

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis/Jake Swanson

# Instrument Calibration

Date: 3/01/21 Time: 11:00

Parameter	Units	Standard	SmarTROLL SN 518784	SmarTROLL SN 613960	SmarTROLL SN 532229	SmarTROLL SN 519017
DO	% saturation	100	100	100	100	NA
Conductivity	us/cm	8000	8000	8000	8000	NA
pН	S.U.	4.00	4.00	4.00	4.00	NA
pН	S.U.	7.00	7.00	7.00	7.00	NA
pН	S.U.	10.00	10.00	10.00	10.00	NA
ORP	mV	235.4	235.4	235.4	235.4	NA

		•			
Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219	LaMotte SN 1143-1319
0.0	NTU	0.00	0.00	0.00	NA
10.0	NTU	10.00	10.00	10.00	NA

### Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis/Jake Swanson

## Instrument Calibration

Date: 3/02/21 Time: 10:00

Parameter	Units	Standard	SmarTROLL SN 518784	SmarTROLL SN 613960	SmarTROLL SN 532229	SmarTROLL SN 519017
DO	% saturation	100	100	100	100	NA
Conductivity	us/cm	8000	8000	8000	8000	NA
pН	S.U.	4.00	4.00	4.00	4.00	NA
рН	S.U.	7.00	7.00	7.00	7.00	NA
pН	S.U.	10.00	10.00	10.00	10.00	NA
ORP	mV	232.0	232.0	232.0	232.0	NA

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219	LaMotte SN 1143-1319
0.0	NTU	0.00	0.00	0.00	NA
10.0	NTU	10.00	10.00	10.00	NA

#### Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis/Jake Swanson

Instrument	Calibration

Date:	3/03/21	Time:	07:45

Parameter	Units	Standard	SmarTROLL SN 518784	SmarTROLL SN 613960	SmarTROLL SN 532229	SmarTROLL SN 519017
DO	% saturation	100	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000	8000
pН	S.U.	4.00	4.00	4.00	4.00	4.00
pН	S.U.	7.00	7.00	7.00	7.00	7.00
pН	S.U.	10.00	10.00	10.00	10.00	10.00
ORP	mV	232.0	232.0	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219	LaMotte SN 1143-1319
0.0	NTU	0.00	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00	10.00

## Date: 3/03/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 518784	SmarTROLL SN 613960	SmarTROLL SN 532229	SmarTROLL SN 519017
DO	% saturation	100	100	100	100	NA
Conductivity	us/cm	8000	8000	8000	8000	NA
pН	S.U.	4.00	4.00	4.00	4.00	NA
pН	S.U.	7.00	7.00	7.00	7.00	NA
pН	S.U.	10.00	10.00	10.00	10.00	NA
ORP	mV	232.0	232.0	232.0	232.0	NA

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219	LaMotte SN 1143-1319
0.0	NTU	0.00	0.00	0.00	NA
10.0	NTU	10.00	10.00	10.00	NA

### Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis/Jake Swanson

Instrument	Calibration

Date: 3/04/21 Time: 08:00

Parameter	Units	Standard	SmarTROLL SN 518784	SmarTROLL SN 613960	SmarTROLL SN 532229	SmarTROLL SN 519017
DO	% saturation	100	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000	8000
pН	S.U.	4.00	4.00	4.00	4.00	4.00
pН	S.U.	7.00	7.00	7.00	7.00	7.00
pН	S.U.	10.00	10.00	10.00	10.00	10.00
ORP	mV	232.0	232.0	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219	LaMotte SN 1143-1319
0.0	NTU	0.00	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00	10.00

## Date: 3/04/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 518784	SmarTROLL SN 613960	SmarTROLL SN 532229	SmarTROLL SN 519017
DO	% saturation	100	100	100	100	NA
Conductivity	us/cm	8000	8000	8000	8000	NA
pН	S.U.	4.00	4.00	4.00	4.00	NA
pН	S.U.	7.00	7.00	7.00	7.00	NA
pН	S.U.	10.00	10.00	10.00	10.00	NA
ORP	mV	232.0	232.0	232.0	232.0	NA

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219	LaMotte SN 1143-1319
0.0	NTU	0.00	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00	10.00

### Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate



Project Number	30052922	Well ID	YGWA-17S			Date	03/03/2021
Project Location	ocation AMA AP-3, A, B and B' Wea		Weather(°F)	<b>Teather(°F)</b> 53.6 degrees F and Clear. The wind is blowing N at 9.2 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	29.65	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	11.44	Total Depth (ft- bmp)	39.85	Water Column(ft)	28.41	Gallons in Well	4.62
MP Elevation	783.05	Pump Intake (ft- bmp)	34	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	12:20	Well Volumes Purged	0.19	Sample ID	YGWA-17S	Sampled by	Jake Swanson
Purge Start	11:40	Gallons Purged	0.86	Replicate/ Code No.		Color	Clear
Purge End	12:15						

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)
11:40:19	00:00	100	11.44	5.98	123.43	1.65	6.24	17.0	201.80
11:42:43	02:24	100	11.65	5.75	107.75	11.48	5.50	17.0	272.02
11:47:43	07:24	100	11.65	5.58	97.19	23.84	3.89	16.9	249.22
11:52:43	12:24	100	11.65	5.54	95.43	17.22	2.87	16.7	245.54
11:57:43	17:24	100	11.65	5.53	97.11	9.17	2.66	16.4	243.19
12:02:43	22:24	100	11.65	5.52	97.48	5.24	2.45	16.4	242.51
12:07:43	27:24	100	11.65	5.52	97.19	4.06	2.44	16.3	243.58
12:12:43	32:24	100	11.65	5.52	96.78	4.65	2.40	16.3	244.61

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Chloride,Fluoride SO4	250 mL Plastic	1	None

#### Comments:

LaMotte turbidity reading (elapsed time=NTU): 22:24 = 4.22, 27:24 = 2.39, 32:24 = 1.89

#### 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:	

Condition of Well:

Well Locked at Arrival: Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

ft-bmp = feet below measuring point in = inches ft = feet mL/min = milliliters per minute mS/cm = milliSiemens per centimeterNTU = Nephelometric Turbidity Unit mg/L = milligrams per liter  $\mu S/cm = microSiemens per centimeters$  mV = millivolts °F = degrees Fahrenheit °C = degrees Celsius



Project Number	30053438	Well ID	YGWA-5I			Date	03/02/2021
Project Location	AMA AP-3, A, B and B		Weather(°F)	45.5 degrees F	and Light Rain. The w	ind is blowing E	E at 5.8 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	48.64	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	18.21	Total Depth (ft- bmp)	58.94	Water Column(ft)	40.73	Gallons in Well	6.62
MP Elevation	784.54	Pump Intake (ft- bmp)	53	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:05	Well Volumes Purged	0.30	Sample ID	YGWA-5I	Sampled by	Peter Argyakis
Purge Start	13:30	Gallons Purged	1.98	Replicate/ Code No.		Color	Clear

#### Purge End 14:01

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)
13:30:52	00:00	250	18.21	5.91	96.12	0.42	6.46	17.0	182.12
13:35:52	05:00	250	18.26	5.72	95.57	0.45	6.33	16.4	212.16
13:40:52	10:00	250	18.33	5.64	96.65	1.37	6.46	15.8	226.13
13:45:52	15:00	250	18.4	5.61	97.09	1.04	6.51	15.7	232.09
13:50:52	20:00	250	18.42	5.61	96.00	0.51	6.50	15.7	240.81
13:55:52	25:00	250	18.49	5.62	96.03	0.44	6.73	15.6	244.63
14:00:52	30:00	250	18.53	5.63	96.06	0.24	6.92	15.2	245.00

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

Comments:	LaMotte turbidity readi	ng (time:NTU)			
	1331: 1.65				
	1336: 0.68				
	1346 0 77				
	1351: 1.04				
	1356: 0.67				
	1401: 0.88				
Well Casing Volu	me Conversion				
Well diameter (inch	nes) = gallons per foot	1 = 0.04 1.5 = 0.09 2.5	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	
ft-bmp = feet below	measuring point	mS/cm = milliSiemens	per centimeter	mV = millivolts	
in = inches	01	NTU = Nephelometric	Turbidity Unit	°F = degrees Fahrenheit	
ft = feet		mg/L = milligrams per	liter	°C = degrees Celsius	
mL/min = milliliters	per minute	µS/cm = microSiemen	s per centimeters		



Project Number	30053438	Well ID	YGWA-20S			Date	03/03/2021
Project Location	AMA AP-3, A, B and B		Weather(°F)	44.1 degrees F	and Mostly Cloudy. T	ne wind is blowi	ing N at 8.1 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	19.22	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	11.21	Total Depth (ft- bmp)	29.52	Water Column(ft)	18.31	Gallons in Well	2.98
MP Elevation	767.12	Pump Intake (ft- bmp)	24.5	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:40	Well Volumes Purged	0.58	Sample ID	YGWA-20S	Sampled by	Peter Argyakis
Purge Start	09:07	Gallons Purged	1.72	Replicate/ Code No.		Color	Clear

## Purge End 09:37

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:07:25	00:00	200	11.21	7.31	103.51	4.83	10.44	13.6	96.66
09:12:25	05:00	200	11.27	5.93	74.72	10.12	8.33	14.5	204.04
09:17:25	10:00	200	11.29	5.83	62.58	7.30	8.03	14.3	224.31
09:22:25	15:00	200	11.3	5.82	60.16	4.38	7.92	14.2	227.98
09:27:25	20:00	200	11.3	5.80	58.49	3.64	7.97	14.1	238.50
09:32:25	25:00	200	11.32	5.83	57.97	2.75	7.91	13.9	238.95
09:37:25	30:00	200	11.33	5.89	57.90	2.91	7.89	13.8	241.09

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
Mercury,Metals	250 mL Plastic	1	HNO3
RAD Chem	500 mL Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments:	LaMotte turbidity readi 0907: 4.28 0912: 3.73 0917: 2.81 0922: 3.00 0927: 2.68 0932: 2.76 0937: 2.44	ngs (time:NTU)			
Well Casing Volum	ne Conversion				
Well diameter (inch	es) = gallons per foot	1 = 0.04 1.5 = 0.09 2.5 1.25 = 0.06 2 = 0.16 3	5 = 0.26 3.5 = 0.50 6 = 1.47 = 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	_
ft-bmp = feet below in = inches ft = feet mL/min = milliliters	measuring point	mS/cm = milliSiemens NTU = Nephelometric mg/L = milligrams per μS/cm = microSiemen	per centimeter Turbidity Unit liter s per centimeters	mV = millivolts °F = degrees Fahrenheit °C = degrees Celsius	



Project Number	30053438	Well ID	PZ-35			Date	03/04/2021
Project Location	AMA AP-3, A, B and B'		Weather(°F)	70.3 degrees F	and Clear. The wind is	blowing N at 1	1.4 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	38.91	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	11.1	Total Depth (ft- bmp)	50.01	Water Column(ft)	38.91	Gallons in Well	6.32
MP Elevation	743.81	Pump Intake (ft- bmp)	45	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	15:30	Well Volumes Purged	0.18	Sample ID	PZ-35	Sampled by	Peter Argyakis
Purge Start	15:03	Gallons Purged	1.14	Replicate/ Code No.		Color	Clear

Purge End 15:20

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)
15:03:06	00:00	150	11.1	6.02	0.05	6.22	7.92	26.0	178.05
15:08:06	05:00	150	11.1	5.66	111.72	2.49	6.39	24.9	220.96
15:13:06	10:00	150	11.1	5.64	110.65	2.80	5.91	25.7	227.79
15:18:06	15:00	150	11.1	5.62	107.74	8.17	5.78	26.0	231.44
15:23:06	20:00	150	11.1	5.62	106.49	15.26	5.65	26.4	238.38
15:28:06	25:00	150	11.1	5.64	104.50	2.21	5.57	27.0	234.50

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Mercury,Metals	250 mL Plastic	1	HNO3
Anions	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments:	LaMotte turbidity reading (time:NTU)
	1508: 4.09
	1513: 2.72
	1518: 1.84
	1523: 1.53
	1528: 1.44
Well Casing Vo	lume 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	

mS/cm = milliSiemens per centimeter NTU = Nephelometric Turbidity Unit mg/L = milligrams per liter $\mu S/cm = microSiemens per centimeters$  mV = millivolts °F = degrees Fahrenheit °C = degrees Celsius
.....



Project Number	30052922	Well ID	YGWA-18S			Date	03/03/2021
Project Location	AMA AP-3, A, B and B'		Weather(°F)	59.0 degrees F and Clear. The wind is blowing N at 10.3 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	29.97	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	18.89	Total Depth (ft- bmp)	39.97	Water Column(ft)	21.08	Gallons in Well	3.43
MP Elevation	790.57	Pump Intake (ft- bmp)	35	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	13:50	Well Volumes Purged	0.19	Sample ID	YGWA-18S	Sampled by	Jake Swanson
Purge Start	13:14	Gallons Purged	0.66	Replicate/ Code No.		Color	Clear

Purge End 13:40

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:14:02	00:00	100	18.89	5.74	100.59	13.67	6.07	17.8	211.21
13:19:02	05:00	100	19.5	5.42	78.24	19.66	3.55	19.8	204.88
13:24:02	10:00	100	19.52	5.47	87.48	9.15	3.61	21.1	200.16
13:29:02	15:00	100	19.54	5.41	77.03	2.92	3.71	20.0	203.74

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Chloride,Fluoride SO4	250 mL Plastic	1	None

LaMotte turbidity reading below 5.0 NTU at time of sampling 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

mS/cm = milliSiemens per centimeter NTU = Nephelometric Turbidity Unit mg/L = milligrams per liter µS/cm = microSiemens per centimeters



Project Number	30053438	Well ID	YAMW-1			Date	03/03/2021	
Project Location	n AMA AP-3, A, B and B'		Weather(°F)	64.0 degrees F and Clear. The wind is blowing NW at 5.8 mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	59.6	Casing Diameter (in)	2	Well Casing Material	PVC	
Static Water Level (ft-bmp)	10.98	Total Depth (ft- bmp)	69.93	Water Column(ft)	58.95	Gallons in Well	9.58	
MP Elevation	743.83	Pump Intake (ft- bmp)	65	Purge Method	Low-Flow	Sample Method	Low-Flow	
Sample Time	15:15	Well Volumes Purged	0.11	Sample ID	YAMW-1	Sampled by	Peter Argyakis	
Purge Start	14:42	Gallons Purged	1.06	Replicate/ Code No.		Color	Clear	

### Purge End 15:12

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:42:21	00:00	200	10.98	6.51	126.29	2.49	8.23	19.7	220.69
14:47:21	05:00	100	11.23	6.47	128.90	2.27	7.64	20.5	208.16
14:52:21	10:00	100	11.27	6.51	137.25	0.92	6.86	20.7	201.71
14:57:21	15:00	100	11.4	6.51	154.98	0.67	5.52	20.8	198.37
15:02:21	20:00	100	11.49	6.54	169.72	0.67	4.38	21.2	193.24
15:07:21	25:00	100	11.52	6.54	171.24	0.41	4.22	22.1	190.38
15:12:21	30:00	100	11.54	6.54	172.50	0.74	4.21	23.2	189.22

Container	Number	Preservative
250 mL Plastic	1	SO4
250 mL Plastic	1	HNO3
500 mL Plastic	1	None
1L Plastic	2	HNO3
	Container 250 mL Plastic 250 mL Plastic 500 mL Plastic 1L Plastic	ContainerNumber250 mL Plastic1250 mL Plastic1500 mL Plastic11L Plastic2

LaMotte turbidity readi	ings (time:NTU)			
1442: 1.38				
1447: 0.84				
1452: 0.67				
1502: 1.58				
1507: 2.03				
1512: 1.10				
me Conversion				
nes) = gallons per foot	1 = 0.04 1.5 = 0.09 2.5	5 = 0.26 3.5 = 0.50 6 = 1.47		
	1.25 = 0.06 2 = 0.16 3	$= 0.37 \ 4 = 0.65$		
:		Well Locked at Arrival:		
:		Well Locked at Departure:		
NA		Key Number To Well:	NA	
measuring point	mS/cm = milliSiemens	s per centimeter	mV = millivolts	
	NIU = Nephelometric	lurbidity Unit	$^{\circ}F = degrees Fanrenneit $	
per minute	µS/cm = microSiemen	s per centimeters		
	LaMotte turbidity readi 1442: 1.38 1447: 0.84 1452: 0.67 1457: 1.15 1502: 1.58 1507: 2.03 1512: 1.10 <b>ne Conversion</b> <b>nes</b> ) = gallons per foot	LaMotte turbidity readings (time:NTU) 1442: 1.38 1447: 0.84 1452: 0.67 1457: 1.15 1502: 1.58 1507: 2.03 1512: 1.10 <b>ne Conversion</b> nes) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 1.25 = 0.06 2 = 0.16 3 	LaMotte turbidity readings (time:NTU)         1442: 1.38         1447: 0.84         1452: 0.67         1457: 1.15         1502: 1.58         1507: 2.03         1512: 1.10         ne Conversion         res) = 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 Locked at Arrival:         Well Locked at Arrival:         Well Locked at Departure:         MA         measuring point         mS/cm = milliSiemens per centimeter         NTU = Nephelometric Turbidity Unit         mg/L = milligrams per liter         µS/cm = microSiemens per centimeters	LaMotte turbidity readings (time:NTU) 1442: 1.38 1447: 0.84 1452: 0.67 1457: 1.15 1502: 1.58 1507: 2.03 1512: 1.10 <b>ne Conversion</b> tes) = 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 Locked at Arrival: Well Locked at Departure: Well Locked at Departure: NA Well Locked at Departure: Common Signature of the probability Unit of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probability of the probabilit



Project Number	30053438	Well ID	YGWA-5D			Date	03/02/2021
Project Location	AMA AP-3, A, B and B'		Weather(°F)	Cloudy			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	78.83	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	21.95	Total Depth (ft- bmp)	129.13	Water Column(ft)	107.18	Gallons in Well	17.42
MP Elevation	784.53	Pump Intake (ft- bmp)	124	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	15:40	Well Volumes Purged	0.02	Sample ID	YGWA-5D	Sampled by	Peter Argyakis
Purge Start	14:25	Gallons Purged	0.26	Replicate/ Code No.	DUP-1	Color	Clear

Purge End 14:35

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:25:44	00:00	100	21.95	7.12	221.71	0.20	7.08	12.2	-68.91
14:30:44	05:00	100	21.95	7.14	221.80	0.17	6.42	12.2	-76.27
14:35:44	10:00	100	21.95	7.15	222.28	0.17	5.33	12.2	-76.29

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

LaMotte turbidity readings (time:NTU) Comments: 1425: 3.09 1430: 3.31 1435: 1.72

#### Well Casing Volume Conversion

. , , , , , , , , , , , , , , , , , , ,	1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65	
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: Condition of Well:

Well Locked at Arrival:

Well Completion: NA

Well Locked at Departure:

Key Number To Well: NA

mS/cm = milliSiemens per centimeter NTU = Nephelometric Turbidity Unit mg/L = milligrams per liter µS/cm = microSiemens per centimeters



Project Number	30052922	Well ID	YGWC-23S			Date	03/04/2021	
Project Location	AMA AP-3, A, B and B'		Weather(°F)	66.2 degrees F and Clear. The wind is blowing N at 13.9 mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	28.61	Casing Diameter (in)	2	Well Casing Material	PVC	
Static Water Level (ft-bmp)	16.49	Total Depth (ft- bmp)	38.91	Water Column(ft)	22.42	Gallons in Well	3.64	
MP Elevation	764.91	Pump Intake (ft- bmp)	33	Purge Method	Low-Flow	Sample Method	Low-Flow	
Sample Time	12:15	Well Volumes Purged	0.16	Sample ID	YGWC-23S	Sampled by	Jake Swanson	
Purge Start	11:42	Gallons Purged	0.57	Replicate/ Code No.		Color	Clear	

Purge End 12:05

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)
11:42:39	00:00	100	16.49	5.83	186.51	0.49	8.42	19.2	151.60
11:43:16	00:37	100	16.49	5.73	186.11	1.37	8.46	19.4	157.66
11:49:09	06:30	100	16.69	5.47	193.21	1.64	8.07	19.1	180.67
11:54:09	11:30	100	16.7	5.45	195.04	3.31	8.11	19.3	189.70
11:59:09	16:30	100	16.71	5.44	193.82	0.84	8.10	19.1	195.16
12:04:09	21:30	100	16.71	5.44	191.99	0.00	7.78	19.3	200.90

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Chloride,Fluoride SO4	250 mL Plastic	1	None

Comments:	mments: LaMotte turbidity readings (elapsed time=NTU)							
	11:30=2.12, 16:30=2.02, 21:30=1.88							
Well Casing Volum	e Conversion							
Well diameter (inche	s) = 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

mS/cm = milliSiemens per centimeter NTU = Nephelometric Turbidity Unit mg/L = milligrams per liter $\mu S/cm = microSiemens per centimeters$ 



Project Number	30053438	Well ID	YGWA-21I			Date	03/04/2021
Project Location	AMA AP-3, A, B and B'		Weather(°F)	It is Clear. The	wind is blowing N at 10	).3 mph.	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.6	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	31.23	Total Depth (ft- bmp)	79.9	Water Column(ft)	48.67	Gallons in Well	7.91
MP Elevation	783.7	Pump Intake (ft- bmp)	75	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:35	Well Volumes Purged	0.12	Sample ID	YGWA-21I	Sampled by	Peter Argyakis
Purge Start	09:04	Gallons Purged	0.92	Replicate/ Code No.		Color	Clear

### Purge End 09:34

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:04:36	00:00	100	31.23	6.83	222.21	1.57	5.53	16.4	-17.54
09:09:36	05:00	100	31.25	6.89	171.04	2.30	3.41	16.0	-54.51
09:14:36	10:00	100	31.33	6.89	163.94	1.15	2.20	15.6	-63.05
09:19:36	15:00	100	31.34	6.88	160.47	0.59	1.54	15.5	-60.87
09:24:36	20:00	100	31.4	6.83	159.33	0.49	1.50	15.5	-52.55
09:29:36	25:00	100	31.4	6.80	158.96	0.43	1.51	15.5	-48.96
09:34:36	30:00	100	31.4	6.80	158.80	0.35	1.50	15.5	-45.88

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Mercury,Metals	250 mL Plastic	1	HNO3
Anions	250 mL Plastic	1	SO4

Comments:	LaMotte turbidity readi 0904: 1.85 0909: 2.66 0914: 1.90 0919: 1.47 0924: 1.62 0929: 2.05 0934: 2.33	ngs (time:NTU)			
Well Casing Volun	ne Conversion				
Well diameter (inch	es) = gallons per foot	1 = 0.04 1.5 = 0.09 2.5 1.25 = 0.06 2 = 0.16 3	= 0.26 3.5 = 0.50 6 = 1.47 = 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	-
ft-bmp = feet below in = inches ft = feet mL/min = milliliters	measuring point	mS/cm = milliSiemens NTU = Nephelometric mg/L = milligrams per l μS/cm = microSiemens	per centimeter Turbidity Unit iter s per centimeters	mV = millivolts °F = degrees Fahrenheit °C = degrees Celsius	-



Project Number	30052922	Well ID	YGWC-49			Date	03/04/2021	
Project Location	roject Location AMA AP-3, A, B and B'		Weather(°F)	69.4 degrees F and Clear. The wind is blowing N at 8.1 mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	68.03	Casing Diameter (in)	2	Well Casing Material	PVC	
Static Water Level (ft-bmp)	31.33	Total Depth (ft- bmp)	78.53	Water Column(ft)	47.2	Gallons in Well	7.67	
MP Elevation	782.73	Pump Intake (ft- bmp)	73	Purge Method	Low-Flow	Sample Method	Low-Flow	
Sample Time	14:50	Well Volumes Purged	0.10	Sample ID	YGWC-49	Sampled by	Katie Pupkiewicz	
Purge Start	14:32	Gallons Purged	0.77	Replicate/ Code No.	FB-02	Color	Clear	

Purge End 14:48

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:32:16	00:00	200	31.95	6.63	259.53	0.53	7.37	20.3	182.33
14:37:16	05:00	140	32.25	5.93	259.23	0.50	3.34	19.6	191.71
14:42:16	10:00	140	32.07	5.88	257.97	0.55	3.22	19.6	198.40
14:47:16	15:00	140	32.06	5.88	254.81	0.41	2.92	19.8	199.29

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Chloride,Fluoride and SO4	250 mL Plastic	1	None

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log 0.94 1.70

#### 1.18 1.09

### 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

mS/cm = milliSiemens per centimeterNTU = Nephelometric Turbidity Unit mg/L = milligrams per liter  $\mu S/cm = microSiemens per centimeters$ 



Project Number	30053438	Well ID	YGWC-24SA			Date	03/03/2021
Project Location	AMA AP-3, A, B and B		Weather(°F)	53.6 degrees F	and Clear. The wind is	s blowing N at S	9.2 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	47	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	28.05	Total Depth (ft- bmp)	57	Water Column(ft)	28.95	Gallons in Well	4.7
MP Elevation	765	Pump Intake (ft- bmp)	52	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	11:50	Well Volumes Purged	0.31	Sample ID	YGWC-24SA	Sampled by	Peter Argyakis
Purge Start	11:25	Gallons Purged	1.45	Replicate/ Code No.	DUP-2	Color	Clear

Purge End 11:45

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:25:25	00:00	200	28.05	6.07	93.54	3.03	7.55	17.9	228.00
11:30:25	05:00	200	28.05	5.80	79.73	3.81	6.77	18.7	243.15
11:35:25	10:00	300	28.05	5.71	78.78	1.51	6.73	17.8	253.34
11:40:25	15:00	300	28.05	5.70	77.05	1.28	6.59	18.1	258.58
11:45:25	20:00	300	28.05	5.70	79.20	1.52	6.56	18.2	260.52

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Mercury,Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Anions	250 mL Plastic	1	SO4

Comments: LaMotte turbidity rea 1125: 2.25 1130: 3.18 1135: 2.34 1140: 1.89 1145: 2.03	dings (time:NTU)
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 Completion: NA

Well Locked at Departure:

Key Number To Well: NA



Project Number	30053438	Well ID	YGWA-4I			Date	03/03/2021
Project Location	AMA AP-3, A, B and B'		Weather(°F)	50.0 degrees F	and Clear. The wind is	s blowing N at 1	0.3 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	38.51	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	24.32	Total Depth (ft- bmp)	48.81	Water Column(ft)	24.49	Gallons in Well	3.98
MP Elevation	784.21	Pump Intake (ft- bmp)	45	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	10:35	Well Volumes Purged	0.17	Sample ID	YGWA-4I	Sampled by	Peter Argyakis
Purge Start	10:18	Gallons Purged	0.66	Replicate/ Code No.		Color	Clear

Purge End 10:33

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:18:33	00:00	200	24.32	6.08	150.39	4.93	6.36	14.7	247.14
10:23:33	05:00	100	24.48	6.20	154.45	0.27	4.11	14.8	240.12
10:28:33	10:00	100	24.55	6.20	152.74	0.16	3.99	14.8	239.85
10:33:33	15:00	100	24.67	6.21	150.47	0.17	4.11	14.6	239.77

Constituent Sampled	Container	Number	Preservative	
Anions	250 mL Plastic	1	None	
Mercury,Metals	250 mL Plastic	1	HNO3	
RAD Chem	1L Plastic	2	HNO3	
TDS	500 mL Plastic	1	None	

Comments:	LaMotte turbidity readings (time:NTU) 1018: 1.03 1023: 1.59 1028: 0.76 1033: 1.14
	1033: 1.14

### 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	

mS/cm = milliSiemens per centimeter NTU = Nephelometric Turbidity Unit mg/L = milligrams per liter $\mu S/cm = microSiemens per centimeters$ 



Project Number	30053438	Well ID	YAMW-2			Date	03/03/2021
Project Location	AMA R6 CCR Landfill		Weather(°F)	60.8 degrees F	and Clear. The wind is	blowing N/NW	at 11.4 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	36.44	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	19.85	Total Depth (ft- bmp)	46.48	Water Column(ft)	26.63	Gallons in Well	4.33
MP Elevation	781.04	Pump Intake (ft- bmp)	42	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	13:34	Well Volumes Purged	0.40	Sample ID	YAMW-2	Sampled by	Peter Argyakis
Purge Start	13:34	Gallons Purged	1.72	Replicate/ Code No.		Color	Clear

Purge End 14:04

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)
13:44:02	10:00	200	19.85	5.71	59.21	4.33	5.42	20.3	151.20
13:49:02	15:00	200	19.85	5.69	58.47	5.00	5.13	20.3	167.02
13:54:02	20:00	200	19.85	5.67	58.68	2.52	4.97	20.1	180.86
13:59:02	25:00	200	19.85	5.65	58.97	2.55	4.97	20.2	187.85
14:04:02	30:00	200	19.85	5.67	59.05	1.90	4.95	20.7	189.97

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	SO4
Mercury,Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	None

Comments:	LaMotte turbidity readi 1334: 3.32 1339: 2.61 1344: 2.90 1349: 2.55 1354: 1.63 1359: 2.08 1404: 1.35	ngs (time:NTU)			
Well Casing Volur	ne Conversion				
Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 1.25 = 0.06 2 = 0.16 3 =			5 = 0.26 3.5 = 0.50 6 = 1.47 = 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		

 $\begin{array}{l} mS/cm = milliSiemens \ per \ centimeter \\ NTU = Nephelometric \ Turbidity \ Unit \\ mg/L = milligrams \ per \ liter \\ \mu S/cm = microSiemens \ per \ centimeters \end{array}$ 



Project Number	30052922	Well ID	PZ-37			Date	03/04/2021
Project Location	AMA R6 CCR Landfill		Weather(°F)				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	39.28	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	11.85	Total Depth (ft- bmp)	49.78	Water Column(ft)	37.93	Gallons in Well	6.16
MP Elevation	760.78	Pump Intake (ft- bmp)	45	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	11:55	Well Volumes Purged	0.14	Sample ID	PZ-37	Sampled by	Katie Pupkiewicz
Purge Start	11:34	Gallons Purged	0.85	Replicate/ Code No.		Color	Clear

Purge End 11:51

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)
11:34:59	00:00	180	12.02	5.68	1510.62	0.09	6.36	18.5	203.06
11:39:59	05:00	180	12.07	5.54	1425.18	0.00	1.16	19.8	225.54
11:44:59	10:00	180	12.07	5.51	1436.50	0.00	0.73	20.2	234.96
11:49:59	15:00	180	12.1	5.51	1423.21	0.12	0.63	20.0	242.65

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Chloride,Fluoride and SO4	250 mL Plastic	1	None

Comments:

1.40 1.62 1.54

1.24

### 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	

mS/cm = milliSiemens per centimeterNTU = Nephelometric Turbidity Unit mg/L = milligrams per liter  $\mu S/cm = microSiemens per centimeters$ 

LaMotte turbidity readings taken every five minutes accordance with VuSitu purge log



Project Number	30052922	Well ID	YGWC-38			0	Date	03/04/2021
Project Location	AMA R6 CCR Landfill		Weather(°F)					
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	39.59	Casing Diameter (in)	2	V	Vell Casing Aaterial	PVC
Static Water Level (ft-bmp)	30.22	Total Depth (ft- bmp)	50.59	Water Column(ft)	20.37	C V	Gallons in Vell	3.31
MP Elevation	799.69	Pump Intake (ft- bmp)	45	Purge Method	Low-Flow	S N	Sample Nethod	Low-Flow
Sample Time	13:45	Well Volumes Purged	0.24	Sample ID	YGWC-3	3 <b>S</b>	Sampled by	Katie Pupkiewicz
Purge Start	13:23	Gallons Purged	0.79	Replicate/ Code No.		C	Color	Clear
Purge End	13:43							
	Total	Depth to	nH S	necific		Dissolved		

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)
13:23:01	00:00	140	30.83	6.07	884.21	0.87	7.95	21.2	224.62
13:28:01	05:00	120	31.26	5.07	840.89	5.57	4.72	19.8	227.82
13:33:01	10:00	120	31.34	5.01	919.53	2.32	4.20	19.7	227.67
13:38:01	15:00	120	31.4	5.02	915.37	1.30	4.02	20.1	226.86
13:43:01	20:00	120	31.47	5.01	914.31	0.81	3.96	20.1	233.18

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Chloride,Fluoride and SO4	250 mL Plastic	1	None

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log
1.15
3.96
3.40

# 0.97 Well Casing Volume Conversion

1.49

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 Completion: NA

Well Locked at Departure:

Key Number To Well: NA



Project Number	30053438	Well ID	YAMW-5			Date	03/04/2021
Project Location	AMA R6 CCR Landfill		Weather(°F)	67.8 degrees F	and Clear. The wind is	s blowing N at 8	3.1 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	80.3	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	13.41	Total Depth (ft- bmp)	90.34	Water Column(ft)	76.93	Gallons in Well	12.5
MP Elevation	788.9	Pump Intake (ft- bmp)	86	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:15	Well Volumes Purged	0.11	Sample ID	YAMW-5	Sampled by	Peter Argyakis
Purge Start	13:45	Gallons Purged	1.32	Replicate/ Code No.		Color	Clear

Purge End 14:10

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)
13:45:32	00:00	200	13.41	4.90	0.06	0.28	8.21	21.8	231.42
13:50:32	05:00	200	13.55	5.29	821.37	0.04	7.07	21.6	238.12
13:55:32	10:00	200	13.62	5.29	825.45	0.00	6.69	21.3	260.54
14:00:32	15:00	200	13.7	5.29	827.79	0.00	6.00	22.7	267.99
14:05:32	20:00	200	13.77	5.31	826.69	0.00	6.18	22.3	270.92
14:10:32	25:00	200	13.86	5.32	833.39	0.02	5.65	24.1	266.64

Constituent Sampled	Container	Number	Preservative
Mercury, Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Anions	250 mL Plastic	1	None

Comments:         LaMotte turbidity rea           1345: 1.26         1350: 1.50           1355: 1.78         1400: 0.79           1405: 1.48         1410: 1.12           Well Casing Volume Conversion	dings (time:NTU)
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 Completion: NA

Well Locked at Departure:

Key Number To Well: NA

ft-bmp = feet below measuring point in = inches ft = feet mL/min = milliliters per minute mS/cm = milliSiemens per centimeter NTU = Nephelometric Turbidity Unit mg/L = milligrams per liter $\mu S/cm = microSiemens per centimeters$ 



Project Number	30053438	Well ID	YAMW-4			Date	03/03/2021
Project Location	AMA R6 CCR Landfill		Weather(°F)	59.0 degrees F	and Clear. The wind is	blowing N at 1	0.3 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	86.59	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	30.77	Total Depth (ft- bmp)	96.55	Water Column(ft)	65.78	Gallons in Well	10.69
MP Elevation	805.59	Pump Intake (ft- bmp)	64	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	13:05	Well Volumes Purged	0.07	Sample ID	YAMW-4	Sampled by	Peter Argyakis
Purge Start	12:40	Gallons Purged	0.79	Replicate/ Code No.		Color	Clear

Purge End 13:00

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)
12:40:15	00:00	200	30.77	6.83	457.48	1.29	4.62	19.7	-108.44
12:45:15	05:00	100	30.98	6.83	450.29	1.48	2.85	20.3	-113.87
12:50:15	10:00	100	30.11	6.82	449.08	0.80	2.44	20.3	-120.01
12:55:15	15:00	100	30.15	6.81	449.07	0.56	1.86	20.1	-124.66
13:00:15	20:00	100	30.29	6.80	448.30	0.57	1.87	20.2	-129.14

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	SO4
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Mercury,Metals	250 mL Plastic	1	HNO3

Comments: Well Casing Volur	LaMotte turbidity readi 1240: 1.60 1245: 1.74 1250: 1.14 1255: 0.82 1300: 0.97 ne Conversion	ngs (time:NTU)			
Well diameter (inch	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

ft-bmp = feet below measuring point in = inches ft = feet mL/min = milliliters per minute mS/cm = milliSiemens per centimeter NTU = Nephelometric Turbidity Unit mg/L = milligrams per liter $\mu S/cm = microSiemens per centimeters$ 



Project Numbe	er 30052922	2	Well ID	YGWA-4	40			Date	03/04/2	2021
Project Locati	on AMA R6 (	CCR Landfill		Weathe	r(°F)					
Measuring Pt. Description	Top of Inr	er Casing	Screen Setting (ft-bmp	<b>)</b> 37.73	Casing Diameter	. (in) 2		Well Casing Material	PVC	
Static Water Level (ft-bmp)	22.32		Total Depth (ft- bmp)	48.23	Water Column(	ft) 25.91		Gallons in Well	4.21	
MP Elevation	815.73		Pump Intake (f bmp)	<b>t-</b> 42	Purge M	ethod Low-Fla	W	Sample Method	Low-F	low
Sample Time	10:10		Well Volumes Purged	0.37	Sample I	D YGWA-	40	Sampled by	Katie F	Pupkiewicz
Purge Start	09:37		Gallons Purge	<b>d</b> 1.56	Replicate Code No	e/		Color	Clear	
Purge End	10:08									
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)
09:37:23	00:00	180	23	5.38	144.05	0.00	5.44	17.0		210.82
09:42:23	05:00	180	23.13	5.28	138.52	0.00	4.34	17.3		224.47
09:47:23	10:00	180	23.06	5.24	143.84	0.00	3.93	17.6		227.41
09:52:23	15:00	180	23.14	5.24	148.10	0.00	3.89	17.8		226.63

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Chloride,Fluoride and SO4	250 mL Plastic	1	None

140.85

141.20

138.12

0.00

0.00

0.00

3.83

3.79

3.74

17.9

17.9

17.9

224.06

230.38

232.86

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log
0.45
0.63
0.38
0.42
0.40
0.44

23.11

23.12

23.11

5.23

5.22

5.23

### Well Casing Volume Conversion

0.36

09:57:23

10:02:23

10:07:23

20:00

25:00

30:00

180

180

180

· · · · · · · · · · · · · · · · · · ·					
Well diameter (inches) = gallons per foot		1 = 0.04 1.5 = 0.09 2.5 1.25 = 0.06 2 = 0.16 3	5 = 0.26 3.5 = 0.50 6 = 1.47 = 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	
ft-bmp = feet below in = inches ft = feet mL/min = milliliters	measuring point	mS/cm = milliSiemens NTU = Nephelometric mg/L = milligrams per µS/cm = microSiemen	per centimeter Turbidity Unit liter s per centimeters	mV = millivolts °F = degrees Fahrenheit °C = degrees Celsius	



Project Number	30052922	Well ID	YGWC-42			Date	03/04/2021
Project Location	AMA R6 CCR Landfill		Weather(°F)	It is Clear. The	wind is blowing N at 10	).3 mph.	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	49.36	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	27.47	Total Depth (ft- bmp)	59.76	Water Column(ft)	32.29	Gallons in Well	5.25
MP Elevation	797.86	Pump Intake (ft- bmp)	55	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	08:45	Well Volumes Purged	0.12	Sample ID	YGWC-42	Sampled by	Katie Pupkiewicz
Purge Start	08:24	Gallons Purged	0.63	Replicate/ Code No.		Color	Clear

### Purge End 08:41

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
08:24:57	00:00	180	28.37	5.83	1666.83	0.00	5.72	13.8	224.90
08:29:57	05:00	100	29.37	5.59	1660.04	0.00	2.02	15.8	222.94
08:34:57	10:00	100	29.37	5.59	1652.86	0.00	2.05	15.6	226.71
08:39:57	15:00	100	29.38	5.59	1651.55	0.00	1.88	15.9	227.39

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Chloride,Fluoride and SO4	250 mL Plastic	1	None

LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log 1.46 0.90

#### 1.01 0.81

#### Well Casing Volume Conversion

Comments:

Well diameter (inches) = gallons per foot	t 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

mS/cm = milliSiemens per centimeterNTU = Nephelometric Turbidity Unit mg/L = milligrams per liter  $\mu S/cm = microSiemens per centimeters$ 

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Project Number	30052922	Well ID	YGWC-41			Date	03/04/2021
Project Location	AMA R6 CCR Landfill		Weather(°F)	It is Clear. The	wind is blowing N at 11	.4 mph. 40 F	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	56.82	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	26.81	Total Depth (ft- bmp)	67.32	Water Column(ft)	40.51	Gallons in Well	6.58
MP Elevation	803.92	Pump Intake (ft- bmp)	62	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:00	Well Volumes Purged	0.11	Sample ID	YGWC-41	Sampled by	Jake Swanson
Purge Start	08:25	Gallons Purged	0.70	Replicate/ Code No.		Color	Clear

#### Purge End 08:50

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)
08:25:52	00:00	100	26.81	4.68	441.39	0.00	9.75	12.2	237.26
08:30:52	05:00	100	27.48	4.72	361.87	0.00	4.95	14.8	230.97
08:35:52	10:00	100	27.5	4.68	336.62	0.00	4.53	15.3	237.70
08:40:52	15:00	100	27.51	4.68	320.54	0.00	4.39	15.7	239.87
08:45:52	20:00	100	27.53	4.70	319.63	0.00	4.28	15.7	245.30
08:50:52	25:00	100	27.55	4.71	322.09	0.00	4.21	16.0	248.43
08:52:30	26:38	100	27.55	4.69	323.62	0.00	4.22	16.1	292.69

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Chloride,Fluoride SO4	250 mL Plastic	1	None

#### Comments: LaMotte turbidity readings (time elapsed=NTU) 15:00 = 0.26, 20:00 = 0.18, 25:00 = 0.15

### 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:

Condition of Well:

Well Completion: NA

Well Locked at Arrival: Well Locked at Departure:

Key Number To Well: NA

ft-bmp = feet below measuring point in = inches ft = feet mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter NTU = Nephelometric Turbidity Unit mg/L = milligrams per liter µS/cm = microSiemens per centimeters



Project Number	30052922	Well ID	YGWA-39			Date	03/04/2021
Project Location	AMA R6 CCR Landfill		Weather(°F)	70.5 degrees F	and Clear. The wind is	s blowing NW a	at 8.1 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	58.09	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	16.59	Total Depth (ft- bmp)	68.59	Water Column(ft)	52	Gallons in Well	8.45
MP Elevation	818.19	Pump Intake (ft- bmp)	63	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	10:20	Well Volumes Purged	0.06	Sample ID	YGWA-39	Sampled by	Jake Swanson
Purge Start	09:53	Gallons Purged	0.53	Replicate/ Code No.		Color	Clear

### Purge End 10:15

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:53:02	00:00	100	16.59	6.25	228.95	0.00	6.98	15.6	147.02
09:58:02	05:00	100	16.79	5.71	244.96	0.00	2.43	16.5	67.77
10:03:02	10:00	100	16.79	5.63	256.80	0.00	1.38	16.8	83.04
10:08:02	15:00	100	16.79	5.60	259.73	0.00	1.12	17.2	91.98
10:13:02	20:00	100	16.8	5.54	260.59	0.00	1.05	17.5	92.55

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Mercury,Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Anions	250 mL Plastic	1	None

Comments:	LaMotte turbidity readings (time elapsed:NTU)
	10:00=0.21, 15:00=0.16, 20:00=0.11

### 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
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#### Well Information

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

mS/cm = milliSiemens per centimeterNTU = Nephelometric Turbidity Unit mg/L = milligrams per liter  $\mu S/cm = microSiemens per centimeters$ 



Project Numbe	er 30053438		Well ID	YGWC-3	36A			Date	03/04/2021
Project Location	on AMA R6 C	CR Landfill		Weathe	r(°F) 59.9 degre	es F and Clea	r. The wind is	blowing N at ?	13.9 mph.
Measuring Pt. Description	Top of Inn	er Casing	Screen Setting (ft-bmp	689.7	Casing Diameter	(in) <sup>2</sup>		Well Casing Material	PVC
Static Water Level (ft-bmp)	9.94		Total Depth (ft- bmp)	51.2	Water Column(ft	<b>)</b> 41.26		Gallons in Well	6.7
MP Elevation	739.61		Pump Intake (f bmp)	<b>t-</b> 46	Purge Met	thod Low-Flor	W	Sample Method	Low-Flow
Sample Time	12:35		Well Volumes Purged	0.45	Sample ID	YGWA-3	36A	Sampled by	Peter Argyakis
Purge Start	10:43		Gallons Purge	<b>d</b> 3.04	Replicate/ Code No.	,		Color	Clear
Purge End	13:53								
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	ure Redox (mV)
10:43:22	00:00	100	10.11	5.54	106.15	31.57	6.06	18.0	206.13
10:48:22	05:00	100	10.11	5.51	102.44	29.05	5.10	17.7	209.16
10:53:22	10:00	100	10.11	5.51	103.72	21.35	4.63	18.2	211.18
10:58:22	15:00	100	10.11	5.62	106.68	14.27	4.54	18.7	208.12
11:03:22	20:00	100	10.11	5.70	111.86	30.39	4.47	19.3	204.71
11:08:22	25:00	100	10.11	5.72	107.54	13.73	4.52	19.3	208.65
11:13:22	30:00	100	10.11	5.75	109.71	15.14	4.48	19.6	208.35
11:18:22	35:00	100	10.11	5.74	109.80	11.77	4.42	19.7	209.56
11:23:22	40:00	100	10.11	5.73	108.84	14.67	4.44	19.9	210.09
11:28:22	45:00	100	10.11	5.73	104.67	6.64	4.45	20.1	215.75
11:33:22	50:00	100	10.11	5.73	105.28	13.87	4.43	20.0	217.80
11:38:22	55:00	100	10.11	5.73	103.70	9.20	4.37	20.4	216.35
11:43:22	00:00	100	10.11	5.71	102.45	11.45	4.36	20.6	211.38
11:48:22	05:00	100	10.11	5.71	102.11	5.32	4.44	20.6	216.29
11:53:22	10:00	100	10.11	5.70	106.26	5.35	4.47	20.8	219.59
11:58:22	15:00	100	10.11	5.69	101.21	3.92	4.47	20.5	223.37
12:03:22	20:00	100	10.11	5.70	103.72	8.98	4.48	20.8	226.44
12:08:22	25:00	100	10.11	5.69	101.33	7.19	4.45	20.9	231.35
12:13:22	30:00	100	10.11	5.69	101.59	3.58	4.45	21.0	232.52
12:18:22	35:00	100	10.11	5.71	72.15	6.29	8.58	21.8	228.62
12:23:22	40:00	100	10.11	5.68	97.23	3.47	7.93	21.0	233.00
12:28:22	45:00	100	10.11	5.66	96.73	5.84	7.84	20.8	237.26
12:33:22	50:00	100	10.11	5.67	95.32	3.24	7.76	21.1	237.67

ft-bmp = feet below measuring point in = inches ft = feet mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter NTU = Nephelometric Turbidity Unit mg/L = milligrams per liter µS/cm = microSiemens per centimeters

mV = millivolts

°F = degrees Fahrenheit °C = degrees Celsius



Constituent Sampled	Container	Number	Preservative	
Anions	250 mL Plastic	1	None	
RAD Chem	1L Plastic	2	HNO3	
Mercury,Metals	250 mL Plastic	1	HNO3	
TDS	500 mL Plastic	1	None	

Comments:	LaMotte turbidity readia 1043: 22.8 1048: 26.8 1053: 20.3 1058: 18.4 1103: 17.9 1108: 15.6 1113: 12.6 1113: 9.19 1123: 9.34 1128: 8.49 1133: 7.13 1138: 7.14 1143: 7.13 1148: 6.44 1153: 5.25 1158: 4.88 1203: 4.67 1208: 4.79 1213: 5.73 1318: 4:25 1323: 4.97 1328: 4:53	ngs (time:NTU)			
	Mid sample: 4.33 End of sample: 4.29				
Well Casing Volum	ne Conversion				
Well diameter (inches) = gallons per foot		1 = 0.04 1.5 = 0.09 2 1.25 = 0.06 2 = 0.16 3	5 = 0.26 3.5 = 0.50 6 = 1.47 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	



Project Number	30052922	Well ID	YGWC-43			Date	03/04/2021
Project Location	AMA R6 CCR Landfill		Weather(°F)	69.4 degrees F	and Clear. The wind is	s blowing N/NW	/ at 13.9 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.16	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	16.25	Total Depth (ft- bmp)	79.66	Water Column(ft)	63.41	Gallons in Well	10.3
MP Elevation	744.96	Pump Intake (ft- bmp)	74	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:50	Well Volumes Purged	0.04	Sample ID	YGWC-43	Sampled by	Jake Swanson
Purge Start	14:28	Gallons Purged	0.40	Replicate/ Code No.	FB-01	Color	Clear

Purge End 14:43

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)
14:28:16	00:00	100	16.25	7.14	687.49	0.93	7.88	24.2	-95.82
14:33:16	05:00	100	16.45	5.80	636.28	5.16	8.89	20.7	-51.83
14:38:16	10:00	100	16.47	5.85	644.46	0.00	8.84	20.4	-31.71
14:43:16	15:00	100	16.47	5.88	615.65	0.00	8.69	20.3	-19.08

Container	Number	Preservative	
1L Plastic	2	HNO3	
250 mL Plastic	1	HNO3	
500 mL Plastic	1	None	
250 mL Plastic	1	None	
	Container 1L Plastic 250 mL Plastic 500 mL Plastic 250 mL Plastic	ContainerNumber1L Plastic2250 mL Plastic1500 mL Plastic1250 mL Plastic1	ContainerNumberPreservative1L Plastic2HNO3250 mL Plastic1HNO3500 mL Plastic1None250 mL Plastic1None

LaMotte turbidity readings (time elapsed=NTU) 5:00=1.47, 10:00=1.05, 15:00= 1.13 Comments:

#### Well Casing Volume Conversion

	$1.25 = 0.06\ 2 = 0.16\ 3 = 0.37\ 4 = 0.65$	
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 Completion: NA

Well Locked at Departure:

Key Number To Well: NA

mS/cm = milliSiemens per centimeter NTU = Nephelometric Turbidity Unit mg/L = milligrams per liter µS/cm = microSiemens per centimeters



Project Number	30052922	Well ID	YGWA-18I			Date	03/03/2021
Project Location	AMA AP-3, A, B and B		Weather(°F)	63.3 degrees F	and Clear. The wind is	s blowing N/NW	/ at 3.4 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.67	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	22.33	Total Depth (ft- bmp)	79.97	Water Column(ft)	57.64	Gallons in Well	9.37
MP Elevation	790.57	Pump Intake (ft- bmp)	75	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	15:00	Well Volumes Purged	0.06	Sample ID	YGWA-18I	Sampled by	Jake Swanson
Purge Start	14:34	Gallons Purged	0.53	Replicate/ Code No.		Color	Clear

Purge End 14:54

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:34:06	00:00	100	22.33	6.31	125.81	0.00	8.33	17.1	193.76
14:39:06	05:00	100	22.55	6.03	125.63	0.00	4.08	17.4	205.85
14:44:06	10:00	100	22.55	5.91	124.14	0.00	3.98	17.0	210.15
14:49:06	15:00	100	22.55	5.88	122.74	0.00	3.87	16.8	213.89
14:54:06	20:00	100	22.55	5.89	123.01	0.00	3.86	16.8	211.83

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Chloride,Fluoride SO4	250 mL Plastic	1	None

**Comments:** La Motte turbidity reading (elapsed time=NTU) 10:00 = 0.43, 15:00 = 0.27, 20:00 = 0.25

### Well Casing Volume Conversion

#### Well Information

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

mS/cm = milliSiemens per centimeterNTU = Nephelometric Turbidity Unit mg/L = milligrams per liter  $\mu S/cm = microSiemens per centimeters$ 



rmit Number				
	P7-37	-		
rson Gauging:	Katie Pupkiewicz	-		
Date:	3/2/2021	1		
Time:	08:49:00	1		
		Yes	No	1
1 Location Ide	ntification:			
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?	V		
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?	V		
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		
e	Is the pad surface clean (not covered with sediment or debris)?	V		
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)?	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?	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?	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	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:	-		-



	ct Location:	AMA AP-3, A, B and B	-		
rm	it Number:		-		
	Well ID:	YGWA-18S	-		
rso	on Gauging:		-		
	Date:	08:16:00	-		
	Time:	00.10.00	Voc	No	N
1	Location Ide	ntification:	103	NO	
'		Is the well visible and accessible?	ব		_
	a b	Is the well preparty identified with the correct well ID?			+
	D C	Is the well in a high traffic area and does the well require protection from traffic?			-
	ر ۲	Is the drained a region of the well accepted and does the well require protection from traincy			-
	a	drainage flow path)	Ø		
2	Protective C	asing:			_
	а	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)?	V		
	b	Is the well pad sloped away from the protective casing?	Ø		T
	с	Is the well pad in complete contact with the protective casing?	V		T
	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	inα			t
	а	Does the cap prevent entry of foreign material into the well?	V		t
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	V		+
	~ C	Is the well properly vented for equilibration of air pressure?			+
	d	Is the survey point clearly marked on the inner casing?		-	+
	u 0	Is the depth of the well consistent with the original well log?			-
	t	Is the cacing stable? (or does the nuc move easily when touched or can it be taken apart by hand			+
	I	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?	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	ur professional judgement, is the well construction / location:			T
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		T
		and 2) comply with the applicable regulatory requirements?	V		+
		ctions as nooded by date:	-		+



rmit Number:		1		
Well ID	YGWA-18I	1		
son Gauging	Katie Pupkiewicz	]		
Date	: 3/2/2021			
Time	: 08:17:00			_
		Yes	No	
1 Location Id	entification:			
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 0	Casing:			
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?	V		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	V		
3 Surface Pac				
а	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?	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			
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: C	Groundwater 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 ye	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	actions as needed, by date:			
8 Date by wh	en corrective actions are needed:			



rmit Number				
Well ID	: YGWC-23S	1		
rson Gauging	: Katie Pupkiewicz	1		
Date	: 3/2/2021	]		
Time	: 08:52:00			
		Yes	No	
1 Location Id	entification:			
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	Casing:			
а	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 Pag	k			
а	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		
e	Is the pad surface clean (not covered with sediment or debris)?	V		
4 Internal Ca	sing			
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?	V		
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:	Groundwater 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 y	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	actions as needed, by date:			
8 Date by wh	en corrective actions are needed			-



mit Number:				
Well ID:	YGWC-38	]		
son Gauging:	Katie Pupkiewicz			
Date:	3/2/2021			
Time:	08:43:00			_
		Yes	No	)
1 Location Ide	entification:			
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:			
а	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				
а	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)	V		
е	Is the pad surface clean (not covered with sediment or debris)?	V		
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)?	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)	V		
5 Sampling: G	roundwater Wells Only:			-
а	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?	V		
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	V		
	and 2) comply with the applicable regulatory requirements?	V		
7 Corrective a	ctions as needed, by date:			
				_



rmit Number		1		
Well ID	• • YGWA-39	1		
rson Gauging	: Katie Pupkiewicz	1		
Date	: 3/2/2021	1		
Time	: 08:58:00	1		
		Yes	No	
1 Location lo	entification:			
а	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?	Ø		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2 Protective	Casing:			
а	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 Pa	Let the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s			
а	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 Ca	sing			
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?	V		
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?	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:	Groundwater Wells Only:			
а	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)?		Ø	
6 Based on y	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?	V		
7 Corrective	actions as needed, by date:			



rmit Numbe	r.	1		
Well I	•• • YGWA-40	-		
rson Gaugin	a: Katie Pupkiewicz	1		
Dat	e: 3/2/2021	1		
Tim	e: 09:05:00	1		
		Yes	No	
1 Location I	dentification:			
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	Casing:			
а	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 Pa	ad			
а	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		
e	Is the pad surface clean (not covered with sediment or debris)?	V		
4 Internal C	asing			
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?	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)	V		
5 Sampling:	Groundwater 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	your 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?	V		
7 Corrective	actions as needed, by date:			



Well D:         YGWA-17S           son Gaudia;         Kale Pupliewicz           Date:         2/22021           Time:         082400           I         Location Identification:         Ves           a         Is the well properly identified with the correct well ID?         Z           b         Is the well properly identified with the correct well ID?         Z         I           c         Is the well properly identified with the correct well ID?         Z         I           d         Is the well properly identified with the correct well ID?         Z         I           d         Is the well properly identified with the correct well ID?         Z         I           d         Is the well padin good condition or deterioration?         Z         I           c         Does the casing free of degradation or deterioration?         Z         I           d         Is the entrotexic casing sclear of debris and water, or filled with pea gravel/sand?         I         I           a         Is the well pad in good condition (not cracked or broken)?         Z         I         I           a         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)         I         I         I <td< th=""><th>mit Nu</th><th>mber:</th><th>_</th><th></th><th></th></td<>	mit Nu	mber:	_		
Son Gaudine:         Sale Equiplewicz           Date:         3/2/2021           Time:         0.824.00           Vest         N           1         Location Identification:         Yes         N           a         Is the well visible and accessible?         Ø         I           b         Is the well roporely identified with the correct well ID?         Ø         I           c         Is the well in a high traffic area and does the well require protection from traffic?         Ø         I           c         Is the well in a high traffic area and does the well require protection from traffic?         Ø         I           d         Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)         Ø         I           2         Protective Casing:         Ø         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I	N	/ell ID: YGWA-17S	_		
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Time: U82-4300       Yes         1       Location Identification:       Image: Sthe well visible and accessible?       Image: Sthe well roperly identified with the correct well ID?       Image: Sthe well in a high traffic area and does the well require protection from traffic?       Image: Sthe well in a high traffic area and does the well require protection from traffic?       Image: Sthe well in a high traffic area and does the well require protection from traffic?       Image: Sthe well and accessible?         2       Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)       Image: Sthe protective casing free of degradation or deterioration?       Image: Sthe protective casing free of degradation or deterioration?       Image: Sthe protective casing free of degradation or deterioration?       Image: Sthe annular space between casings clear of debris and water, or filled with pea gravel/sand?       Image: Sthe well pad in good condition (not cracked or broken)?       Image: Sthe well pad in good condition (not cracked or broken)?       Image: Sthe well pad in complete contact with the protective casing?       Image: Sthe well pad in complete contact with the protective casing?       Image: Sthe well pad in complete contact with the ground surface and stable? (not undermined by easion, animal burrows, and does not move when stepped on)       Image: Sthe well pad in complete contact with the ground surface and stable? (not undermined by easion, animal burrows, and does not move when stepped on)       Image: Sthe well properly wented for equilibration of air pressure?       Image: Sthe well properly wented for equilibration of air pressure?       Image: Sthe well pad in comp		Date: 3/2/2021	-		
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a       b       b       b       b       b       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c       c	C C	Is the well in a high traffic area and does the well require protection from traffic?			
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b       Is the casing free of degradation or deterioration?       Image: Comparison of the casing have a functioning weep hole?       Image: Comparison of the casing have a functioning weep hole?       Image: Comparison of the casing have a functioning weep hole?       Image: Comparison of the casing have a functioning weep hole?       Image: Comparison of the casing have a functioning weep hole?       Image: Comparison of the casing have a function of the casing have a function of the casing have a function of the casing have a function (not cracked or broken)?       Image: Comparison of the casing have a function of the casing?       Image: Comparison of the casing have a function of the casing?       Image: Comparison of the casing have a function of the casing?       Image: Comparison of the casing have a function of the casing?       Image: Comparison of the casing have a function of the casing?       Image: Comparison of the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?       Image: Comparison of the casing?       Image: Comparison of the casing	а	Is the protective casing free from apparent damage and able to be secured?	V		
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b       Is the well pad sloped away from the protective casing?       Image: Complete contact with the protective casing?       Image: Complete contact with the protective casing?       Image: Complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)       Image: Complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)       Image: Complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)       Image: Complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)       Image: Complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)       Image: Complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)       Image: Complete contact with the ground surface and stable? (not undermined by erosion ground surface and stable? (or does the surface and stable? (or does the protections from foreign objects (such as bailers)?       Image: Complete contact with the original well log?       Image: Complete contact well?       Image: Completee contact well?       Image: Completee contact well?       Image: Completee contact well consistent with the origina	а	Is the well pad in good condition (not cracked or broken)?	V		
c       Is the well pad in complete contact with the protective casing?       I       I         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)       I       I         e       Is the pad surface clean (not covered with sediment or debris)?       I       I       I         4       Internal Cast       I       I       I       I       I         a       Does the cap prevent entry of foreign material into the well?       I       I       I       I         b       Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?       I       I         c       Is the well properly vented for equilibration of air pressure?       I       I       I         c       Is the depth of the well consistent with the original well log?       I       I       I         e       Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand use to lack of grout or use of slip couplings in construction)       I       I       I         f       Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand use to lack of grout or use of slip couplings in construction)       I       I       I         f       Is the casing stable? (or does the pvc move easily when touched or can it be t	b	Is the well pad sloped away from the protective casing?	Ø		
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a       Does the cap prevent entry of foreign material into the well?       Image: Comparison of the cap prevent entry of foreign material into the well?       Image: Comparison of the cap prevent entry of foreign material into the well?       Image: Comparison of the cap prevent entry of foreign material into the well?       Image: Comparison of the cap prevent entry of foreign material into the well?       Image: Comparison of the cap prevent entry of foreign material into the well?       Image: Comparison of the cap prevent entry of foreign material into the well?       Image: Comparison of the cap prevent entry of foreign material into the well?       Image: Comparison of the cap prevent entry of foreign material into the well?       Image: Comparison of the cap prevent entry of foreign material into the well?       Image: Comparison of the cap prevent entry of foreign material into the well?       Image: Comparison of the cap prevent entry of foreign material into the well?       Image: Comparison of the cap prevent entry of foreign material into the well?       Image: Comparison of the cap prevent entry of foreign material into the well?       Image: Comparison of the cap prevent entry of foreign material into the entry of foreign material into the well construction)       Image: Comparison of the cap prevent entry of foreign material well log?       Image: Comparison of the cap prevent entry of foreign material well log?       Image: Comparison of the cap prevent entry of foreign material well log?       Image: Comparison of the facility?       Image: Comparison of the facility?       Image: Comparison of the facility?       Image: Comparison of the cap prevent entry of foreign material well construction / location:       Image: Comparison of the cap prevent entry of for	4 Inter	nal Casing			
b       Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?       Image: Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost of Cost o	а	Does the cap prevent entry of foreign material into the well?	$\square$		
c       Is the well properly vented for equilibration of air pressure?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked?       Image: Comparison of the survey point clearly marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on t	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
d       Is the survey point clearly marked on the inner casing?       Image: Comparison of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the	с	Is the well properly vented for equilibration of air pressure?	Ø		
e       Is the depth of the well consistent with the original well log?       Image: Construction	d	Is the survey point clearly marked on the inner casing?	$\square$		
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)       Image: Construction       Ima	е	Is the depth of the well consistent with the original well log?	$\square$		
5       Sampling: Groundwater Wells Only:       Image: Sampling: Groundwater Wells Only:       Image: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampling: Sampli	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		
a       Does well recharge adequately when purged?       Image: Complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex compl	5 Sam	ling: Groundwater Wells Only:			
b       If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Construction of the facility?       Image: Constructity of the facility of the facility of the facility of the facility	а	Does well recharge adequately when purged?	Ø		
c       Does the well require redevelopment (low flow, turbid)?       □       I         6       Based on your professional judgement, is the well construction / location:       I         appropriate to 1) achieve the objectives of the Groundwater Monitoring Program       I         and 2) comply with the applicable regulatory requirements?       I         7       Corrective actions as needed, by date:       I	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	V		
6     Based on your professional judgement, is the well construction / location:     Image: specific construction / location       appropriate to 1) achieve the objectives of the Groundwater Monitoring Program     Image: specific construction / location       and 2) comply with the applicable regulatory requirements?     Image: specific construction / location       7     Corrective actions as needed, by date:	с	Does the well require redevelopment (low flow, turbid)?		Ø	
appropriate to 1) achieve the objectives of the Groundwater Monitoring Program       Image: Complex of the applicable regulatory requirements?       Image: Complex of the a	6 Base	on your professional judgement, is the well construction / location:			
and 2) comply with the applicable regulatory requirements?Image: Complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex comp		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
7 Corrective actions as needed, by date:		and 2) comply with the applicable regulatory requirements?	Ø		
	7 Corre	ective actions as needed, by date:			



rmi	t Number		1	
	Woll ID:	P7-51	-	
sor	Gauging:	Katie Pupkiewicz	1	
301	Date:	3/2/2021	1	
	Time:	09:33:00	1	
			Yes	No
1 L	ocation Ide	entification:		
а	1	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	
c	ł	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø	
2 F	Protective C	asing:		
а	1	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	
с	ł	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	V	
3 S	Surface Pad			
a	1	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	
C	ł	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	2	Is the pad surface clean (not covered with sediment or debris)?	Ø	
4 II	nternal Cas	ing		
а	1	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	
c	ł	Is the survey point clearly marked on the inner casing?	V	
e	9	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 S	Sampling: G	roundwater Wells Only:		
а	1	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 B	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	
		ctions as needed by date:		



rmit N	Numbor		1		
	Well ID:	YGWC-43	1		
son G	Gauging:	Katie Pupkiewicz	1		
	Date:	3/2/2021	1		
	Time:	09:35:00	1		
			Yes	No	,
1 Loc	cation Ide	ntification:			
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 Pro	otective Ca	asing:			
а		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 Sur	rface Pad				-
а		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 Inte	ernal Casi	ng			-
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?	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 San	mpling: Gi	roundwater Wells Only:			
а	. 5	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)?		Ø	
6 Bas	sed on vo	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		
		, , , , , , , , , , , , , , , , , , ,			-



•			-		
mi	t Number:		-		
	Well ID:	Katie Punkiewicz	-		
SOI	Date:	3/2/2021	1		
	Time	09:25:00	1		
	Thire.		Yes	No	-
1 L	ocation Ide	entification:			
а	1	Is the well visible and accessible?	V		
b	)	Is the well properly identified with the correct well ID?	V		
с	2	Is the well in a high traffic area and does the well require protection from traffic?	V		
d	ł	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2 P	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	k	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	V		
3 S	Surface Pad				-
а	1	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	2	Is the well pad in complete contact with the protective casing?	V		
d	ł	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	9	Is the pad surface clean (not covered with sediment or debris)?	V		
4 II	nternal Cas	ing			-
а	3	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	ł	Is the survey point clearly marked on the inner casing?	V		
e	9	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 S	Sampling: G	roundwater Wells Only:			-
а	1	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 B	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		
	- orroctivo o	ctions as needed, by date:			-



milli number.				
Well ID:	YAMW-2	1		
rson Gauging.	Katie Pupkiewicz	-		
Date:	3/2/2021	1		
Time:	09:15:00	1		
		Yes	No	T
1 Location Ide	entification:			
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?	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				-
а	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			-
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?	V		
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?	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?	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 yc	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:			



ject Location		-		
rmit Number	•	-		
Well ID	: YAMW-4	-		
son Gauging		-		
Date		-		
lime	03:03:00	Vac	No	-
1 Location Id	antification	res	NO	+
		EX.		-
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?			_
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2 Protective	Casing:			
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?	V		
3 Surface Pag	1			
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?	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		
۹	Is the pad surface clean (not covered with sediment or debris)?			
4 Internal Ca	sing			-
a	Does the cap prevent entry of foreign material into the well?	ম		
u h	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	_ _		
D C	Is the well properly vented for equilibration of air pressure?			
C	Is the surgery sist clearly regulation of an pressure?			
a	is the survey point clearly marked on the inner casing?			
e	Is the depth of the well consistent with the original well log?			
t	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: (	Groundwater 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?			
с	Does the well require redevelopment (low flow, turbid)?		V	
6 Based on y	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	actions as needed, by date:	-		1
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Well ID;       YAMW-5         son Gaudina;       Katte Pupkiewicz         Date:       3/2/221         Time:       08:40:00         I Location Identification:       Ø         a       Is the well visible and accessible?       Ø         b       Is the well properly identified with the correct well ID?       Ø         c       Is the well in a high traffic area and does the well require protection from traffic?       Ø         d       Is the order properly identified with the correct well ID?       Ø         c       Is the vell in a high traffic area and does the well require protection from traffic?       Ø         d       Is the protective casing free from apparent damage and able to be secured?       Ø         a       Is the protective casing free of degradation or deterioration?       Ø         c       Does the casing have a functioning weep hole?       Ø         d       Is the well pad in good condition (not cracked or broken)?       Ø       Ø         a       Is the well pad in complete contact with the protective casing?       Ø       Ø         c       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       Ø         e       Is the well pad in complete contact with the ground surface and sta			-	
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4       Internal Casing       Internal Casing       Image: Casing a Does the cap prevent entry of foreign material into the well?       Image: Casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?       Image: Casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?       Image: Casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?       Image: Casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?       Image: Casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?       Image: Casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?       Image: Casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?       Image: Casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?       Image: Casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?       Image: Casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?       Image: Casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?       Image: Casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?       Image: Casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?       Image: Casing free of kinks or bends, or any obstruction for casing free of kinks or bends, or any obstruction for such as proved and or use of slip couplings in construction)       Image: Casing free of kinks or bends, or any obstruction for for any obstruction for for any obstruction for for any obstructing free of foreign free of kinks or use of slip couplings	е	Is the pad surface clean (not covered with sediment or debris)?	Ø	
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b       Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?       Image: Comparison of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th	а	Does the cap prevent entry of foreign material into the well?	Ø	
c       Is the well properly vented for equilibration of air pressure?       Image: Comparison of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the secti	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	V	
d       Is the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing?       Image: Comparison of the survey point clearly marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the inner casing marked on the	с	Is the well properly vented for equilibration of air pressure?	Ø	
e       Is the depth of the well consistent with the original well log?       Image: Construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construct of the construc	d	Is the survey point clearly marked on the inner casing?	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)       Image: Coupling in construction         5       Sampling: Groundwater Wells Only:       Image: Coupling in construction       Image: Coupling in construction         a       Does well recharge adequately when purged?       Image: Coupling in coupling in construction       Image: Coupling in coupling in coupling in construction       Image: Coupling in coupling in coupling in construction       Image: Coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling in coupling i	e	Is the depth of the well consistent with the original well log?	Ø	
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b       If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?       □       □         c       Does the well require redevelopment (low flow, turbid)?       □       □       □         6       Based on y=r professional judgement, is the well construction / location:       □       □       □         7       Corrective actions as needed, by date:       □       □       □	а	Does well recharge adequately when purged?	V	
c       Does the well require redevelopment (low flow, turbid)?       □       ☑         6       Based on your professional judgement, is the well construction / location:       □       □         appropriate to 1) achieve the objectives of the Groundwater Monitoring Program       ☑       □         and 2) comply with the applicable regulatory requirements?       ☑       □         7       Corrective actions as needed, by date:       ✓       □	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		
6       Based on your professional judgement, is the well construction / location:       Image: style="text-align: center;">Image: style="text-align: center;"/>Image: style="text-align: center;"///////Image: style="text-align: center;"//////////////Image: styl	с	Does the well require redevelopment (low flow, turbid)?		Ø
appropriate to 1) achieve the objectives of the Groundwater Monitoring Program       Image: Complex of the Groundwater Monitoring Program         and 2) comply with the applicable regulatory requirements?       Image: Complex of the Groundwater Monitoring Program         7       Corrective actions as needed, by date:	6 Based	on your professional judgement, is the well construction / location:		
and 2) comply with the applicable regulatory requirements?       Image: Complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex complex comple		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V	
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rm	it Number:		-		
	Well ID:	YGWC-42	-		
rsc	on Gauging:	2/2/2021	-		
	Date:	09.26.00	-		
	Time:	03.20.00	Vac	No	
1	Location Ide	ntification:	103	NO	+
1		Is the well visible and accessible?	নি		+
	d h				_
	D	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?	M		_
	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?	V		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	V		
3	Surface Pad				
	а	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)	V		
	e	Is the pad surface clean (not covered with sediment or debris)?			
4	Internal Casi				-
		Does the cap prevent entry of foreign material into the well?	ম		
	u b	Is the casing free of kinks or bonds, or any obstructions from foreign objects (such as bailers)?			
	0	Is the well preperly wented for equilibration of air pressure?	L L		
	C al	Is the surgeous sint clearly reached on the inner assign?			
	a	is the survey point clearly marked on the inner casing?			
	e	Is the depth of the well consistent with the original well log?		Ц	
	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	V		
		and 2) comply with the applicable regulatory requirements?	V		
7	Corrective a	ctions as needed, by date:			+


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<ul> <li>Locati</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>2</li> <li>Protect</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>c</li> <li>d</li> <li>c</li> <li>d</li> <li>c</li> <li>d</li> <li>c</li> <li>d</li> <li>c</li> <li>d</li> <li>e</li> </ul>	Is the well visible and accessible?         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?         Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)         ective Casing:         Is the protective casing free from apparent damage and able to be secured?         Is the protective casing free from apparent damage and able to be secured?         Is the casing free of degradation or deterioration?         Does the casing have a functioning weep hole?         Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?         ince Pad         Is the well pad in good condition (not cracked or broken)?         Is the well pad sloped away from the protective casing?         Is the well pad in complete contact with the protective casing?		
<ul> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>c</li> <li>d</li> <li>c</li> <li>d</li> <li>c</li> <li>d</li> <li>e</li> <li>e</li> </ul>	Is the well visible and accessible? 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? Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) ective Casing: Is the protective casing free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole? Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? Is the well pad in good condition (not cracked or broken)? Is the well pad sloped away from the protective casing? Is the well pad in complete contact with the protective casing?		
<ul> <li>D</li> <li>C</li> <li>d</li> <li>Protect</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>3 Surfact</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>e</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>c</li> <li>d</li> <li>c</li> <li>d</li> <li>c</li> <li>d</li> <li>c</li> <li>d</li> <li>e</li> </ul>	Is the well properly identified with the correct well D? Is the well in a high traffic area and does the well require protection from traffic? Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) ective Casing: Is the protective casing free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole? Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? Is the well pad in good condition (not cracked or broken)? Is the well pad in good condition (not cracked or broken)? Is the well pad in complete contact with the protective casing?		
<ul> <li>c</li> <li>d</li> <li>Protect</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>Surfact</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>c</li> <li>d</li> <li>c</li> <li>d</li> <li>e</li> </ul>	Is the well in a high traffic area and does the well require protection from traffic? Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) ective Casing: Is the protective casing free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole? Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? Is the well pad in good condition (not cracked or broken)? Is the well pad in good condition (not cracked or broken)? Is the well pad sloped away from the protective casing? Is the well pad in complete contact with the protective casing?		
d Protect a b c d a Surfact a b c d c d d l nterm a b c c d c d c d d c c d d c d d c d c d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) ective Casing: Is the protective casing free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole? Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? Is the well pad in good condition (not cracked or broken)? Is the well pad sloped away from the protective casing? Is the well pad in complete contact with the protective casing?		
<ul> <li>Protect</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>3 Surfact</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>c</li> <li>d</li> <li>e</li> <li>t</li> <li>Intern</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>e</li> </ul>	ective Casing:         Is the protective casing free from apparent damage and able to be secured?         Is the casing free of degradation or deterioration?         Does the casing have a functioning weep hole?         Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?         Is the well pad in good condition (not cracked or broken)?         Is the well pad sloped away from the protective casing?         Is the well pad in complete contact with the protective casing?		
a b c d Surfac a b c d c d l ntern a b c c d c d e	Is the protective casing free from apparent damage and able to be secured?Is the casing free of degradation or deterioration?Does the casing have a functioning weep hole?Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?Ice PadIs the well pad in good condition (not cracked or broken)?Is the well pad sloped away from the protective casing?Is the well pad in complete contact with the protective casing?		
b c d Surfac a b c d c d l ntern a b c c d c d e	Is the casing free of degradation or deterioration?Does the casing have a functioning weep hole?Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?Ice PadIs the well pad in good condition (not cracked or broken)?Is the well pad sloped away from the protective casing?Is the well pad in complete contact with the protective casing?	Ø       Ø       Ø       Ø	
c d Surfac a b c d c d l ntern a b c c d e	Does the casing have a functioning weep hole?         Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?         Ice Pad         Is the well pad in good condition (not cracked or broken)?         Is the well pad sloped away from the protective casing?         Is the well pad in complete contact with the protective casing?	Image: Control	
d Surfac a b c d d e l ntern a b c c d e	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?         Is the well pad in good condition (not cracked or broken)?         Is the well pad sloped away from the protective casing?         Is the well pad in complete contact with the protective casing?	Image: Control	
<ul> <li>Surface</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>e</li> <li>Intern</li> <li>a</li> <li>b</li> <li>c</li> <li>d</li> <li>d</li> <li>e</li> <li>e</li> </ul>	Is the well pad in good condition (not cracked or broken)? Is the well pad sloped away from the protective casing? Is the well pad in complete contact with the protective casing?	Q	
a b c d e Intern a b c d e	Is the well pad in good condition (not cracked or broken)?Is the well pad sloped away from the protective casing?Is the well pad in complete contact with the protective casing?	2 2	
b c d e Intern a b c d e	Is the well pad sloped away from the protective casing? Is the well pad in complete contact with the protective casing?	V	
c d e Intern a b c d e	Is the well pad in complete contact with the protective casing?		
d e Intern a b c d e		V	
e Intern a b c d e	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	
Intern a b c d e	Is the pad surface clean (not covered with sediment or debris)?	V	
a b c d e	nal Casing		
b c d e	Does the cap prevent entry of foreign material into the well?	V	
c d e	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	V	
d e	Is the well properly vented for equilibration of air pressure?	V	
e	Is the survey point clearly marked on the inner casing?	- -	
C	Is the depth of the well consistent with the original well log?		_
f	Is the casing stable? (or does the pyc move easily when touched or can it be taken apart by hand		
-	due to lack of grout or use of slip couplings in construction)	<u> </u>	
5 Samp	pling: Groundwater 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			
	d on your professional judgement, is the well construction / location:	V	
	d on your professional judgement, is the well construction / location: appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V	
7 Corre	d on your professional judgement, is the well construction / location: appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?		



	ct Location:	AMA AP-3, A, B and B	-		
m	t Location:AMA AP-3, jt Number:YGWA-51Mell ID:YGWA-51n Gauging:Peter ArgyalDate:3/2/2021Time:08:09:00.ocation Id=tification:aIs the welloIs the wellcIs the wellcIs the welldIs the welldIs the welldIs the welldIs the drain drainage flProtective Casing:IsaIs the protectivebIs the casincDoes the cdIs the wellcDoes the cdIs the wellcIs the welldIs the welldIs the welldIs the welldIs the welldIs the welldIs the welldIs the welldIs the welldIs the casincIs the welldIs the casincIs the casindIs the casindIs the casindIs the casindIs the casindIs the casindIs the casindIs the casindIs the casindIs the casindIs the casindIs the casindIs the casindIs the casindIs the casindIs the casind		-		
	well ID:	Poter Arguskir	-		
SO	on Gauging:	2/2/2021	-		
	Date:	08:09:00	-		
	Time.		Ves	No	N
1	Location Ide	ntification	163	NU	
'		Is the well visible and accessible?	ব		Г
	d h	Is the well preperty identified with the correct well ID?			
	0	Is the well properly identified with the correct well require protection from traffic?			
	c	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?	V		
	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?	V		
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?	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		[
	e	Is the pad surface clean (not covered with sediment or debris)?	Ø		[
-	 Internal Casi				
	a	Does the cap prevent entry of foreign material into the well?	ন	П	ſ
	h	Is the casing free of kinks or hends, or any obstructions from foreign objects (such as bailers)?		-	
	c	Is the well preperly vented for equilibration of air pressure?			-
	d	Is the survey point clearly marked on the inner casing?			-
	u				
	e	Is the depth of the well consistent with the original well log?			
_	t	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)			1
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		1
	с	Does the well require redevelopment (low flow, turbid)?		V	1
5	Based on yo	ur professional judgement, is the well construction / location:			
	-	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		1
		and 2) comply with the applicable regulatory requirements?	V		[



			-		
rmit I	Number:		-		
	Well ID:	PZ-USS	-		
son	Gauging:	3/2/2021	-		
	Timo:	08:11:00	1		
	Time.		νρς	No	
110	cation Ide	ntification	163	NO	
1 200		Is the well visible and accessible?	নি		
a h		Is the well preparty identified with the correct well ID?			
D		Is the well properly identified with the correct well by			
c		is the well in a high traffic area and does the well require protection from traffic?		M	
d		Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2 Pro	otective C	asing:			
а		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?	V		
3 Su	Irface Pad				
а		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		
٩		Is the pad surface clean (not covered with sediment or debris)?			
4 Int	ternal Casi				-
2		Does the cap prevent entry of foreign material into the well?	ম		
u h		Is the casing free of kinks or hends, or any obstructions from foreign objects (such as bailers)?	_ _		
0		Is the well preperly vented for equilibration of air pressure?			
C al		Is the surgery vented for equilibration of all pressure?			
a		is the survey point clearly marked on the inner casing?			
e		Is the depth of the well consistent with the original well log?		Ш	
t		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 Sai	mpling: 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 Ba	sed 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?	V		
7 Co	orrective a	ctions as needed, by date:			
			1		



ecτ	Location:	AIVIA AP-3, A, B and B	-		
mιτ	ocation:       AMA AP-3, A, B and B'         Number:	P7 0/S	-		
on	Gauging:	Peter Arovakis	-		
	Date:	3/2/2021	-		
	Time:	08:19:00	-		
			Yes	No	N/
l Lo	ocation Ide	ntification:			
а		Is the well visible and accessible?	Ø		C
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		C
2 Pr	rotective C	asing:			
а		Is the protective casing free from apparent damage and able to be secured?	V		C
b		Is the casing free of degradation or deterioration?	V		E
с		Does the casing have a functioning weep hole?	V		C
d		Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3 Si	urface Pad				
а		Is the well pad in good condition (not cracked or broken)?	Ø		0
b		Is the well pad sloped away from the protective casing?	Ø		1
с		Is the well pad in complete contact with the protective casing?	Ø		1
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)			C
e		Is the pad surface clean (not covered with sediment or debris)?	V		0
In	nternal Casi	ng			
а		Does the cap prevent entry of foreign material into the well?	Ø		1
b		Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	V		1
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		0
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 Sa	ampling: G	roundwater Wells Only:			
а		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	[
5 Ba	ased on yo	ur professional judgement, is the well construction / location:			
	,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		1
		and 2) comply with the applicable regulatory requirements?	Ø		[
7 C	orrective a	ctions as needed, by date:			+



	ct Location:	AMA AP-3, A, B and B	-		
rm	it Number:		-		
	Well ID:	YGWA-4I	-		
rso	on Gauging:		-		
	Date:	08:21:00			
	Time:	00.21.00	Voc	No	N
1	Location Ide	ntification:	103	NO	
	2	Is the well visible and accessible?	ম	п	+
	h	Is the well properly identified with the correct well ID?	- -		_
	c	Is the well in a high traffic area and does the well require protection from traffic?		- -	-
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious			+
	u	drainage flow path)	Ø		
2	Protective C	asing:			
	а	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?	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?	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			T
	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)?			
	с	Is the well properly vented for equilibration of air pressure?	V		
	d	Is the survey point clearly marked on the inner casing?	Ø		1
	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?	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	1
6	Based on vo	ur professional judgement, is the well construction / location:			+
	,-	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		t
		and 2) comply with the applicable regulatory requirements?	V		╈
					+



			-		
rm	It Number:		-		
	well ID:	Poter Arguskir	-		
rso	n Gauging: Date:	3/2/2021	-		
	Date. Timo:	08:32:00	-		
	Time.		Yes	No	T
1	l ocation Ide	ntification	103	NO	+
	2	Is the well visible and accessible?	নি		-
	a h	Is the well preperty identified with the correct well ID?			-
-		Is the well properly identified with the correct well require protoction from troffic?			
-	C	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?	V		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	V		
3	Surface Pad				
	а	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)	V		
	e	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?	1		
	h	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	- -		
	с с	Is the well properly vented for equilibration of air prossure?		-	
	ر ط	Is the survey poperty vented of equilibration of an pressure:			
-	u				
-	e C	is the depth of the well consistent with the original well log?	V		
	T	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?	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	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:			-



	Location:		-		
rmit	Number:		-		
	Well ID:	YGWA-21I	-		
rson	Gauging:	Peter Argyakis	-		
	Date:	3/2/2021	-		
	Time:	08.59.00	Voc	No	
1 1	acation Ida	ntification	Tes	NU	_
				_	_
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 Pr	rotective 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?	V		
3 Sı	urface 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		
•		Is the pad surface clean (not covered with sediment or debris)?	ম		
4 In	tornal Casi				-
	iternai Casi	Door the cap provent entry of foreign material into the well?	لکا ا		
a		Le the series free of light or her de or envie between free forcing chiests (such as beilers)?			
D		is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)?			
C		Is the well properly vented for equilibration of air pressure?			
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 Sa	ampling: 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 Ba	ased 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 C	orrective a	ctions as needed, by date:	-		-
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mit N	imher	-		
MIL N	(ell ID: YGWA-5D	-		
v son Ga	uning: Peter Argyakis	-		
	Date: 3/2/2021	-		
	Time: 08:05:00	-		
		Yes	No	- )
1 Loca	tion Identification:			
а	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)	Q		
2 Prot	ective Casing:			
а	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 Surfa	ice Pad			
а	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)	Q		
е	Is the pad surface clean (not covered with sediment or debris)?	V		
4 Inter	nal Casing			
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)	Q		
5 Sam	oling: Groundwater Wells Only:			
а	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?	Q		
с	Does the well require redevelopment (low flow, turbid)?		V	
6 Base	d on your 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 Corr	ective actions as needed, by date:			-



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Well ID:	YGWA-6S	-		
son Gauging:	Peter Argyakis	-		
Date	0005-00	-		
Time:	09.03.00	Voc	No	-
1 Location Ide	antification	Tes	INU	
	le the well visible and accessible?	L.	_	
d h	Is the well visible and accessible:			
d c	Is the well properly identified with the correct well to:			
C	Is the well in a high traffic area and does the well require protection from traffic?		M	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2 Protective C	Casing:			
а	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				
а	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			
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?	V		
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	Froundwater Wells Only:			-
а	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)?		Ø	
6 Based on vo	pur 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	actions as needed, by date:			-
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lect Location		-		
rmit Number:		-		
Well ID	YGWA-6I	-		
rson Gauging		-		
Date	00.02.00	-		
Time	05.05.00	Voc	No	Т
1 Location Id	antification	Tes	NU	+
	le the well visible and essessible?	EX.		+
a				
D	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	Casing:			
а	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?	V		
3 Surface Pac				-
а	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 С	Is the well had in complete contact with the protective casing?			
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by	V		
	erosion, animal burrows, and does not move when stepped on)		_	
e	is the pad surface clean (not covered with sediment or debris)?	M		_
4 Internal Cas				
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)?	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	Groundwater Wells Only:			
а	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		
C	Does the well require redevelopment (low flow, turbid)?		V	
6 Based on v	pur professional judgement is the well construction / location:			-
o based on ye	appropriate to 1) achieve the objectives of the Groundwater Menitoring Program	ম		
	and 2) comply with the applicable regulatory requirements?	L L		
7 Correction	and 2) comply with the applicable regulatory requirements:			+
/ Corrective a	actions as needed, by date:			



rm	it Number		1		
	Well ID:	PZ-06D	1		
rso	n Gauging:	Peter Argyakis	1		
	Date:	3/2/2021	1		
	Time:	09:07:00	1		
			Yes	No	
1	Location Ide	ntification:			
	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?	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				
	а	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?	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			
	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		
	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?	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	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:			-
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Vert ID:         IZ-48           Son Gaucian:         Peter Argonis:           Date:         3/2/2021           Time:         ID:           I Location Identification:         Yes         No           a         Is the well properly identified with the correct well ID?         ID:           c         Is the well an a high traffic area and does the well require protection from traffic?         ID:           d         Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)         ID:           2         Protective Casing:         ID:         ID: </th <th>1 Lou a b c d 2 Prc a</th> <th>Well ID: Gauging: Date: Time:</th> <th>P2-48 Peter Argyakis 3/2/2021</th> <th>-</th> <th></th> <th></th>	1 Lou a b c d 2 Prc a	Well ID: Gauging: Date: Time:	P2-48 Peter Argyakis 3/2/2021	-		
Bate: 3/2/2021           Time:         99:11:00           Ves         No           1         Location Identification:         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	1 Lou a b c d 2 Prc a	Gauging: Date: Time:	3/2/2021			
Time:         [92:11:0           Yes         No           1         Location Identification:         Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: I	1 Loo a b c d 2 Prc a	Time:		1		
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1       Location Identification:       Image: Section Identification:       Image: Section Identification:         a       Is the well visible and accessible?       Image: Section Identification:	1 Lo a b c d 2 Pro		05.11.00	Vac	No	T
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a       is the well visible and accessible?       a       a         b       is the well properly identified with the correct well ID?       a       a         c       is the well in a high traffic area and does the well require protection from traffic?       a       a         c       is the trainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)       a       a         2       Protective Casing:       a       b       is the protective casing free of degradation or deterioration?       a       a         a       is the examp free of degradation or deterioration?       a       a       a       a       a       b       b       the null ar space between casings clear of debris and water, or filled with pea gravel/sand?       a       a         a       is the well pad in good condition (not cracked or broken)?       a       a       a       a       b       is the well pad in complete contact with the protective casing?       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a<	a b c d 2 Prc a		Is the well visible and accessible?	D	_	+
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2       Protective Casing:       Image: Casing free from apparent damage and able to be secured?       Image: Casing free from apparent damage and able to be secured?       Image: Casing free from apparent damage and able to be secured?       Image: Casing free from apparent damage and able to be secured?       Image: Casing free from apparent damage and able to be secured?       Image: Casing free from apparent damage and able to be secured?       Image: Casing free from apparent damage and able to be secured?       Image: Casing free from apparent damage and able to be secured?       Image: Casing free from apparent damage and able to be secured?       Image: Casing free from apparent damage and able to be secured?       Image: Casing free from apparent damage and able to be secured?       Image: Casing free from apparent damage and able to be secured?       Image: Casing free from apparent damage and able to be secured?       Image: Casing free from apparent damage and able to be secured?       Image: Casing free from apparent damage and able to be secured?       Image: Casing free from apparent damage and able to be secured?       Image: Casing free from apparent damage and able to be secured?       Image: Casing free from apparent damage and able to be secured?       Image: Casing free from apparent damage and able to be secured?       Image: Casing free from apparent damage and able to be secured?       Image: Casing free from apparent damage and able to be secured?       Image: Casing free from apparent damage and able to be secured?       Image: Casing free from apparent damage and be proteo to casing?       Image: Casing free from apparent damage and be proteo to casing?       Image: Casing free from apparent damage and be proteo to damage an	2 Pro		Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
a       Is the protective casing free from apparent damage and able to be secured?       I         b       Is the casing free of degradation or deterioration?       I         c       Does the casing have a functioning weep hole?       I         d       Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?       I         3       Surface Pathers       I       I         a       Is the well pad in good condition (not cracked or broken)?       I       I         b       Is the well pad in complete contact with the protective casing?       I       I         c       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)       I       I         e       Is the pad surface clean (not covered with sediment or debris)?       I       I         a       Does the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?       I       I         b       Is the well properly vented for equilibration of air pressure?       I       I       I         c       Is the exaing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?       I       I         b       Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?       I       I <td>а</td> <td>otective Ca</td> <td>asing:</td> <td></td> <td></td> <td></td>	а	otective Ca	asing:			
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b       Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?       I         c       Is the well properly vented for equilibration of air pressure?       I         d       Is the survey point clearly marked on the inner casing?       I         e       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)       I         5       Sampling: Under Wells Only:       I       I         a       Does well recharge adequately when purged?       I       I         b       If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?       I       I         c       Does the well require redevelopment (low flow, turbid)?       I       I       I         6       Based on yurperiset to 1) achieve the objectives of the Groundwater Monitoring Program       I       I         and 2) comply with the applicable regulatory requirements?       I       I       I         and 2) comply with the applicable regulatory requirements?       I       I       I         d       Ind 2) comply with the applicable regulatory requirements?       I       I	а		Does the cap prevent entry of foreign material into the well?	Ø		
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d       Is the survey point clearly marked on the inner casing?       Image: Comparison of the set of the well consistent with the original well log?       Image: Comparison of the set of the well consistent with the original well log?       Image: Comparison of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of	с		Is the well properly vented for equilibration of air pressure?	Ø		
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a       Does well recharge adequately when purged?       Image: Comparison of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco	5 Sa	ampling: Gr	roundwater Wells Only:			-
b       If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?       □         c       Does the well require redevelopment (low flow, turbid)?       □       ∅         6       Based on your professional judgement, is the well construction / location:       □       ∅         appropriate to 1) achieve the objectives of the Groundwater Monitoring Program       ∅       □         and 2) comply with the applicable regulatory requirements?       ∅       □         7       Corrective actions as needed, by date:       ✓       □	а	1. 2	Does well recharge adequately when purged?	V		
c       Does the well require redevelopment (low flow, turbid)?       □       ∅         6       Based on your professional judgement, is the well construction / location:       □       ∅         appropriate to 1) achieve the objectives of the Groundwater Monitoring Program       ∅       □         and 2) comply with the applicable regulatory requirements?       ∅       □         7       Corrective actions as needed, by date:       ✓       □	b		If dedicated sampling equipment installed, is it in good condition and specified in the approved aroundwater plan for the facility?	Ø		
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and 2) comply with the applicable regulatory requirements?     Image: Complexity of the applicable regulatory requirements?       7     Corrective actions as needed, by date:			appropriate to 1) achieve the objectives of the Groundwater Monitoring Program			
7 Corrective actions as needed, by date:			and 2) comply with the applicable regulatory requirements?	M		+
	7 Co	orrective ad	ctions as needed, by date:			



	Location:		-		
rmit	t Number:		-		
	Well ID:	YGWC-49	-		
rson	Gauging:	Peter Argyakis	-		
	Date:	3/2/2021	-		
	Time:	03.18.00	Voc	No	
1 1	ocation Ido	ntification	Tes	NU	_
				_	_
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 P	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?	V		
3 S	urface 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	l	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		
0	•	Is the pad surface clean (not covered with sediment or debris)?	ম		
4 Ir	ntornal Casi				-
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a		Le the series free of light or her de or envie between free forcing chiests (such as beilers)?			
D	)	is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)?			
c		Is the well properly vented for equilibration of air pressure?			
d		Is the survey point clearly marked on the inner casing?			
e		Is the depth of the well consistent with the original well log?			
f		Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5 S	ampling: 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 B	ased 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 C	Corrective a	ctions as needed, by date:	-		-



m	it Numbor		1		
		Ρ7-24ΙΔ	1		
50	n Gauging:	Peter Argyakis	1		
30	Date:	3/2/2021	1		
	Time:	09:27:00	1		
			Yes	No	- )
1	Location Ide	ntification:			
	а	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?	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:			
	а	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				
	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?	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 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		
	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)			
5	Sampling: G	roundwater Wells Only:			
	а	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	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		
	C	ctions as needed, by date:			



mit Number		-		
Well ID	: YGWC-24SA	-		
son Gauging	: Peter Argyakis	-		
Date	00:20:00	-		
IIme	: 03.23.00	Voc	No	-
1 Location Id	entification	163	NO	
2	Is the well visible and accessible?	ম		
a h	Is the well properly identified with the correct well ID?			
0	Is the well in a high traffic area and does the well require protection from traffic?		N	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2 Protective	Casing:			
а	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?	V		
3 Surface Pac	Let the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s			
а	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?	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 Ca	sing			
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?	V		
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?	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: (	Groundwater Wells Only:			
а	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 y	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	actions as needed, by date:			



	ct Location:		-		
rm	it Number:		-		
	well ID:	Poter Argyskir	-		
50	Date:	3/2/2021	-		
	Time:	09:31:00	-		
	Time.		Yes	No	N
1	Location Ide	ntification:			,
	а	Is the well visible and accessible?			
	h	Is the well properly identified with the correct well ID?			
0	c c	Is the well in a high traffic area and does the well require protection from traffic?	- -		1
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious		-	
	u	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?	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?	V		
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		
	e	Is the pad surface clean (not covered with sediment or debris)?	V		-
1	Internal Casi				+
	a	Does the cap prevent entry of foreign material into the well?			-
	h	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?			+
	c c	Is the well properly vented for equilibration of air pressure?			+
	d	Is the survey point clearly marked on the inper casing?		-	-
	u	Is the depth of the well experience with the original well log?			_
	e	Is the depth of the well consistent with the original well log?			_
	Ţ	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?			
	с	Does the well require redevelopment (low flow, turbid)?		V	
5	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		-
					+



			1		
mit	Woll ID:	P7-35	-		
con (	Gauging:	Peter Aravakis	1		
5011 4	Date:	3/2/2021	1		
	Time:	09:35:00	1		
			Yes	No	,
1 Lo	cation Ide	entification:			
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)	V		
2 Pro	otective C	asing:			
а		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 Su	Irface Pad				
а		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?	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 Int	ternal 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)?	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 due to lack of grout or use of slip couplings in construction)	Ø		
5 Sa	mpling: 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?			
с		Does the well require redevelopment (low flow, turbid)?		Ø	
6 Ba	ised 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		
_	orrective a	ctions as needed, by date:			-



rmit Number		1		
Well ID:	YGWC-36A	1		
son Gauging:	Peter Argyakis	1		
Date:	3/2/2021	1		
Time:	09:37:00	1		
		Yes	No	
1 Location Ide	entification:			
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	Casing:			
а	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				
а	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			
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?	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:			
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	pur 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	ictions as needed, by date:			
				_

# May 2021

PZ-37D

#### **Groundwater Sampling Form**



Project Number		Well ID	PZ-37D			Date	5/13/21
Project Location			Weather(°F)	Sunny, and war	m		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)		Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	5.95	Total Depth (ft-bmp)	202.85	Water Column(ft)	197.23	Gallons in Well	31.56
MP Elevation		Pump Intake (ft- bmp)	197.8	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	12:30	Well Volumes Purged		Sample ID	PZ-37D(051421)	Sampled by	Becky Steever
Purge Start	10:53	Gallons Purged	2.75	Replicate/ Code No.	DUP-01	Color	Clear

Purge End 12:26

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water	pH (standard	Specific Conductivity	Turbidity (NTU)	Dissolved Oxygen	Temperature °C	Redox (mV)
10:53	0	200	5.95	units)	(µ3/cm)		Start		
11:07	14	150	12.58	8.02	794	3.06	0.89	18.04	-293.8
11:12	19	150	13.03	7.92	791	3.08	0.78	18.18	-341.7
11:17	24	125	13.41	7.86	777	2.99	0.23	18.43	-333.7
11:22	29	100	13.88	7.8	765	2.87	0.03	18.65	-325.2
11:27	34	100	13.95	7.77	765	2.11	0.01	18.57	-325.7
11:32	39	100	14.59	7.77	770	2.54	0.01	18.57	-323.3
11:37	44	100	15.38	7.74	748	2.34	0.01	18.56	-307.5
11:42	49	100	15.96	7.72	716	2.08	0.02	18.56	-316.8
11:47	54	100	16.40	7.74	702	2.01	0	18.55	-323.6
11:52	59	100	16.58	7.75	693	1.95	0.01	18.54	-325.5
11:57	64	100	16.80	7.77	671	1.87	0.01	18.55	-324.9
12:02	69	100	17.21	7.78	657	1.76	0.02	18.54	-321.6
12:07	74	100	17.64	7.78	651	1.77	0.01	18.53	-320.4
12:12	79	80			misse	ed reading while	adjusting pump	flow rate	
12:16	84	80	18.95	7.77	644	1.22	0.01	18.53	-327.1
12:21	89	80	19.07	7.78	637	1.35	0.01	18.51	-323.7
12:26	94	80	19.18	7.79	634	1.36	0.01	18.49	-319.8
					1				

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

#### Comments:

#### 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:

Condition of Well:

Well Completion: NA

Well Locked at Arrival: Well Locked at Departure:

Key Number To Well: NA

 $\begin{array}{l} ft\text{-bmp} = \text{feet below measuring point} \\ in = \text{inches} \\ ft = \text{feet} \\ mL/min = milliliters per minute \\ mS/cm = millilisiemens per centimeter \\ NTU = Nephelometric Turbidity Unit \\ mg/L = milligrams per liter \\ \muS/cm = \text{microSiemens per centimete} \end{array}$ 

# **APPENDIX C**

Well Installation Report

2021 Semiannual Groundwater and Corrective Action Report Plant Yates AP-3, A, B, B' and R6 CCR Landfill Newnan, GA





# GEORGIA POWER COMPANY PLANT YATES - AP-3/A/B/B' AND R6 LANDFILL

Groundwater Monitoring Well Installation Report

June 7, 2021

Anant a Willgord

Grant Willford Geologist II

Celfun Ca

Geoffrey Gay, P.E. Technical Expert / Project Manager

# GEORGIA POWER COMPANY PLANT YATES - AP-3/A/B/B' AND R6 LANDFILL

Groundwater Monitoring Well Installation Report

#### Prepared for:

Georgia Power Company Newnan, Georgia Coweta County

#### Prepared by:

Arcadis U.S., Inc. 2839 Paces Ferry Road Suite 900 Atlanta Georgia 30339 Tel 770 431 8666 Fax 770 435 2666

Our Ref: 30086734

Date: June 7, 2021

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Pro	fessio	nal Engineer Certificationi	i
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2	Drilli	ng and Well Installation	1
2	.1 [	Drilling Method	1
2	.2 5	Screened Interval	1
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	2.3.2	Annular Seal	2
	2.3.3	Cap and Protective Casing2	2
3	Well	Development	3
4	Surv	еу	3
5	Refe	rences	3

# TABLE

Table 1. Well Survey Data

## **FIGURE**

Figure 1. Well Location Map

# **APPENDICES**

- A Well Driller Performance Bond
- B Well Construction & Development Logs
- C Well Survey Report

Groundwater Monitoring Well Installation Report - AP-3/A/B/B' and R6 CCR Landfill

# 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 further certify that this report was prepared by me or by a subordinate working under my direction.



J. Geoffrey Gay, P.E. Technical Expert 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. Plant Yates (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.

The objective of this report is to document the installation of a deep bedrock groundwater monitoring well (PZ-37D) adjacent to the existing shallow bedrock well (PZ-37). **Figure 1** depicts the configuration of ash ponds AP-A, AP-B, AP-B', AP-3, and the R6 CCR Landfill and the location of the monitoring wells. PZ-37D was installed on April 16, 2021. Well construction activities were performed in general accordance with the standards described in the RCRA Technical Enforcement Guidance Document (1986) and the Georgia Water Wells Standards Act of 1985.

## 2 DRILLING AND WELL INSTALLATION

The groundwater monitoring system is designed and installed according to accepted industry standards and following guidelines within the Manual for Groundwater Monitoring (GA EPD 1991). The location and depths of the monitoring wells were selected based on the characterization of site-specific hydrogeologic conditions by a qualified professional engineer and geologist. Groundwater monitoring location PZ-37D was designed to monitor the portion of the bedrock aquifer below PZ-37. The installation date, location, elevation, screen interval, and designation for PZ-37D is provided in the following sections. A copy of the Cascade Drilling Bond is included in **Appendix A**. Boring and Well Construction logs are provided in **Appendix B**. **Table 1** provides a summary of well construction.

#### 2.1 Drilling Method

The piezometer was installed by Cascade Environmental under contract with Southern Company Services (SCS) Field Services. Cascade had a current and valid bond with the Water Wells Standards Advisory Council for the state of Georgia at the time of drilling and well installation.

The piezometer installation was performed under the oversight and direction of a Georgia Registered Professional Engineer with Arcadis. Borehole advancement drilling was completed using rotosonic drilling techniques. The drilling equipment consisted of a 150CC compact track mounted rotasonic drill rig equipped with four-inch sonic core rods with a six-inch outer-casing sleeve. During the drilling, continuous core samples were logged in the field for lithologic properties.

#### 2.2 Screened Interval

Piezometer PZ-37D was screened in the bedrock zone. The monitoring well is constructed with ten feet of prepacked well screen. The screen was placed near the bottom of the borehole with a flush-threaded PVC end cap placed on the bottom of each well to provide a 0.4-foot sump/sediment trap.

#### 2.3 Well Construction Materials

The piezometer well was designed and constructed to: (1) allow sufficient groundwater flow to the well for sampling; (2) minimize the passage of formation materials (turbidity) into the wells; and (3) ensure sufficient structural integrity to prevent collapse of the well. The well was constructed of 2-inch inside diameter Schedule 40 polyvinyl chloride (PVC) casing affixed to a dual-wall slotted 10-foot U-Pack<sup>®</sup> PVC screen. The U-Pack<sup>®</sup> well screens consist of a 3-inch diameter outer PVC well screen and a 2-inch centralized inner PVC well screen in one integrated unit. Factory slotted 0.010-inch screens were used. Southern Products and Silica filter pack sand size #1 (approximate 16-40 sieve size) was placed within the void space. The construction materials are ink-free, National Science Foundation (NSF) approved, and do not contain glues or solvents. Casing and screen sections are flush-threaded (ASTM-F-480).

#### 2.3.1 Filter Pack

Following placement of the well screen and casing, the annular space adjacent to the well screen was filled with Southern Products and Silica filter pack sand size #1. This size sand is an approximately 16-40 sieve range, medium fine well-rounded quartz (silica) sand. Filter pack material was placed within the void space of the U-Pack<sup>®</sup> well screen and the annular space outside of the well screen extended approximately two feet above the top of the well screen. The depth of top of filter pack was measured and recorded in the well construction log provided in **Appendix A**.

After placing the filter pack and prior to installing the annular seal, the well was pumped for at least 30 minutes to ensure proper settlement of the filter pack. Prior to installing the annular seal, the depth to the filter pack was remeasured to ensure a minimum of two feet was present above the screen.

#### 2.3.2 Annular Seal

An annular seal composed of approximately three feet of hydrated bentonite pellets was placed on top of the filter pack by slowly pouring the material down the borehole and tamping it into place with a tremie pipe. The bentonite was hydrated and allowed to cure prior to grouting the well.

Following hydration of the bentonite, the remaining annular space was tremie-grouted with a 30% solids bentonite grout (AQUAGARD<sup>®</sup>). The monitoring well surface completion consists of a locked, aluminum protective casing and a four-foot by four-foot by four-inch concrete pad.

#### 2.3.3 Cap and Protective Casing

The well riser was fitted with a locking cap and a lockable cover. A one-quarter inch vent hole in the PVC riser pipe provides an avenue for the escape of gas. The protective cap guards the casing from damage and the locking cap serves as a security device to prevent well tampering. Bollards were installed around the four corners of the concrete pad to protect the well.

A weep hole was drilled in the outer protective casing near the bottom above the concrete pad. Pea gravel was placed inside the protective casing between the riser pipe and the outer casing. The well is marked with the proper well identification number on the stand-up casing.

# 3 WELL DEVELOPMENT

The monitoring well was initially developed using a combination of surging with a weighted bailer (1.6 inches x 36 inches) and pumping with a Grundfos Redi-Flo 2 submersible pump to minimize turbidity during groundwater sampling. The well was surged in 10-inch strokes across the well screen five times. Turbidity, pH, temperature, and conductivity measurements ensured that the well was fully developed. Final turbidity measurements following development were less than 5 NTUs before the well was developed dry. The development forms are included in **Appendix B**.

# 4 SURVEY

The monitoring well location and top of casing (TOC) elevations were surveyed by Arcadis. Horizontal survey locations are relative to the Georgia State Plane Coordinate System, West Zone, NAD83, US Survey Feet. All horizontal locations meet or exceed an accuracy of 0.50 foot. Vertical elevations are referenced to NAVD1988, US Survey Feet and meet an accuracy standard of 0.01 foot. A detailed survey report is included in **Appendix C**.

#### **5 REFERENCES**

Georgia Environmental Protection Division, Georgia Department of Natural Resources. Manual for Groundwater Monitoring, September 1991.

# TABLE





Monument	Installation Date	Northing	Easting	Ground Elevation	Top of Casing Elevation (TOC)	Top of Screen Elevation	Bottom of Screen Elevation	Total Depth (ft bTOC)
PZ-37D	4/16/2021	1256478.32	2074688.08	758.8	761.12	568.8	558.8	202.3

Notes: Elevation in U.S. Survey Feet (NAVD88) Northing and Easting Georgia State Plane West, NAD83 Latitude and Longitude, WGS84

# **FIGURE**





#### LEGEND

- SAPROLITE NETWORK MONITORING  $\bullet$ WELL LOCATION
- TRANSITION NETWORK MONITORING  $\bullet$ WELL LOCATION
- BEDROCK NETWORK MONITORING • WELL LOCATION
- SAPROLITE NON-NETWORK WELL/PIEZOMETER ۲
- TRANSITION NON-NETWORK  $\bigcirc$ WELL/PIEZOMETER
- BEDROCK NON-NETWORK WELL/PIEZOMETER ۲
- PERMITTED UNIT BOUNDARY

#### NOTE:

1. PZ-37D WAS INSTALLED AS A VERTICAL DELINEATION WELL FOR PZ-37 IN APRIL 2021.

2. AERIAL IMAGE SOURCES: NOVEMBER 11, 2020 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.



COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET





FIGURE

1



84°52'40"W

# **APPENDIX A**

Well Driller Performance Bond





#### CONTINUATION CERTIFICATE

Atlantic Specialty In	surance Company , Surety upon
a certain Bond No.	800031223
dated effective	June 30, 2017 (MONTH-DAY-YEAR)
on behalf of	Michael C. Rice and Cascade Drilling, L.P., any and all employees, officers and partners (PRINCIPAL)
and in favor of	State of Georgia (OBLIGEE)
does hereby continue	said bond in force for the further period
beginning on	June 30, 2019 (MONTH-DAY-YEAR)
and ending on	June 30, 2021 (MONTH-DAY-YEAR)
Amount of bond	Thirty Thousand and Zero/100 (\$30,000.00)
Description of bond	Water Well Contractor Performance Bond
Premium:	\$1,200.00
<b>PROVIDED:</b> That the provision that the Sunot be cumulative and account of all default shall not in any event Signed and dated on	his continuation certificate does not create a new obligation and is executed upon the express condition and arety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on its committed during the period (regardless of the number of years) said bond had been and shall be in force, t exceed the amount of said bond as hereinbefore set forth. May 9, 2019
	(MONTH-DAY-YEAR) Atlantic Specialty Insurance Company
	ByAttorney-in-Fact Elizabeth R. Hahn
	Parker, Smith & Feek, Inc.
	2233 112th Ave NE Bellevue, WA 98004 Address of Agent
	(425) 709-3600 Telephone Number of Agent



#### **Power of Attorney**

KNOW ALL MEN BY THESE PRESENTS, that ATLANTIC SPECIALTY INSURANCE COMPANY, a New York corporation with its principal office in Plymouth, Minnesota, does hereby constitute and appoint: **Deanna M. French, Susan B. Larson, Elizabeth R. Hahn, Jana M. Roy, Scott McGilvray, Mindee L. Rankin, Ronald J. Lange, John R. Claeys, Roger Kaltenbach, Guy Armfield, Scott Fisher, Andrew P. Larsen, Nicholas Fredrickson**, each individually if there be more than one named, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof; provided that no bond or undertaking executed under this authority shall exceed in amount the sum of: sixty million **dollars (\$60,000,000)** and the execution of such bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof in pursuance of these presents, shall be as binding upon said Company as if they had been fully signed by an authorized officer of the Company and sealed with the Company seal. This Power of Attorney is made and executed by authority of the following resolutions adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the

Resolved: That the President, any Senior Vice President or Vice-President (each an "Authorized Officer") may execute for and in behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and affix the seal of the Company thereto; and that the Authorized Officer may appoint and authorize an Attorney-in-Fact to execute on behalf of the Company any and all such instruments and to affix the Company seal thereto; and that the Authorized Officer may at any time remove any such Attorney-in-Fact and revoke all power and authority given to any such Attorney-in-Fact.

Resolved: That the Attorney-in-Fact may be given full power and authority to execute for and in the name and on behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed and sealed by an Authorized Officer and, further, the Attorney-in-Fact is hereby authorized to verify any affidavit required to be attached to bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof.

This power of attorney is signed and sealed by facsimile under the authority of the following Resolution adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the signature of an Authorized Officer, the signature of the Secretary or the Assistant Secretary, and the Company seal may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing an Attorney-in-Fact for purposes only of executing and sealing any bond, undertaking, recognizance or other written obligation in the nature thereof, and any such signature and seal where so used, being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

Bv

IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this twenty-sixth day of October, 2017.



STATE OF MINNESOTA HENNEPIN COUNTY

On this twenty-sixth day of October, 2017, before me personally came Paul J. Brehm, Senior Vice President of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and he acknowledged the execution of the same, and being by me duly sworn, that he is the said officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the seal of said Company and that the said seal and the signature as such officer was duly affixed and subscribed to the said instrument by the authority and at the direction of the Company.



Notary Public

Paul J. Brehm, Senior Vice President

I, the undersigned, Secretary of ATLANTIC SPECIALTY INSURANCE COMPANY, a New York Corporation, do hereby certify that the foregoing power of attorney is in full force and has not been revoked, and the resolutions set for a bove are now in force.

day of MAIN 2019 Signed and sealed. Dated HPOR+ SFAL This Power of Attorney expires 986 October 1, 2019

12

Christopher V. Jerry, Secretary

# **APPENDIX B**

Well Construction & Development Logs


AR	CAD	S for restur	alardi eti					Boring	No.: PZ-37D		
Borin	a Lo	a/W	ell Co	nstruction l	_oa				Sheet: 1 of	11	
Project N	Name:	Plant	Yates				Date Started: 04/05/2021	_Logger: <u>Grant</u>	Willford		
Project N Project L	lumber: .ocation	<u>30080</u> Newn:	<u>6734</u> nan. GA			D	ate Completed: <u>04/16/2021</u> Weather C	_ Editor: <u>Grant</u> conditions: -	Willford		
Denth	Commun	Diam	Deserver						Construction		
(feet)	Interval	Counts	(in.)	Photo Log	(ppm)	Log	Description		Details	W	ell
(feet) 0 1 2 3 - 4 - - - - - - - - - - - - -		Counts	(in.)		(ppm)		Sandy clay (CL); 2.5YR 5/8; some silt; I grained to fine grained sand; angular to plasticity; dry. Silty sand (SM); 2.5Y 8/3 (pale brown) 1 7/1 (light gray); very fine grained to mer angular to sub angular; little silt; trace c granules; angular; granules composed of micaceous; dry. Silty sand (SM); 2.5Y 6/4 (light yellowis 2.5Y 7/1 (light gray) and GLEY1 10GY gray) mottled through out; very fine grai grained sand; angular to sub angular; s micaceous; saprolitic; moist.	h brown) with 5/1 (greenish ned to fine ome silt; little clay;	Details         Surface completion consists of a locking monument 2.32 ft. above ground surface with a weep hole, vent hole in well casing; 4'x4'x4' concrete pad; four bollards         ✓         30% solids bentonite grout (AQUAGUARD) 3-in. outer dia. — with 2-in inner dia. Sch 40 PVC riser.		
			120	-							
Drilling C	<u> </u>	<u>Ca</u> sca	ade	1000		<u> .: </u>	Sampling Method: Core Ba	arrel			
Driller:		David	Wilcox				Sampling Interval: <u>Contine</u>	ous			
Drilling N	lethod:	Rotos	sonic				Water Level Start (ft. bgs.)	:			
Bemarke	iuid:	<u>vvate</u> '/ft=	r feet <sup>.</sup> " / in :	= inch: bas = below a	ound su	rface:	water Level ⊢inish (tt. btoo Converted to Well·	:.): <u>5.98</u> Yes Γ	No		
NA = not	, applicable	/ availal	ble.				Surface Elev.: <u>758.8</u>				
							North Coor: 1256478.32	2			
							East Coor: 2074688.08	3			

Boring Log/Well Construction Log         Date Started:         U.dge: Starting         Coget: V.mime           Project Name:         End Started:         0.405/2021         Editor:         Centre Villad           Project Name:         Editor:         Centre Villad         Editor:         Centre Villad         Villad           Project Name:         Editor:         Remain:         Centre Villad         Viel         Viel         Viel           Project Name:         Editor:         Remain:         Centre Villad         Viel	AR	CADIS	for notice boilt inse	landi Hi					Boring	No.: PZ-37D		
Pojest Wumer Pint Yales Date Starte: 0405/2021 Logge: Crant Wilford Project Location: Newnan, GA Weather Conditions:	Borin	ig Log	/We	ell Co	nstruction l	_og				Sheet: 2 of	11	
Indext Number         Source/Source         Date Complexity         Example         Complexity           Depth         Standal         Records         Image: Source Source         Weether Conditions:	Project I	Name:	Plant	Yates				Date Started: 04/05/2021	Logger: <u>Grant</u>	Willford		
Depth (rest)     Sample Blow (n)     Penoto Log (pm)     PLD Craphic (pm)     Description     Construction (penol)     Well       17	Project I	ocation:	<u>Newn</u>	an, GA			D	Weather C	onditions: -	VVIIIIOI a		
Interval         Courts         (n)         Proto Log         (n)         Log         Description         Descrint         Descrint         Desc	Depth	Sample	Blow	Recovery		PID	Graphic			Construction		
17	(feet)	Interval C	ounts	(in.)	Photo Log	(ppm)	Log	Description		Details	W	
Remarks:				30				<ul> <li>Well-graded sand (SW); 2.5Y 8/1 (white grained to very coarse grained sand; tracomposed of quartz.</li> <li>Silty sand (SM); 2.5Y 6/4 (light yellowisi 2.5Y 7/1 (light gray) and GLEY1 10GY gray) mottled through out; very fine grai grained sand; angular to sub angular; so micaceous; saprolitic; moist.</li> <li>Pulverized rock composed of quartz.</li> <li>Gneiss (Partially Weathered Rock); blac some greenish gray mineral grains; fine coarse mineral grains; gneissic rock tex very strong rock strength; partially weat cobbles range from 0.2 to 0.4 ft in leng red staining on majority of rock cobble crystals observed.</li> <li>Decrease in mineral grains; dark to light oral rock cobbles; slight increase in cobble s</li> </ul>	e); very fine ce gravel; gravel h brown) with 5/1 (greenish ned to fine ome silt; little clay; ck, white and grained to very ture; strong to athered; rock gth;some dark s; some pyrite	30% solids bentonite grout (AQUAGUARD) 3-in. outer dia. with 2-in inner dia. Sch 40 PVC riser.		
	Remark	3:										

				Boring	No.: PZ-37D		
Boring Log/Well Construction	Loa				Shoot: 2 of	11	
Project Name: <u>Plant Yates</u>	3		Date Started: 04/05/2021	Logger: <u>Grant</u>	Willford		
Project Number: <u>30086734</u>		D	ate Completed: <u>04/16/2021</u>	_ Editor: <u>Grant</u>	Willford		
Project Location: <u>Newnan, GA</u>			Weather C	onditions: <u>-</u>			
Depth Sample Blow Recovery (feet) Interval Counts (in.) Photo Log	PID (ppm)	Graphic Log	Description		Construction Details	We	ell
36       37       38         39       39       39         40       40       40         41       42       41         42       43       96         44       96       96         44       96       96         50       53       53         54       53       54			Cneiss (Bedrock); black and white with minerals grains; geissic rock texture; ve strength; fresh rock; trace partially weat cobbles; little to trace red staining on cobbles; some pyrite crystals observed.	little greenish gray y coarse grained ry strong rock hered rock rock	30% solids bentonite grout (AQUAGUARD) 3-in. outer dia. with 2-in inner — dia. Sch 40 PVC riser.		
De la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la constancia de la							

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Borir	ng Loo	a/We	ell Co	nstruction l	_oq					Sheet <sup>.</sup>	4 of	11	
Project	Name:	<u>Plant</u>	Yates				Date Started: 04/05/2021	_Logger:	Grant	Willford			
Project	Number:	30086	6734			D	ate Completed: 04/16/2021	_ Editor:	<u>Grant</u>	Willford			
Project	Location:	<u>Newn</u>	ian, GA				Weather C	onditions:	-				
Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Photo Log	PID (ppm)	Graphic Log	Description			Const De	ruction tails	We	ell
			120				Gneiss (Bedrock); black and white with minerals grains; very fine grained to ver mineral grains; gneissic rock texture; ve strength; fresh rock; trace partially weat cobbles; little to trace red staining on r cobbles; some pyrite crystals observed.	ame composed zone.	h gray ined ck	30% so bentoni (AQUAt 3-in. ou with 2-in dia. Sch PVC ris	lids lids re grout GUARD) ter dia n inner h 40 er.		

			Boring	No.: PZ-37D		
Boring Log/Well Construction I	_og			Sheet: 5 of	11	
Project Name: Plant Yates		Date Started: 04/05/2021	Logger: <u>Grant</u>	Willford		
Project Number: <u>30080734</u> Project Location: Newnan, GA	U	Weather C	onditions: -	vviillora		
Danth Samula Plau Pagayany	DID Craphia			Construction		
(feet) Interval Counts (in.) Photo Log	(ppm) Log	Description		Details	We	ell
Depth Sample Blow Recovery Photo Log  75 108 108  76 108  77 108	PID Graphic Log	Description         Gneiss (Bedrock); same composition above; trace to no staining on rock co         78.0-79.0 ft bgs; some staining on rock         Gneiss (Partially Weathered Rock); sate described above; partially weathered abundant red staining on rock cobbles         Gneiss (Bedrock); same composition above; trace to no red staining on rock         Gneiss (Partially Weathered Rock); sate as described above; partially weathered Rock); sate composition above; trace to no red staining on rock ables         Gneiss (Bedrock); same composition above; trace red staining on rock cobbles	as described bbles.	Construction Details		
Remarks:		1				

				Borir	ng No.: PZ-37D	
Boring Log/Well Construction	Loa				Sheet: 6 of	11
Project Name: Plant Yates			Date Started: 04/05/2021	_Logger: <u>Gra</u>	nt Willford	
Project Number: <u>30086734</u>		D	ate Completed: 04/16/2021	_ Editor: <u>Grai</u>	nt Willford	
Project Location: <u>Newnan, GA</u>		_	Weather C	onditions: <u>-</u>		
Depth (feet)         Sample Interval         Blow Counts         Recovery (in.)         Photo Log	PID (ppm)	Graphic Log	Description		Construction Details	Well
94 95 96 97 98 98 99 98 102 98 99 100 100 100 101 102 103 104 104 104 105 108 108 108 108 108 108 108 108			Gneiss (Bedrock); same composition above; trace red staining on rock cobb	as described ples.	30% solids bentonite grout (AQUAGUARD) 3-in. outer dia with 2-in inner dia. Sch 40 PVC riser.	

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Boring Log/Well Construction Log	Sheet 7 of	11
Project Name: Plant Yates Date Started: 04/05/2021 Logger: Grant	t Willford	
Project Number: <u>30086734</u> Date Completed: <u>04/16/2021</u> Editor: <u>Grant</u>	t Willford	
Project Location: <u>Newnan, GA</u> Weather Conditions:		
Depth (feet)         Sample Interval         Blow Counts         Recovery (in.)         Photo Log         PID (ppm)         Graphic Log         Description	Construction Details	Well
(ree)     Interval Counts     (in.)     Pindo Usig     (ppm)     Log     Log       113.	Details	
Remarks:		

				Boring	No.: PZ-37D		_
Boring Log/Well Construction	Log				Sheet: 8 of	11	
Project Name: <u>Plant Yates</u>	0		Date Started: 04/05/2021	Logger: Grant	t Willford		_
Project Number: <u>30086734</u> Project Location: Newnan, GA		D	ate Completed: <u>04/16/2021</u> Weather C	_ Editor: <u>Grant</u>	t Willford		_
	1						_
Depth (feet)         Sample Interval         Blow Counts         Recovery (in.)         Photo Log	PID (ppm)	Graphic Log	Description		Construction Details	Well	
132     42       133     42       134     54       135     54       136     54       137     54       138     54       139     54       140     6       141     102       144     102       144     102       148     102       148     102       151     102			Gneiss (Bedrock); same composition above; little to trace red-orangish red cobbles	as described staining on rock	30% solids bentonite grout (AQUAGUARD) 3-in. outer dia. with 2-in inner dia. Sch 40 PVC riser.		
							_
							-

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Borir	ng Lo	g/W	ell Co	nstruction L	_og				Sheet: 9 of	11	
Project	Name:	Plant	Yates				Date Started: 04/05/2021	Logger: <u>Gran</u>	t Willford		
Project	Number: Location	: Newr	<u>6734</u> nan, GA			D	ate Completed: <u>04/16/2021</u> Weather C	_ Editor: <u>Gran</u> onditions: -	t vv ilitora		
		Di	-						0 1 1	<u> </u>	
(feet)	Sample	Blow Counts	Recovery (in.)	Photo Log	PID (ppm)	Graphic Log	Description		Details	We	əll
(1601) (1601) (1601) (1501) (151) (153) (153) (154) (155) (156) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157) (157)	s:		96				Gneiss (Bedrock); same composition above; little to trace red-orangish red cobbles	very fine orphyblast	30% solids bentonite grout (AQUAGUARD) 3-in. outer dia with 2-in inner dia. Sch 40 PVC riser.		

	RCAD	IS tor note	na artí					Borir	ng N	o.: PZ-3	7D		
Borir	ng Lo	a/W	ell Co	nstruction l	_oq				Sh	leet 1	) o	f 11	
Project	Name:	Plant	Yates		U		Date Started: 04/05/2021	_Logger: <u>Gra</u>	nt V	Villford			
Project	Number:	<u>3008</u>	6734			Da	ate Completed: <u>04/16/2021</u>	_ Editor: <u>Gra</u>	nt V	Villford			
Project	Location	: <u>Newr</u>	nan, GA				Weather C	onditions: <u>-</u>					
Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Photo Log	PID (ppm)	Graphic Log	Description			Constru Deta	iction ils	We	ell
		Counts	120 120	Photo Log	(ppm)		Gniess (Bedrock); same composition above; little to trace red-orangish red cobbles	as described staining on rock		30% solid bentonite (AQUAG 3-in. oute with 2-in dia. Sch 4 PVC rised Bentonit (Pel-Plu inch pel	e seal grout JARD r dia r.		
188 188 189										Filter Pa No.1 (1)	ack _ 6-40)		
Remark	s:												
2									_				_

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Borir	na Lo	a/W	ell Co	nstruction L	_oa				Sheet: 11 of	11
Project	Name:	Plant	Yates		9		Date Started: 04/05/2021	_Logger: <u>Gran</u> t	t Willford	
Project	Number:	<u>3008</u>	6734			D	ate Completed: 04/16/2021	_ Editor: <u>Grant</u>	t Willford	
Project	Location	: <u>Newr</u>	nan, GA				Weather C	onditions: <u>-</u>		
Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Photo Log	PID (ppm)	Graphic Log	Description		Construction Details	Well
			114				Gneiss (Bedrock); same composition above; little to trace red-orangish red cobbles	as described staining on rock	3-inch outer dia. with 2 inch inner dia U-Pack Sch. 40 PVC, — 0.010-in slot; 16-40 filter pack	
Remark	S:									
· • • • • • • • • • • • • • • • • • • •										

				W	ELL DEVELOPMENT LO
Project No.					Well 1D P2-370
Site Location	lant Yates				
Evacuation Dat	a:				
Depth to bottom	of well (ft bls	, 200, 2	8 Casi	ng stick-up above	e concrete (feet) 2.44
Depth to water t	from top of cas	sing 5.906+	oc(ft) Scre	ened Interval (ft	bls) 140-200
Water Column	194.3 (ft) G	allons in well	31.09 Casi	ing Diameter:	2`
Casing Volume	<u>1"=0.04 gal g</u>	al/ft, 2"=0.16	gal/ft		
pit i cup o	n porsing a		<u></u>	Specific	i
Date/Time	Gallons Removed	pH/cap	Temperature (°C)	Conductance	Appearance/
4/2010224 08AD	0.1	7.97/1761	15.44.99	(µ11110s/cm) 195.1	Indial inster amilian
1008	~0.5	/	/	/	WL after instilling
1015	1.25	7.71/70.7	169	461.2	Clear /0.25
PLOI	3.5	/	/	/	Incrused 1. 56th
1030	12.5	7.91/-17:0	17.5/0.54	411.5	Clear/1.5GPM
1035	20	7.987-33.3	17.7/0.69	350.7	Clear /1. St. Pm
1042	27	301/23.1	10.2/0.71	297.6	Clear 1.06PM
1050	30	804/10.0	185/0.63	329.7	Clear Superiodo D.
1055	32-5312	7.93/13.0	10.6/0.59	380.9	Clear 10 5500
1120	37.50	7.87/41.0	19.1/0.47	478.3	Clear/ 0.25G
1125	38.75	7.88/45.9	19.3/0.43	477.5	clear/0.2561
1130	40	7.86/520	19.3/0.42	485.9	Ueur/0.256A
-1135			/		Increased they
1154	NSD.79				Punport
Prepared By	60 0	irmt Wi	llcord	Date	4/20/2021

					WELL DEWELUPMENT
Project No					Well ID 12-370
Site Location	Plant YA	45			
Evacuation D	ata:				
Depth to botto	m of well (ft bls	)_200.	18 Cas	sing stick-up abov	e concrete (feet) _2.4
Depth to water	from top of cas	ing 5.91	36 for Scr	eened Interval (ft	bls) 190-200
Water Column	<u>194-3</u> (ft) G	allons in we	11_ <u>31.09</u> Cas	ing Diameter:	2"
Casing Volume	e <u>1"=0.04 gal ga</u>	1/ft, 2"=0.1	6 gal/ft		
			1_	Specific	1
Date/Time	Gallons Removed	рН	Temperature (°C)	Conductance (µmhos/cm)	Appearance
1200	~50.79	1		/	monitor recharge
1205		/	1	/	ł
1210		1		/	
1215		/		/	
1312	/	/		/	
		/		~	
			-in		
	X	10			÷
	900		1/2 2		
	/		1/ 20120	21	
$\neg \uparrow$					
red By G	rant W?	Ilford		Date	4/20/2021

C:\Users\blovgren\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Outlook\9ATF5P3H\Well development\_log.doc



Well Survey Report





Ms. Lauren Coker Southern Company Environmental Solutions 241 Ralph McGill Blvd, NE Atlanta, GA 30308

<sup>Subject:</sup> Piezometer Survey – PZ-37D Plant Yates, 708 Dyer Road, Newnan, Georgia

Dear Ms. Coker:

Attached is a copy of the survey report for Piezometer PZ-37D at Plant Yates.

We appreciate the opportunity to work with Georgia Power and look forward to working with you in the future. If you need additional information, please feel free to contact me.

Sincerely,

Arcadis U.S., Inc.

SW-

A. Cory Williams, RLS Survey Department Manager

Attachments

Copies: Geoffrey Gay, PE Arcadis U.S., Inc. 1210 Premier Drive Suite 200 Chattanooga Tennessee 37421 Tel 423 756 7193 Fax 423 756 7197 www.arcadis-us.com

<sup>Date:</sup> May 11, 2021

Contact: Cory Williams, RLS

Phone: 919.415.2348

Email: cory.williams@arcadis.com

Our ref: 30086734

## **DESCRIPTION AND SCOPE**

Arcadis performed horizontal and vertical field survey locations of the existing well networks, including all monitoring wells and piezometers. The Arcadis field survey team obtained horizontal and vertical locations for the top of the well casing (TOC) and surveyed the nail located on the concrete pad around the well. Where no nail was present, the field crew surveyed the top of the concrete well pad.

The Arcadis field team utilized a combination of Leica GS16 Global Positioning System (GPS) with traditional Leica MS60 Robotic Total Station field survey equipment and methods to obtain horizontal locations of the TOC and/or nail or top of the concrete well pad. All horizontal field survey locations are relative to the Georgia State Plane Coordinate System, West Zone, NAD1983, US Survey Feet. All horizontal locations meet or exceed an accuracy level of 0.50 foot. All vertical field survey locations were obtained from a level loop, performed with the Leica DNA03 digital level.

Next, we began from a benchmark set by utilizing GPS Static Session with an OPUS solution and subsequently verified via the eGPS RTN Network and ran through all well and piezometer locations to close on the beginning benchmark to confirm accuracy. All vertical elevations are referenced to NAVD1988, US Survey Feet and meet an accuracy standard of 0.01 foot.

See the attached exhibit detailing the surveyed location for Piezometer PZ-37D.

## CERTIFICATION

I, A. Cory Williams, being a Georgia Licensed Professional Land Surveyor, in accordance with the Georgia Board of Professional Engineers and Land Surveyors do hereby certify that the information contained herein is true and correct and has been prepared in accordance with generally accepted good land survey practices under my supervision, and the data is reliable to a horizontal accuracy of 0.5 foot and an elevational accuracy of 0.01 foot for each surveyed point.

FINAL REVIEW:

A. Cory Williams, RLS

DATE: May 11, 2021

ORG

A. Cory Williams, RLS 1210 Premier Drive, Suite 200 Chattanooga, TN 37421 919.415.2348



#### **EXHIBIT 1**

## Plant Yates – AMA Monitoring Well and Piezometer Surveys

	Concrete		Georgia State Plane Grid (NAD83), West Zone			
Monument	Base Point	Elevation	Northing	Easting	WGS84 Latitude	Longitude
PZ-37D	Casing	761.12	1256478.32	2074688.08	33° 27' 07.578" N	84° 53' 39.058" W
(added May	Disk	758.87	1256479.07	2074688.90		
2021)	Ground	758.8				

Notes:

NAD83(2011) coordinates established by utilizing eGPS VRS & OPUS Solutions

Elevations derived from Arcadis BM#1 (El. 758.24)

Elevations & coordinates are U.S. Survey feet



Arcadis U.S., Inc.

2839 Paces Ferry Road Suite 900 Atlanta, Georgia 30339 Tel 770 431 8666 Fax 770 435 2666

www.arcadis.com

## **APPENDIX D**

Analytical Laboratory Data and Validation Reports (February and March 2021)

2021 Semiannual Groundwater and Corrective Action Report Plant Yates AP-3, A, B, B' and R6 CCR Landfill Newnan, GA

# February 2021

Annual Assessment Event





## Georgia Power Co. – Plant Yates

## **DATA REVIEW**

Metals, Radium, and General Chemistry Analyses SDGs # 92521564, 92521572, 92521574 and 92521583

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

Report #41026R Review Level: Tier II Project: 30052922.00004

## **SUMMARY**

This data quality assessment summarizes the review of Sample Delivery Groups (SDGs) # 92521564, 92521572, 92521574 and 92521583 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		Analysis		
SDG	Sample ID	Lab ID	Matrix	Collection Date	Parent Sample	RAD	MET	GEN CHEM
	YGWC-38	92521564-1 92521574-1	Water	02/09/21		х	Х	Х
	YGWC-41	92521564-2 92521574-2	Water	02/10/21		х	Х	Х
	YGWC-42	92521564-3 92521574-3	Water	02/10/21		х	Х	х
	YGWC-43	92521564-4 92521574-4	Water	02/09/21		x	х	х
92521564	EB-01	92521564-5 92521574-5	Water	02/10/21		x	х	х
92521574	YGWC-23S	92521564-6 92521574-6	Water	02/09/21		x	Х	х
	YGWC-49	92521564-7 92521574-7	Water	02/09/21		х	Х	Х
	YGWC-24SA	92521564-8 92521574-8	Water	02/09/21		х	Х	Х
	DUP-02	92521564-9 92521574-9	Water	02/09/21	YGWC-24SA	х	Х	х
	YGWC-36A	92521564-10 92521574-10	Water	02/10/21		х	Х	х
	PZ-37	92521572-1 92521583-1	Water	02/09/21		х	Х	х
92521572	YAMW-2	92521572-3 92521583-3	Water	02/09/21		x	х	х
92521583	YAMW-4	92521572-4 92521583-4	Water	02/09/21		x	х	х
	YAMW-5	92521572-5 92521583-5	Water	02/09/21		x	х	х
92521572	YAMW-1	92521572-6	Water	02/09/21		х	х	Х

				Sample		Analysis		
SDG	Sample ID	Lab ID	Matrix	Collection Date	Parent Sample	RAD	MET	GEN CHEM
92521583		92521583-6						
	PZ-35	92521572-7 92521583-7	Water	02/10/21		х	х	х

Notes:

- 1. Metals were performed by Pace Analytical Services Peachtree Corners, Georgia.
- 2. Anions (fluoride) 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 is the evaluation of the data package completeness.

		Reported		Performance Acceptable		Not	
	Items Reviewed	No	Yes	No	Yes	Required	
1.	Sample receipt condition		Х		Х		
2.	Requested analyses and sample results		Х		Х		
3.	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 (COC) 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, 9315, and 9320; Standard Method (SM) SM4500-H+ B 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 National Functional Guidelines for Inorganic Superfund Methods Data Review (January2017).

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 reported sample detection 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 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 associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (B) of data. 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-41			
YGWC-42	Lead (EB)	Detected sample results <rl <bal<="" and="" td=""><td>"UB" at the RL</td></rl>	"UB" at the RL
YGWC-36A			

Note:

EB = Equipment blank

RL = Reporting limit

MB = Method Blank

## 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 performed on samples YGWC-38 and PZ-37 exhibited recoveries and RPDs 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 RPD.

## 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.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Barium	0.031	0.030	AC
	Beryllium	0.00013 J	0.00014 J	AC
YGWC-24SA / DUP-02	Chromium	0.0011 J	0.0013 J	AC
	Lead	0.00036 J	0.00036 J	AC

Results for duplicate samples are summarized in the following table.

Note:

AC = Acceptable

The RPD between the parent samples and the field duplicate samples 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		mance ptable	Not	
		Yes	No	Yes	Required	
Inductively Coupled Plasma-Atomic Emission Spectrometer	ry (ICP-AE	S)				
Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)	1					
Atomic Absorption – Manual Cold Vapor (CV)						
Tier II Validation						
Holding Times		Х		Х		
Reporting limits (units)		Х		Х		
Blanks						
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		
Field/Lab Duplicate (RPD)		Х		Х		
Reporting Limit Verification		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
Fluoride 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 performed on sample DUP-02 for the fluoride analysis exhibited recoveries and RPDs within the control limits.

All analytes associated with MS/MSD recoveries were within control limits with the exception of the following analyte present in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
YGWC-38	Fluoride	146%	142%

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

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

Laboratory duplicate analysis was not performed using a sample from this SDG.

## 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 Duplicate Result Result		RPD
YGWC-24SA / DUP-02	Fluoride	0.10 U	0.10 U	AC

Notes:

AC = Acceptable

The RPD between the parent samples and the field duplicate samples 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 and	Reported		Performance Acceptable		Not
USEPA 300.0	No	Yes	No	Yes	Required
Miscellaneous Instrumentation					
Tier II Validation					
Holding times		х		Х	
Reporting limits (units)		х		Х	
Blanks					
A. Method Blanks		х		x	
B. Equipment 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	
Field/Lab Duplicate (RPD)		Х		Х	
Dilution Factor		Х		Х	
Moisture Content	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 reporting limit (RL) of 1 pCi/L.

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 minimum detectable concentration (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  $_{MethodBlank} = \frac{|Sample - Blank|}{\sqrt{(U_{Sample})^2 + (U_{Blank})^2}}$ 

Where:

 $U_{Sample}$  = uncertainty of the sample  $U_{Blank}$  = uncertainty of the blank Sample = concentration of isotope in sample Blank = concentration of isotope in blank

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

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

Radium-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 < +/-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.

The MS/MSD performed on sample YGWC-38 exhibited recoveries and RPDs within the control limits.

## 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.

A laboratory duplicate was not included in the data package.

## 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:

For all analyses in soil matrices, 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 analysis is used to assess the overall precision of the field sampling procedures and analytical method. For results greater than five times the MDC, a control limit of 35 percent for water matrices is applied to the RPD between the parent and field duplicate sample results. If the parent and field duplicate sample results are less than five times the MDC, for water matrices a control limit of two times the MDC is applied to the difference between the results.

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

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD	
YGWC-24SA / DUP-02	Radium-226	0.100 +/-0.114	0.153 +/-0.130		
	Radium-228	0.578 +/- 0.379	0.310 +/- 0.321	AC	
	Total Radium	0.678 +/- 0.493	0.463 +/- 0.451		

Notes:
#### DATA REVIEW REPORT

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
------------------------	---------	---------------	------------------	-----

AC = Acceptable

The RPD between the parent samples and the field duplicate samples 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% to110% is applied to each sample spiked with either a carrier and/or a tracer.

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

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

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

The numerical performance indicator for a laboratory control sample is calculated

by:

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

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

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

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

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

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

## 7. Isotope Identification

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

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

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

#### DATA REVIEW REPORT

- YGWC-38 Radium 228 and Total Radium
- YGWC-41 Radium 226, Radium 228 and Total Radium
- YGWC-42 Radium 226, Radium 228 and Total Radium
- EB-01 Radium 226, Radium 228 and Total Radium
- YGWC-23S Radium 226, Radium 228 and Total Radium
- YGWC-49 Radium 226, Radium 228 and Total Radium
- YGWC-24SA Radium 226, Radium 228 and Total Radium
- DUP-02 Radium 226, Radium 228 and Total Radium
- YGWC-36A Radium 226, Radium 228 and Total Radium
- YAMW-2 Radium 226, Radium 228 and Total Radium
- YAMW-4 Radium 226, Radium 228 and Total Radium
- YAMW-5 Radium 228 and Total Radium
- YAMW-1 Radium 226, Radium 228 and Total Radium
- PZ-35 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 REVIEW REPORT

# DATA VALIDATION CHECKLIST FOR RADIOLOGICALS

RADIOLOGICALS: SW-846 9315/9320	Repo	orted	Perfor Acce	mance ptable	Not
	No	Yes	No	Yes	Required
Gas-Flow Proportional System					
Tier II Validation					
Holding Times		Х		Х	
Activity, +/- uncertainty, MDC/MDA		Х		Х	
Blanks					
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)		Х		Х	
Laboratory Control Sample Duplicate (LCSD)		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	
Field/Lab Duplicate (RPD)		X		Х	

Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Rachelle Borne

SIGNATURE:

Jachule Band

DATE: May 14, 2021

PEER REVIEW: Jennifer Singer

DATE: May 18, 2021

# CHAIN OF CUSTODY / DATA QUALIFIER SUMMARY TABLE



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SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier						
	YGWC-41	6020	Lead	0.005	mg/L	UB	EB Contamination						
92521574	YGWC-42	6020	Lead	0.005	mg/L	UB	EB Contamination						
	YGWC-36A	6020	Lead	0.005	mg/L	UB	EB Contamination						
92521564				Nc	Qualifi	ers Added							
92521572		No Qualifiers Added											
92521583				No	Qualifi	ers Added							

Abbreviations:

mg/L = milligrams per liter

Qualifiers:

UB = not detected due to blank contamination J/UJ = Estimated



Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

February 23, 2021

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

RE: Project: YATES R6/AMA Pace Project No.: 92521574

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on February 10, 2021. 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,

Kandony

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR Geoffrey Gay, ARCADIS - Atlanta Kristen Jurinko Kelley Sharpe, ARCADIS - Atlanta Alex Simpson, Arcadis Samantha Thomas Maribel Vital





Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

#### CERTIFICATIONS

Project: YATES R6/AMA

Pace Project No.: 92521574

#### Pace Analytical Services Charlotte

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

#### Pace Analytical Services Asheville

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

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

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

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



Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

#### SAMPLE SUMMARY

Project:YATES R6/AMAPace Project No.:92521574

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92521574001	YGWC-38 (020921)	Water	02/09/21 13:50	02/10/21 17:10
92521574002	YGWC-41 (021021)	Water	02/10/21 13:25	02/10/21 17:10
92521574003	YGWC-42 (021021)	Water	02/10/21 14:30	02/10/21 17:10
92521574004	YGWC-43 (020921)	Water	02/09/21 15:30	02/10/21 17:10
92521574005	EB-01(021021)	Water	02/10/21 13:30	02/10/21 17:10
92521574006	YGWC-23S (020921)	Water	02/09/21 11:10	02/10/21 17:10
92521574007	YGWC-49(020921)	Water	02/09/21 15:15	02/10/21 17:10
92521574008	YGWC-24SA (020921)	Water	02/09/21 16:10	02/10/21 17:10
92521574009	DUP-02 (020921)	Water	02/09/21 00:00	02/10/21 17:10
92521574010	YGWC-36A (021021)	Water	02/10/21 14:30	02/10/21 17:10



#### SAMPLE ANALYTE COUNT

Project:YATES R6/AMAPace Project No.:92521574

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92521574001	YGWC-38 (020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521574002	YGWC-41 (021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521574003	YGWC-42 (021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521574004	YGWC-43 (020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521574005	EB-01(021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521574006	YGWC-23S (020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521574007	YGWC-49(020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521574008	YGWC-24SA (020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521574009	DUP-02 (020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521574010	YGWC-36A (021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1

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 R6/AMA

Pace Project No.: 92521574

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521574001	YGWC-38 (020921)					
	Performed by	CUSTOME R			02/23/21 08:10	
	рН	5.04	Std. Units		02/23/21 08:10	
EPA 6020B	Antimony	0.00031J	mg/L	0.0030	02/18/21 19:41	
EPA 6020B	Arsenic	0.00098J	mg/L	0.0050	02/18/21 19:41	
EPA 6020B	Barium	0.016	mg/L	0.010	02/18/21 19:41	
EPA 6020B	Beryllium	0.0029J	mg/L	0.0030	02/18/21 19:41	
EPA 6020B	Cadmium	0.0014J	ma/L	0.0025	02/18/21 19:41	
EPA 6020B	Lithium	0.0067J	ma/L	0.030	02/18/21 19:41	
EPA 6020B	Selenium	0.073	mg/L	0.010	02/18/21 19:41	
92521574002	YGWC-41 (021021)					
	Performed by	CUSTOME			02/23/21 08:10	
	На	R 4.98	Std. Units		02/23/21 08:10	
EPA 6020B	Antimony	0.0014J	ma/L	0.0030	02/18/21 20:03	
EPA 6020B	Barium	0.017	ma/L	0.010	02/18/21 20:03	
EPA 6020B	Bervllium	0.0015J	ma/l	0.0030	02/18/21 20:03	
EPA 6020B	Lead	0.00020J	ma/L	0.0050	02/18/21 20:03	
EPA 6020B	Lithium	0.0021J	ma/L	0.030	02/18/21 20:03	
EPA 6020B	Selenium	0.033	mg/L	0.010	02/18/21 20:03	
92521574003	YGWC-42 (021021)					
	Performed by	CUSTOME R			02/23/21 08:10	
	рН	5.65	Std. Units		02/23/21 08:10	
EPA 6020B	Antimony	0.00053J	mg/L	0.0030	02/18/21 20:09	
EPA 6020B	Arsenic	0.0016J	mg/L	0.0050	02/18/21 20:09	
EPA 6020B	Barium	0.031	mg/L	0.010	02/18/21 20:09	
EPA 6020B	Beryllium	0.000057J	mg/L	0.0030	02/18/21 20:09	
EPA 6020B	Cobalt	0.0019J	mg/L	0.0050	02/18/21 20:09	
EPA 6020B	Lead	0.000054J	mg/L	0.0050	02/18/21 20:09	
EPA 6020B	Lithium	0.058	mg/L	0.030	02/18/21 20:09	
EPA 6020B	Molybdenum	0.00094J	mg/L	0.010	02/18/21 20:09	
EPA 6020B	Selenium	0.043	mg/L	0.010	02/18/21 20:09	
92521574004	YGWC-43 (020921)					
	Performed by	CUSTOME R			02/23/21 08:10	
	рН	5.86	Std. Units		02/23/21 08:10	
EPA 6020B	Barium	0.041	mg/L	0.010	02/18/21 20:15	
EPA 6020B	Beryllium	0.00053J	mg/L	0.0030	02/18/21 20:15	
EPA 6020B	Cobalt	0.0017J	mg/L	0.0050	02/18/21 20:15	
EPA 6020B	Lithium	0.024J	mg/L	0.030	02/18/21 20:15	
EPA 6020B	Molybdenum	0.0012J	mg/L	0.010	02/18/21 20:15	
EPA 300.0 Rev 2.1 1993	Fluoride	0.058J	mg/L	0.10	02/12/21 19:04	
92521574005	EB-01(021021)					
EPA 6020B	Lead	0.00055J	mg/L	0.0050	02/18/21 20:21	



#### SUMMARY OF DETECTION

Project: YATES R6/AMA

Pace Project No.: 92521574

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521574006	YGWC-23S (020921)					
	Performed by	CUSTOME R			02/23/21 08:10	
	рН	5.61	Std. Units		02/23/21 08:10	
EPA 6020B	Antimony	0.00052J	mg/L	0.0030	02/18/21 20:38	
EPA 6020B	Barium	0.042	mg/L	0.010	02/18/21 20:38	
EPA 6020B	Beryllium	0.00015J	mg/L	0.0030	02/18/21 20:38	
EPA 6020B	Chromium	0.00086J	mg/L	0.010	02/18/21 20:38	
EPA 6020B	Lithium	0.0026J	mg/L	0.030	02/18/21 20:38	
EPA 6020B	Selenium	0.032	mg/L	0.010	02/18/21 20:38	
EPA 7470A	Mercury	0.00015J	mg/L	0.00050	02/16/21 11:06	
92521574007	YGWC-49(020921)					
	Performed by	CUSTOME			02/23/21 08:10	
	рН	к 5.79	Std. Units		02/23/21 08:10	
EPA 6020B	Barium	0.071	mg/L	0.010	02/18/21 20:44	
EPA 6020B	Beryllium	0.00013J	mg/L	0.0030	02/18/21 20:44	
EPA 6020B	Chromium	0.0020J	mg/L	0.010	02/18/21 20:44	
EPA 6020B	Lithium	0.0038J	mg/L	0.030	02/18/21 20:44	
EPA 6020B	Selenium	0.0079J	mg/L	0.010	02/18/21 20:44	
EPA 7470A	Mercury	0.00014J	mg/L	0.00050	02/16/21 11:09	
92521574008	YGWC-24SA (020921)					
	Performed by	CUSTOME R			02/23/21 08:10	
	рН	5.69	Std. Units		02/23/21 08:10	
EPA 6020B	Barium	0.031	mg/L	0.010	02/18/21 20:49	
EPA 6020B	Beryllium	0.00013J	mg/L	0.0030	02/18/21 20:49	
EPA 6020B	Chromium	0.0011J	mg/L	0.010	02/18/21 20:49	
EPA 6020B	Lead	0.00036J	mg/L	0.0050	02/18/21 20:49	
92521574009	DUP-02 (020921)					
EPA 6020B	Barium	0.030	mg/L	0.010	02/18/21 20:55	
EPA 6020B	Beryllium	0.00014J	mg/L	0.0030	02/18/21 20:55	
EPA 6020B	Chromium	0.0013J	mg/L	0.010	02/18/21 20:55	
EPA 6020B	Lead	0.00036J	mg/L	0.0050	02/18/21 20:55	
92521574010	YGWC-36A (021021)					
	Performed by	CUSTOME R			02/23/21 08:10	
	рН	6.31	Std. Units		02/23/21 08:10	
EPA 6020B	Antimony	0.028	mg/L	0.0030	02/18/21 21:01	
EPA 6020B	Arsenic	0.00088J	mg/L	0.0050	02/18/21 21:01	
EPA 6020B	Barium	0.035	mg/L	0.010	02/18/21 21:01	
EPA 6020B	Beryllium	0.000099J	mg/L	0.0030	02/18/21 21:01	
EPA 6020B	Chromium	0.00094J	mg/L	0.010	02/18/21 21:01	
EPA 6020B	Cobalt	0.00038J	mg/L	0.0050	02/18/21 21:01	
EPA 6020B	Lead	0.00051J	mg/L	0.0050	02/18/21 21:01	
EPA 6020B	Lithium	0.0011J	mg/L	0.030	02/18/21 21:01	



### Project: YATES R6/AMA

Pace Project No.: 92521574

Sample: YGWC-38 (020921)	Lab ID:	9252157400	1 Collecte	ed: 02/09/2	1 13:50	Received: 02/	10/21 17:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Service	es - Charlotte	e					
Performed by	CUSTOME R				1		02/23/21 08:10		
рН	5.04	Std. Units			1		02/23/21 08:10		
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: El	PA 3005A			
	Pace Ana	lytical Service	es - Peachtre	ee Corners, C	θA				
Antimony	0.00031J	mg/L	0.0030	0.00028	1	02/17/21 09:52	02/18/21 19:41	7440-36-0	
Arsenic	0.00098J	mg/L	0.0050	0.00078	1	02/17/21 09:52	02/18/21 19:41	7440-38-2	
Barium	0.016	mg/L	0.010	0.00071	1	02/17/21 09:52	02/18/21 19:41	7440-39-3	
Beryllium	0.0029J	mg/L	0.0030	0.000046	1	02/17/21 09:52	02/18/21 19:41	7440-41-7	
Cadmium	0.0014J	mg/L	0.0025	0.00012	1	02/17/21 09:52	02/18/21 19:41	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 09:52	02/18/21 19:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 09:52	02/18/21 19:41	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 09:52	02/18/21 19:41	7439-92-1	
Lithium	0.0067J	mg/L	0.030	0.00081	1	02/17/21 09:52	02/18/21 19:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 09:52	02/18/21 19:41	7439-98-7	
Selenium	0.073	mg/L	0.010	0.0016	1	02/17/21 09:52	02/18/21 19:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 09:52	02/18/21 19:41	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A			
	Pace Ana	lytical Service	es - Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 10:43	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Service	es - Asheville	;					
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 17:08	16984-48-8	M1



#### Project: YATES R6/AMA

Pace Project No.: 92521574

Sample: YGWC-41 (021021)	Lab ID:	9252157400	2 Collecte	ed: 02/10/21	1 13:25	Received: 02/	10/21 17:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Service	s - Charlotte	;					
Performed by	CUSTOME R				1		02/23/21 08:10		
рН	4.98	Std. Units			1		02/23/21 08:10		
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: El	PA 3005A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, G	βA				
Antimony	0.0014J	mg/L	0.0030	0.00028	1	02/17/21 09:52	02/18/21 20:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 09:52	02/18/21 20:03	7440-38-2	
Barium	0.017	mg/L	0.010	0.00071	1	02/17/21 09:52	02/18/21 20:03	7440-39-3	
Beryllium	0.0015J	mg/L	0.0030	0.000046	1	02/17/21 09:52	02/18/21 20:03	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 09:52	02/18/21 20:03	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 09:52	02/18/21 20:03	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 09:52	02/18/21 20:03	7440-48-4	
Lead	0.00020J	mg/L	0.0050	0.000036	1	02/17/21 09:52	02/18/21 20:03	7439-92-1	
Lithium	0.0021J	mg/L	0.030	0.00081	1	02/17/21 09:52	02/18/21 20:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 09:52	02/18/21 20:03	7439-98-7	
Selenium	0.033	mg/L	0.010	0.0016	1	02/17/21 09:52	02/18/21 20:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 09:52	02/18/21 20:03	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, G	<b>SA</b>				
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 10:57	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Service	s - Asheville						
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 17:51	16984-48-8	



#### Project: YATES R6/AMA

Pace Project No.: 92521574

Sample: YGWC-42 (021021)	Lab ID: 92521574003 Collected: 02/10/21 14:30 Received: 02/10/21 17:10 Matrix: Water								
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Service	s - Charlotte	9					
Performed by	CUSTOME R				1		02/23/21 08:10		
рН	5.65	Std. Units			1		02/23/21 08:10		
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: E	PA 3005A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, C	βA				
Antimony	0.00053J	mg/L	0.0030	0.00028	1	02/17/21 09:52	02/18/21 20:09	7440-36-0	
Arsenic	0.0016J	mg/L	0.0050	0.00078	1	02/17/21 09:52	02/18/21 20:09	7440-38-2	
Barium	0.031	mg/L	0.010	0.00071	1	02/17/21 09:52	02/18/21 20:09	7440-39-3	
Beryllium	0.000057J	mg/L	0.0030	0.000046	1	02/17/21 09:52	02/18/21 20:09	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 09:52	02/18/21 20:09	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 09:52	02/18/21 20:09	7440-47-3	
Cobalt	0.0019J	mg/L	0.0050	0.00038	1	02/17/21 09:52	02/18/21 20:09	7440-48-4	
Lead	0.000054J	mg/L	0.0050	0.000036	1	02/17/21 09:52	02/18/21 20:09	7439-92-1	
Lithium	0.058	mg/L	0.030	0.00081	1	02/17/21 09:52	02/18/21 20:09	7439-93-2	
Molybdenum	0.00094J	mg/L	0.010	0.00069	1	02/17/21 09:52	02/18/21 20:09	7439-98-7	
Selenium	0.043	mg/L	0.010	0.0016	1	02/17/21 09:52	02/18/21 20:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 09:52	02/18/21 20:09	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 10:59	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Service	s - Asheville	•					
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 18:49	16984-48-8	



#### Project: YATES R6/AMA

Pace Project No.: 92521574

Sample: YGWC-43 (020921)	Lab ID:	9252157400	4 Collecte	ed: 02/09/21	5:30 Received: 02/10/21 17:10 Matrix: Water				
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Service	s - Charlotte	9					
Performed by	CUSTOME R				1		02/23/21 08:10		
рН	5.86	Std. Units			1		02/23/21 08:10		
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: E	PA 3005A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, C	βA				
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 09:52	02/18/21 20:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 09:52	02/18/21 20:15	7440-38-2	
Barium	0.041	mg/L	0.010	0.00071	1	02/17/21 09:52	02/18/21 20:15	7440-39-3	
Beryllium	0.00053J	mg/L	0.0030	0.000046	1	02/17/21 09:52	02/18/21 20:15	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 09:52	02/18/21 20:15	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 09:52	02/18/21 20:15	7440-47-3	
Cobalt	0.0017J	mg/L	0.0050	0.00038	1	02/17/21 09:52	02/18/21 20:15	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 09:52	02/18/21 20:15	7439-92-1	
Lithium	0.024J	mg/L	0.030	0.00081	1	02/17/21 09:52	02/18/21 20:15	7439-93-2	
Molybdenum	0.0012J	mg/L	0.010	0.00069	1	02/17/21 09:52	02/18/21 20:15	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 09:52	02/18/21 20:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 09:52	02/18/21 20:15	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, C	<b>A</b>				
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:02	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Service	s - Asheville						
Fluoride	0.058J	mg/L	0.10	0.050	1		02/12/21 19:04	16984-48-8	



#### Project: YATES R6/AMA

Pace Project No.: 92521574

Sample: EB-01(021021)	Lab ID:	92521574005	Collecte	ed: 02/10/2	1 13:30	13:30 Received: 02/10/21 17:10 Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Pre	paration Met	thod: EF	PA 3005A				
	Pace Anal	lytical Services	- Peachtre	e Corners, C	GΑ					
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 09:52	02/18/21 20:21	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 09:52	02/18/21 20:21	7440-38-2		
Barium	ND	mg/L	0.010	0.00071	1	02/17/21 09:52	02/18/21 20:21	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 09:52	02/18/21 20:21	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 09:52	02/18/21 20:21	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 09:52	02/18/21 20:21	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 09:52	02/18/21 20:21	7440-48-4		
Lead	0.00055J	mg/L	0.0050	0.000036	1	02/17/21 09:52	02/18/21 20:21	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 09:52	02/18/21 20:21	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 09:52	02/18/21 20:21	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 09:52	02/18/21 20:21	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 09:52	02/18/21 20:21	7440-28-0		
7470 Mercury	Analytical	Method: EPA 7	470A Pre	paration Met	hod: EF	PA 7470A				
	Pace Anal	lytical Services	- Peachtre	e Corners, C	GΑ					
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:04	7439-97-6		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993						
-	Pace Anal	lytical Services	- Asheville	•						
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 19:18	16984-48-8		



#### Project: YATES R6/AMA

Pace Project No.: 92521574

Sample: YGWC-23S (020921)	Lab ID: 92521574006 Collected: 02/09/21 11:10 Received: 02/10/21 17:10 Matrix: Water									
			Report							
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
Field Data	Analytical	Method:								
	Pace Ana	lytical Service	s - Charlotte	;						
Performed by	CUSTOME R				1		02/23/21 08:10			
рН	5.61	Std. Units			1		02/23/21 08:10			
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: E	PA 3005A				
	Pace Ana	lytical Service	s - Peachtre	e Corners, G	<b>S</b> A					
Antimony	0.00052J	mg/L	0.0030	0.00028	1	02/17/21 09:52	02/18/21 20:38	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 09:52	02/18/21 20:38	7440-38-2		
Barium	0.042	mg/L	0.010	0.00071	1	02/17/21 09:52	02/18/21 20:38	7440-39-3		
Beryllium	0.00015J	mg/L	0.0030	0.000046	1	02/17/21 09:52	02/18/21 20:38	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 09:52	02/18/21 20:38	7440-43-9		
Chromium	0.00086J	mg/L	0.010	0.00055	1	02/17/21 09:52	02/18/21 20:38	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 09:52	02/18/21 20:38	7440-48-4		
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 09:52	02/18/21 20:38	7439-92-1		
Lithium	0.0026J	mg/L	0.030	0.00081	1	02/17/21 09:52	02/18/21 20:38	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 09:52	02/18/21 20:38	7439-98-7		
Selenium	0.032	mg/L	0.010	0.0016	1	02/17/21 09:52	02/18/21 20:38	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 09:52	02/18/21 20:38	7440-28-0		
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: E	PA 7470A				
	Pace Ana	lytical Service	s - Peachtre	e Corners, G	<b>S</b> A					
Mercury	0.00015J	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:06	7439-97-6		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993						
	Pace Ana	lytical Service	s - Asheville							
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 19:33	16984-48-8		



#### Project: YATES R6/AMA

Pace Project No.: 92521574

Sample: YGWC-49(020921)	Lab ID: 92521574007 Collected: 02/09/21 15:15 Received: 02/10/21 17:10 Matrix: Water								
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Service	s - Charlotte	9					
Performed by	CUSTOME R				1		02/23/21 08:10		
рН	5.79	Std. Units			1		02/23/21 08:10		
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: E	PA 3005A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, C	βA				
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 09:52	02/18/21 20:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 09:52	02/18/21 20:44	7440-38-2	
Barium	0.071	mg/L	0.010	0.00071	1	02/17/21 09:52	02/18/21 20:44	7440-39-3	
Beryllium	0.00013J	mg/L	0.0030	0.000046	1	02/17/21 09:52	02/18/21 20:44	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 09:52	02/18/21 20:44	7440-43-9	
Chromium	0.0020J	mg/L	0.010	0.00055	1	02/17/21 09:52	02/18/21 20:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 09:52	02/18/21 20:44	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 09:52	02/18/21 20:44	7439-92-1	
Lithium	0.0038J	mg/L	0.030	0.00081	1	02/17/21 09:52	02/18/21 20:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 09:52	02/18/21 20:44	7439-98-7	
Selenium	0.0079J	mg/L	0.010	0.0016	1	02/17/21 09:52	02/18/21 20:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 09:52	02/18/21 20:44	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, C	<b>SA</b>				
Mercury	0.00014J	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:09	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Service	s - Asheville	•					
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 19:47	16984-48-8	



#### Project: YATES R6/AMA

Pace Project No.: 92521574

Sample: YGWC-24SA (020921)	Lab ID: 92521574008 Collected: 02/09/21 16:10 Received: 02/10/21 17:10 Matrix: Water									
			Report							
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
Field Data	Analytical	Method:								
	Pace Ana	lytical Service	s - Charlotte	e						
Performed by	CUSTOME R				1		02/23/21 08:10			
рН	5.69	Std. Units			1		02/23/21 08:10			
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
	Pace Ana	lytical Service	s - Peachtre	e Corners, C	<b>A</b>					
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 09:52	02/18/21 20:49	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 09:52	02/18/21 20:49	7440-38-2		
Barium	0.031	mg/L	0.010	0.00071	1	02/17/21 09:52	02/18/21 20:49	7440-39-3		
Beryllium	0.00013J	mg/L	0.0030	0.000046	1	02/17/21 09:52	02/18/21 20:49	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 09:52	02/18/21 20:49	7440-43-9		
Chromium	0.0011J	mg/L	0.010	0.00055	1	02/17/21 09:52	02/18/21 20:49	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 09:52	02/18/21 20:49	7440-48-4		
Lead	0.00036J	mg/L	0.0050	0.000036	1	02/17/21 09:52	02/18/21 20:49	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 09:52	02/18/21 20:49	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 09:52	02/18/21 20:49	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 09:52	02/18/21 20:49	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 09:52	02/18/21 20:49	7440-28-0		
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: E	PA 7470A				
	Pace Ana	lytical Service	s - Peachtre	e Corners, G	βA					
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:11	7439-97-6		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993						
	Pace Ana	lytical Service	s - Asheville	;						
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 20:01	16984-48-8		



#### Project: YATES R6/AMA

Pace Project No.: 92521574

Sample: DUP-02 (020921)	Lab ID:	92521574009	Collecte	ed: 02/09/2	00 Received: 02/10/21 17:10 Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Anal	ytical Services	- Peachtre	ee Corners, C	GΑ				
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 09:52	02/18/21 20:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 09:52	02/18/21 20:55	7440-38-2	
Barium	0.030	mg/L	0.010	0.00071	1	02/17/21 09:52	02/18/21 20:55	7440-39-3	
Beryllium	0.00014J	mg/L	0.0030	0.000046	1	02/17/21 09:52	02/18/21 20:55	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 09:52	02/18/21 20:55	7440-43-9	
Chromium	0.0013J	mg/L	0.010	0.00055	1	02/17/21 09:52	02/18/21 20:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 09:52	02/18/21 20:55	7440-48-4	
Lead	0.00036J	mg/L	0.0050	0.000036	1	02/17/21 09:52	02/18/21 20:55	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 09:52	02/18/21 20:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 09:52	02/18/21 20:55	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 09:52	02/18/21 20:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 09:52	02/18/21 20:55	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	ЗA				
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:18	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
	Pace Anal	ytical Services	- Asheville	)					
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 20:45	16984-48-8	



#### Project: YATES R6/AMA

Pace Project No.: 92521574

Sample: YGWC-36A (021021)	Lab ID: 92521574010 Collected: 02/10/21 14:30 Received: 02/10/21 17:10 Matrix: Water									
			Report							
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
Field Data	Analytical	Method:								
	Pace Ana	lytical Service	s - Charlotte	9						
Performed by	CUSTOME R				1		02/23/21 08:10			
рН	6.31	Std. Units			1		02/23/21 08:10			
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: E	PA 3005A				
	Pace Ana	lytical Service	s - Peachtre	e Corners, C	βA					
Antimony	0.028	mg/L	0.0030	0.00028	1	02/17/21 09:52	02/18/21 21:01	7440-36-0		
Arsenic	0.00088J	mg/L	0.0050	0.00078	1	02/17/21 09:52	02/18/21 21:01	7440-38-2		
Barium	0.035	mg/L	0.010	0.00071	1	02/17/21 09:52	02/18/21 21:01	7440-39-3		
Beryllium	0.000099J	mg/L	0.0030	0.000046	1	02/17/21 09:52	02/18/21 21:01	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 09:52	02/18/21 21:01	7440-43-9		
Chromium	0.00094J	mg/L	0.010	0.00055	1	02/17/21 09:52	02/18/21 21:01	7440-47-3		
Cobalt	0.00038J	mg/L	0.0050	0.00038	1	02/17/21 09:52	02/18/21 21:01	7440-48-4		
Lead	0.00051J	mg/L	0.0050	0.000036	1	02/17/21 09:52	02/18/21 21:01	7439-92-1		
Lithium	0.0011J	mg/L	0.030	0.00081	1	02/17/21 09:52	02/18/21 21:01	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 09:52	02/18/21 21:01	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 09:52	02/18/21 21:01	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 09:52	02/18/21 21:01	7440-28-0		
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A				
	Pace Ana	lytical Service	s - Peachtre	e Corners, C	βA					
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:21	7439-97-6		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993						
	Pace Ana	lytical Service	s - Asheville	;						
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 21:57	16984-48-8		


Project:	YATES	S R6/AMA					
Pace Project No.:	92521	574					
QC Batch:	6006	02	Analysis Meth	od:	EPA 6020B		
QC Batch Method:	EPA	3005A	Analysis Desc	ription:	6020 MET		
			Laboratory:		Pace Analytical Se	rvices - Peachtree	Corners, GA
Associated Lab Sar	mples:	92521574001, 92521574002, 92521574008, 92521574009,	, 92521574003, 92 , 92521574010	521574004	92521574005, 925	521574006, 925215	74007,
METHOD BLANK:	316549	98	Matrix: \	Water			
Associated Lab Sar	mples:	92521574001, 92521574002, 92521574009, 92521574008, 92521574009,	, 92521574003, 92 , 92521574010	521574004	92521574005, 925	521574006, 925215	74007,
			Blank	Reporting			
Parar	neter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Antimony		mg/L	ND	0.00	30 0.00028	02/18/21 19:29	
Arsenic		mg/L	ND	0.00	50 0.00078	02/18/21 19:29	
Barium		mg/L	ND	0.0	0.00071	02/18/21 19:29	
Beryllium		mg/L	ND	0.00	0.000046	02/18/21 19:29	
Cadmium		mg/L	ND	0.00	0.00012	02/18/21 19:29	
Chromium		mg/L	ND	0.0	0.00055	02/18/21 19:29	
Cobalt		mg/L	ND	0.00	0.00038	02/18/21 19:29	
Lead		mg/L	ND	0.00	50 0.000036	02/18/21 19:29	
Lithium		mg/L	ND	0.0	0.00081	02/18/21 19:29	
Molybdenum		mg/L	ND	0.0	0.00069	02/18/21 19:29	
Selenium		mg/L	ND	0.0	0.0016	02/18/21 19:29	
Thallium		mg/L	ND	0.00	0.00014	02/18/21 19:29	

### LABORATORY CONTROL SAMPLE: 3165499

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Antimony	mg/L	0.1	0.10	101	80-120	
Arsenic	mg/L	0.1	0.093	93	80-120	
Barium	mg/L	0.1	0.094	94	80-120	
Beryllium	mg/L	0.1	0.092	92	80-120	
Cadmium	mg/L	0.1	0.091	91	80-120	
Chromium	mg/L	0.1	0.093	93	80-120	
Cobalt	mg/L	0.1	0.093	93	80-120	
Lead	mg/L	0.1	0.094	94	80-120	
Lithium	mg/L	0.1	0.093	93	80-120	
Molybdenum	mg/L	0.1	0.093	93	80-120	
Selenium	mg/L	0.1	0.090	90	80-120	
Thallium	mg/L	0.1	0.091	91	80-120	

MATRIX SPIKE & MATRIX SPI	KE DUPL	ICATE: 3165	500		3165501							
			MS	MSD								
		92521574001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Antimony	mg/L	0.00031J	0.1	0.1	0.11	0.10	109	102	75-125	6	20	
Arsenic	mg/L	0.00098J	0.1	0.1	0.10	0.10	101	100	75-125	1	20	
Barium	mg/L	0.016	0.1	0.1	0.11	0.11	99	94	75-125	4	20	

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

### **REPORT OF LABORATORY ANALYSIS**

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Project: YATES R6/AMA Pace Project No.: 92521574

MATRIX SPIKE & MATRIX SP	IKE DUPI	LICATE: 3165	500		3165501							
Parameter	Units	92521574001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	mg/L		0.1	0.1	0.092	0.089	89	86	75-125	3	20	
Cadmium	mg/L	0.0014J	0.1	0.1	0.096	0.096	95	95	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.093	0.091	93	91	75-125	2	20	
Lithium	mg/L	0.0067J	0.1	0.1	0.098	0.094	91	87	75-125	4	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	3	20	
Selenium	mg/L	0.073	0.1	0.1	0.17	0.17	94	94	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.092	0.091	92	91	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	6 R6/AMA											
Pace Project No.:	92521	574											
QC Batch:	6000	20		Analy	sis Metho	od:	EPA 7470A	۹					
QC Batch Method:	EPA	7470A		Analy	sis Desci	ription:	7470 Merc	ury					
				Labo	ratory:		Pace Analy	tical Servi	ces - Peacl	ntree Corne	rs, GA		
Associated Lab Sa	mples:	925215740 925215740	001, 9252157400 008, 9252157400	12, 9252157 19, 9252157	4003, 929 4010	521574004,	, 925215740	005, 92521	1574006, 92	2521574007	7,		
METHOD BLANK:	31632	26			Matrix: V	Vater							
Associated Lab Sa	mples:	925215740 925215740	)01, 9252157400 )08, 9252157400	2, 9252157 9, 9252157	4003, 92: 4010	521574004,	, 925215740	005, 92521	1574006, 92	2521574007	7,		
				Blan	ık	Reporting							
Para	meter		Units	Resu	ult	Limit	ME	DL	Analyzeo	d Qi	ualifiers		
Mercury			mg/L		ND	0.0005	50 0.0	000078	02/16/21 10	):21			
LABORATORY CO	NTROL	SAMPLE:	3163227										
				Spike	L	CS	LCS	%	Rec				
Para	meter		Units	Conc.	Re	esult	% Rec	Lin	nits	Qualifiers			
Mercury			mg/L	0.002	5	0.0024	ę	96	80-120				
MATRIX SPIKE & M	MATRIX	SPIKE DUP	LICATE: 3163	228		316322	9						
				MS	MSD								
_			92521574001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	r	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Mercury		mg/L	ND	0.0025	0.0025	0.0024	0.0025	96	5 10 <sup>.</sup>	1 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	6 R6/AMA											
Pace Project No.:	92521	574											
QC Batch:	5996	53		Analy	sis Metho	d:	EPA 300.0	Rev 2.1 199	93				
QC Batch Method:	EPA	300.0 Rev 2	.1 1993	Analy	/sis Descri	ption:	300.0 IC Ar	nions					
				Labo	ratory:		Pace Analy	tical Service	es - Ashevi	lle			
Associated Lab Sa	mples:	925215740 925215740	001, 9252157400 008	)2, 9252157	4003, 925	21574004,	925215740	05, 925215	74006, 92	521574007	ζ,		
METHOD BLANK:	31612	18			Matrix: W	ater							
Associated Lab Sa	mples:	925215740 925215740	001, 9252157400 008	02, 9252157	4003, 925	21574004,	925215740	05, 925215	74006, 92	521574007	7,		
				Blar	nk	Reporting							
Para	meter		Units	Res	ult	Limit	MD	L	Analyzed	Qu	Jalifiers		
Fluoride			mg/L		ND	0.1	0	0.050 02	2/12/21 12:	49			
LABORATORY CO	NTROL	SAMPLE:	3161219										
Para	meter		Units	Spike Conc.	LC Res	:S sult	LCS % Rec	% Re Limi	ec ts (	Qualifiers			
Fluoride			mg/L	2.	.5	2.7	10	6 9	90-110		_		
MATRIX SPIKE & M	MATRIX	SPIKE DUP	LICATE: 3161	220		3161221							
			00504 470004	MS	MSD	MC	MCD	MO	MOD	0/ D = =		Mari	
Paramete	r	Units	92521478001 Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	% Rec Limits	RPD	RPD	Qual
Fluoride		mg/L	ND	2.5	2.5	2.8	2.7	109	104	90-110	5	10	
MATRIX SPIKE & M	MATRIX	SPIKE DUP	LICATE: 3161	241		3161242	2						
				MS	MSD								
Paramete	r	Units	92521574001 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride		ma/L	ND	2.5	2.5	3.7	3.6	146	142	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 R6/AMA											
Pace Project No.:	92521574											
QC Batch:	599663		Analy	sis Metho	d:	EPA 300.0	Rev 2.1 19	93				
QC Batch Method:	EPA 300.0 Rev 2	2.1 1993	Analy	ysis Descrij	ption:	300.0 IC Ar	ions					
			Labo	ratory:		Pace Analy	tical Servic	es - Ashevil	le			
Associated Lab Sar	nples: 92521574	009, 9252157401	0									
METHOD BLANK:	3161251			Matrix: W	ater							
Associated Lab Sar	nples: 92521574	009, 9252157401	0									
			Blai	nk l	Reporting							
Parar	neter	Units	Res	ult	Limit	MD	L	Analyzed	Qu	ualifiers		
Fluoride		mg/L		ND	0.1	10	0.050 02	2/12/21 20:	16			
LABORATORY CO	NTROL SAMPLE:	3161252										
			Spike	LC	S	LCS	% R	ec				
Parar	neter	Units	Conc.	Res	sult	% Rec	Lim	its C	Qualifiers	_		
Fluoride		mg/L	2	.5	2.6	10	5	90-110				
MATRIX SPIKE & M	IATRIX SPIKE DUF	PLICATE: 3161	253		3161254	4						
			MS	MSD								
		92521574009	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	<u> </u>
Paramete	r Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD		Qual
Fluoride	mg/L	. ND	2.5	2.5	2.7	2.7	109	108	90-110	1	10	
MATRIX SPIKE & N	IATRIX SPIKE DUF	PLICATE: 3161	255		316125	6						
			MS	MSD								
		92521581005	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	r Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Fluoride	mg/L	. ND	2.5	2.5	2.5	2.7	100	108	90-110	8	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: YATES R6/AMA

Pace Project No.: 92521574

#### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

**RPD** - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

#### ANALYTE QUALIFIERS

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



# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES R6/AMA Pace Project No.: 92521574

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521574001	YGWC-38 (020921)				
92521574002	YGWC-41 (021021)				
92521574003	YGWC-42 (021021)				
92521574004	YGWC-43 (020921)				
92521574006	YGWC-23S (020921)				
92521574007	YGWC-49(020921)				
92521574008	YGWC-24SA (020921)				
92521574010	YGWC-36A (021021)				
92521574001	YGWC-38 (020921)	EPA 3005A	600602	EPA 6020B	600714
92521574002	YGWC-41 (021021)	EPA 3005A	600602	EPA 6020B	600714
92521574003	YGWC-42 (021021)	EPA 3005A	600602	EPA 6020B	600714
92521574004	YGWC-43 (020921)	EPA 3005A	600602	EPA 6020B	600714
92521574005	EB-01(021021)	EPA 3005A	600602	EPA 6020B	600714
92521574006	YGWC-23S (020921)	EPA 3005A	600602	EPA 6020B	600714
92521574007	YGWC-49(020921)	EPA 3005A	600602	EPA 6020B	600714
92521574008	YGWC-24SA (020921)	EPA 3005A	600602	EPA 6020B	600714
92521574009	DUP-02 (020921)	EPA 3005A	600602	EPA 6020B	600714
92521574010	YGWC-36A (021021)	EPA 3005A	600602	EPA 6020B	600714
92521574001	YGWC-38 (020921)	EPA 7470A	600020	EPA 7470A	600225
92521574002	YGWC-41 (021021)	EPA 7470A	600020	EPA 7470A	600225
92521574003	YGWC-42 (021021)	EPA 7470A	600020	EPA 7470A	600225
92521574004	YGWC-43 (020921)	EPA 7470A	600020	EPA 7470A	600225
92521574005	EB-01(021021)	EPA 7470A	600020	EPA 7470A	600225
92521574006	YGWC-23S (020921)	EPA 7470A	600020	EPA 7470A	600225
92521574007	YGWC-49(020921)	EPA 7470A	600020	EPA 7470A	600225
92521574008	YGWC-24SA (020921)	EPA 7470A	600020	EPA 7470A	600225
92521574009	DUP-02 (020921)	EPA 7470A	600020	EPA 7470A	600225
92521574010	YGWC-36A (021021)	EPA 7470A	600020	EPA 7470A	600225
92521574001	YGWC-38 (020921)	EPA 300.0 Rev 2.1 1993	599653		
92521574002	YGWC-41 (021021)	EPA 300.0 Rev 2.1 1993	599653		
92521574003	YGWC-42 (021021)	EPA 300.0 Rev 2.1 1993	599653		
92521574004	YGWC-43 (020921)	EPA 300.0 Rev 2.1 1993	599653		
92521574005	EB-01(021021)	EPA 300.0 Rev 2.1 1993	599653		
92521574006	YGWC-23S (020921)	EPA 300.0 Rev 2.1 1993	599653		
92521574007	YGWC-49(020921)	EPA 300.0 Rev 2.1 1993	599653		
92521574008	YGWC-24SA (020921)	EPA 300.0 Rev 2.1 1993	599653		
92521574009	DUP-02 (020921)	EPA 300.0 Rev 2.1 1993	599663		
92521574010	YGWC-36A (021021)	EPA 300.0 Rev 2.1 1993	599663		

	Docume	nt Name:	· .	Document Revised: October 28,	2020
Pace Analytical*	Sample Condition L	Jpon Receipt(S	CUR)	Page 1 of 2	
A woor built total	Docum F-CAR-CS-	ent No.: 033.8ev.07		Pace Carolinas Quality Offic	e
		vvv			
aboratory receiving samples:	· · · · · · · ·		<u> </u>	· · · · · · · · · · · · · · · · · · ·	
Asheville Eden Greenwood	Huntersville	Raleigi	י∐ M	echanicsville Atlant	Kernersville
Sample Condition Client Name:	0	P	roject #:	WO#:92521	574
Courier: Fed Ex UU	PS USPS		int		
ustody Seal Present? Yes 4No	Seals Intact? 👘 🗍 Ye	IS _ 🔲 NO		92521574	2/10/21
ан <u>—</u> Эн		~		ndel under L'elsvii rystailinê gaut	2.103
acking Material: Bubble Wrap [	Bubble Bags	one 🗌 Ot	her	Biological Tissue Fr	ozen?
hermometer:			ue 🔲	None	A
	Type of Ice:		_		
cooler Temp: 24 Correction Add/Subtra	Factor: act (°C) <u>0-0</u>		Tem	np should be above freezing to 6°C Samples out of temp criteria. Sample	s on ice, cooling process
ISDA Regulated Soil ( N/A, water sample) id samples originate in a quarantine zone within th Yes No	e United States: CA, NY, c	or SC (check ma	ps)? Did incl	samples originate from a foreign source uding Hawaii and Puerto Rico)?  Yes	e (internationally,
	······································			Comments/Discrepanc	y:
Chain of Custody Present?	Yes IN	o 🗍 N/A	1.		
Samples Arrived within Hold Time?		loN/A	2.		<b></b>
Short Hold Time Analysis (<72 hr.)?	Yes 🖂	16 <u> </u>	3.	<u> </u>	
Rush Turn Around Time Requested?			4.		
Sufficient Volume?		Io 🗍N/A	s.		
Correct Containers Used?			6.		
-Pace Containers Used?	Pres DM	io 🗍N/A	<u> </u>		
Containers Intact?	Fires Th	ta ⊡N/A	7.	· .	
Dissolved analysis: Samples Field Filtered?			8.		
Sample Labels Match COC?	Gres Dr		9.		
-Includes Date/Time/ID/Analysis Matrix:	$\sim$				4
Headspace in VOA Vials (>5-6mm)?	Tyes Fit		10.		
Trip Blank Present?	Yes I	No ZN/A	11.		
Trin Blank Custody Seals Present?					
COMMENTS/SAMPLE DISCREPANCY				field Data Rec	Įuíred? ∐Yes ∐No
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	·····		Lot ID	of split containers:	-
CLIENT NOTIFICATION/RESOLUTION					
	· · · · · · · · · · · · · · · · · · ·				
Person contacted:		Date/T	ime:		N
Project Manager SCURF Review:				Date:	<u></u>
Project Manager SRF Review:				Date:	
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		YANC-23S	FR-01/12/1021)	YGWC43	ST ACMC-15	A YOWCAN		Vennoe	TEM # One Character per boz. (A-Z, 0-97,- ) Seempte lets must be unique			present Due Date:		nion, GA 30114	Inpany: Georgia Power Inner: 4077 Brites Luit Ava	quired Client Information:	And Antipation
	Kine Klanewer	2.1.21 11.16	Star Wes	WT 2.7.1 1530	WT 2102 H30	WT 2-7-11/222	Wr 2.11/20	WT 240-04-54	MATRIX CODE (see veid cod SAMPLE TYPE (G-GRAB C DATRIX CODE (see veid cod	et to hit)	le tellene et	Project Name: Vates Rs	Purchase Order #:	With Io:	Report To: Becky Sizever	Required Project information:	
AR MANE AND SHOULTUPE	210/11/212	4//							SAMPLE TEMP AT COLLECTIC # OF CONTAINERS Unpreserved H2SO4 HNO3 HCI NaOH	LECTED	Pace Profile #: 10840	Pace Project Manager:	Page Quote:	Company Name:	Attention:	Section C hwoles information:	CHAIN-OF-CUSTODY / A The Chain-of-Custody is a LEGAL DOC
Puptiewicz	le fint dip	8 8 7 7		× ^	< × × × × ×	xxx			Na28203 Methanol Other Analyage Teats App IV Metals Fluoride RAD 9315/9320			hevin herring@paceiabs.com,					<b>nalytical Request Docu</b> XMENT. Al relevant fields must be
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						ADDITIONAL COMPARING A	****** YGWC-361	xameson DUP-GA.	XAMCZASA YGWC-1	YEWCES	YCHA 34	YGRIFADS .	Yomr Ist-	YOWA-106	KSWITCHTO.	Venno YE WIR - SD-	KOWA	XOWA-I	SAMPLE ID One Character per box. (A-Z, 0+37, Sample Ids must be unique			d Due Date:	(770)334-6526 Fax		1070 Bridge Mil Ave	Georgia Power	
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5.005° (U U				_		4.			7										Residual Chlorine (Y/N)								
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February 25, 2021

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

RE: Project: YATES AMA Pace Project No.: 92521581

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 10, 2021 and February 12, 2021. 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,

Kardoniy

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR Lauren Coker, Georgia Pwer Geoffrey Gay, ARCADIS - Atlanta Kristen Jurinko Kelley Sharpe, ARCADIS - Atlanta Alex Simpson, Arcadis Samantha Thomas Maribel Vital





Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

#### CERTIFICATIONS

Project: YATES AMA Pace Project No.: 92521581

#### Pace Analytical Services Charlotte

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

#### Pace Analytical Services Asheville

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

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

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

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



Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

### SAMPLE SUMMARY

Project: YATES AMA Pace Project No.: 92521581

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92521581001	YGWA-5D (020821)	Water	02/08/21 16:45	02/10/21 17:10
92521581002	DUP-01(020821)	Water	02/08/21 00:00	02/10/21 17:10
92521581003	YGWA-5I (020821)	Water	02/08/21 16:20	02/10/21 17:10
92521581004	YGWA-39 (021021)	Water	02/10/21 09:30	02/10/21 17:10
92521581005	YGWA-40 (021021)	Water	02/10/21 10:50	02/10/21 17:10
92521581006	FB-01(021021)	Water	02/10/21 11:05	02/10/21 17:10
92521581007	YGWA-20S (020921)	Water	02/09/21 16:50	02/10/21 17:10
92521581008	YGWA-4I(020921)	Water	02/09/21 09:50	02/10/21 17:10
92521581009	YGWA-17S(020921)	Water	02/09/21 11:15	02/10/21 17:10
92521581010	YGWA-18S(020921)	Water	02/09/21 13:25	02/10/21 17:10
92521581011	YGWA-18I(020921)	Water	02/09/21 14:00	02/10/21 17:10
92521581012	YGWA-21I(020921)	Water	02/09/21 16:10	02/10/21 17:10
92521581013	YGWA-3I(021021)	Water	02/10/21 16:40	02/11/21 13:03
92521581014	YGWA-3D(021021)	Water	02/10/21 17:25	02/11/21 13:03
92521581015	YGWA-30I(021121)	Water	02/11/21 09:50	02/11/21 13:03
92521581016	FB-01(021121)	Water	02/11/21 10:00	02/11/21 13:03
92521581017	EB-01(021121)	Water	02/11/21 12:05	02/11/21 13:03
92521578002	YGWA-14S (021021)	Water	02/10/21 08:50	02/10/21 17:10
92521578010	YGWA-1I (021221)	Water	02/12/21 13:20	02/12/21 17:10
92521578011	YGWA-1D (021221)	Water	02/12/21 11:55	02/12/21 17:10
92521578001	EB-02 (021021)	Water	02/10/21 11:30	02/10/21 17:10
92521578003	DUP-1 (021021)	Water	02/10/21 00:00	02/10/21 17:10



# SAMPLE ANALYTE COUNT

Project: YATES AMA Pace Project No.: 92521581

Lab ID	D         Sample ID           1581001         YGWA-5D (020821)           1581002         DUP-01(020821)           1581003         YGWA-5I (020821)           1581004         YGWA-39 (021021)           1581005         YGWA-40 (021021)           1581006         FB-01(021021)           1581007         YGWA-20S (020921)           1581008         YGWA-44(020921)           1581009         YGWA-17S(020921)           1581010         YGWA-18S(020921)	Method	Analysts	Analytes Reported
92521581001	YGWA-5D (020821)	EPA 6020B	 CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581002	DUP-01(020821)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
2521581003	YGWA-5I (020821)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581004	YGWA-39 (021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581005	YGWA-40 (021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581006	FB-01(021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
2521581007	YGWA-20S (020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
2521581008	YGWA-4I(020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
<del>)</del> 2521581009	YGWA-17S(020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581010	YGWA-18S(020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
2521581011	YGWA-18I(020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581012	YGWA-21I(020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581013	YGWA-3I(021021)	EPA 6020B	CW1	12



## SAMPLE ANALYTE COUNT

abe ID         Sample ID         Method         Analytes Reported           2521581014         YGWA-3D(021021)         EPA 7470A         VB         1           2521581014         YGWA-3D(021021)         EPA 6020B         CW1         12           2521581014         YGWA-3D(021021)         EPA 6020B         CW1         12           2521581015         YGWA-3D(021121)         EPA 6020B         CW1         12           2521581015         YGWA-30(021121)         EPA 6020B         CW1         12           2521581015         YGWA-30(021121)         EPA 300.0 Rev 2.1 1993         CDC         1           2521581016         FB-01(021121)         EPA 6020B         CW1         12           2521581017         EB-01(021121)         EPA 300.0 Rev 2.1 1993         CDC         1           2521581017         EB-01(021121)         EPA 300.0 Rev 2.1 1993         CDC         1           2521581017         EB-01(021121)         EPA 300.0 Rev 2.1 1993         CDC         1           2521581017         EB-01(021121)         EPA 300.0 Rev 2.1 1993         CDC         1           2521578002         YGWA-14S (021021)         EPA 400.0 Rev 2.1 1993         CDC         1           2521578001         YGWA-11 (021221)	Project:	YATES AMA			
Analytes         Analytes         Analytes         Analytes         Analytes         Analytes         Analytes         Analytes         Analytes         Analytes         Analytes         Analytes         Reported           2521581014         YGWA-3D(021021)         EPA 300.0 Rev 2.1 1993         CDC         1           2521581015         YGWA-3D(021021)         EPA 6020B         CW11         12           2521581015         YGWA-3D(021121)         EPA 6020B         CW1         12           2521581015         YGWA-3D(021121)         EPA 7470A         VB         1           2521581015         YGWA-3D(021121)         EPA 6020B         CW1         12           2521581016         FB-01(021121)         EPA 6020B         CW1         12           2521581017         EB-01(021121)         EPA 300.0 Rev 2.1 1993         CDC         1           2521581017         EB-01(021121)         EPA 300.0 Rev 2.1 1993         CDC         1           2521581017         EB-01(021121)         EPA 300.0 Rev 2.1 1993         CDC         1           2521581017         EB-01(021121)         EPA 300.0 Rev 2.1 1993         CDC         1           2521578002         YGWA-14S (021021)         EPA 300.0 Rev 2.1 1993         CDC         1 </th <th>Pace Project No</th> <th>o.: 92521581</th> <th></th> <th></th> <th></th>	Pace Project No	o.: 92521581			
EPA 7470A         VB         1           2521581014         YGWA-3D(021021)         EPA 300.0 Rev 2.1 1993         CDC         1           2521581014         YGWA-3D(021021)         EPA 6020B         CW1         12           2521581015         YGWA-30(021121)         EPA 6020B         CW1         12           2521581015         YGWA-30(021121)         EPA 6020B         CW1         12           2521581016         FB-01(021121)         EPA 300.0 Rev 2.1 1993         CDC         1           2521581016         FB-01(021121)         EPA 300.0 Rev 2.1 1993         CDC         1           2521581017         EB-01(021121)         EPA 6020B         CW1         12           2521581017         EB-01(021121)         EPA 6020B         CW1         12           2521581017         EB-01(021121)         EPA 6020B         CW1         12           2521581017         EB-01(021121)         EPA 6020B         CW1         12           2521581017         EB-01(021121)         EPA 6020B         CW1         12           2521578002         YGWA-14S (021021)         EPA 6020B         CW1         12           2521578010         YGWA-11 (021221)         EPA 6020B         CW1         12	Lab ID	Sample ID	Method	Analysts	Analytes Reported
2521581014         YGWA-3D(021021)         EPA 300.0 Rev 2.1 1993         CDC         1           2521581014         YGWA-3D(021021)         EPA 6020B         CW1         12           2521581015         YGWA-30l(021121)         EPA 300.0 Rev 2.1 1993         CDC         11           2521581015         YGWA-30l(021121)         EPA 7470A         VB         11           2521581015         YGWA-30l(021121)         EPA 6020B         CW1         12           2521581016         FB-01(021121)         EPA 6020B         CW1         12           2521581017         EB-01(021121)         EPA 6020B         CW1         12           2521581017         EB-01(021121)         EPA 6020B         CW1         12           2521581017         EB-01(021121)         EPA 300.0 Rev 2.1 1993         CDC         1           2521578002         YGWA-145 (021021)         EPA 6020B         CW1         12           2521578001         YGWA-11 (021221)         EPA 300.0 Rev 2.1 1993         CDC         1           2521578001         YGWA-10 (021221)         EPA 300.0 Rev 2.1 1993         JLH         1           2521578001         YGWA-10 (021221)         EPA 300.0 Rev 2.1 1993         JLH         1           2521578001 <td< td=""><td></td><td></td><td>EPA 7470A</td><td>VB</td><td>1</td></td<>			EPA 7470A	VB	1
2521581014       YGWA-3D(021021)       EPA 6020B       CW1       12         EPA 7470A       VB       1         2521581015       YGWA-30(021121)       EPA 6020B       CW1       12         2521581015       YGWA-30(021121)       EPA 6020B       CW1       12         2521581015       YGWA-30(021121)       EPA 6020B       CW1       12         2521581016       FB-01(021121)       EPA 6020B       CW1       12         2521581017       FB-01(021121)       EPA 6020B       CW1       12         2521581017       EB-01(021121)       EPA 6020B       CW1       12         2521581017       EB-01(021121)       EPA 6020B       CW1       12         2521581017       EB-01(021121)       EPA 6020B       CW1       12         2521578002       YGWA-145 (021021)       EPA 6020B       CW1       12         2521578010       YGWA-11 (021221)       EPA 6020B       CW1       12         2521578011       YGWA-10 (021221)       EPA 6020B       CW1       12         2521578011       YGWA-10 (021221)       EPA 6020B       CW1       12         2521578011       YGWA-10 (021221)       EPA 6020B       CW1       12         25215780			EPA 300.0 Rev 2.1 1993	CDC	1
EPA 7470A         VB         1           EPA 300.0 Rev 2.1 1993         CDC         1           2521581015         YGWA-301(021121)         EPA 6020B         CW1         12           EPA 300.0 Rev 2.1 1993         CDC         1           2521581016         FB-01(021121)         EPA 300.0 Rev 2.1 1993         CDC         1           2521581016         FB-01(021121)         EPA 6020B         CW1         12           2521581017         FB-01(021121)         EPA 6020B         CW1         12           2521581017         EB-01(021121)         EPA 6020B         CW1         12           2521581017         EB-01(021121)         EPA 6020B         CW1         12           252158002         YGWA-14S (021021)         EPA 6020B         CW1         12           2521578002         YGWA-14S (021021)         EPA 6020B         CW1         12           2521578010         YGWA-11 (021221)         EPA 6020B         CW1         12           2521578010         YGWA-1D (021221)         EPA 6020B         CW1         12           2521578011         YGWA-1D (021221)         EPA 6020B         CW1         12           2521578001         EB-02 (021021)         EPA 300.0 Rev 2.1 1993         JLH	92521581014	YGWA-3D(021021)	EPA 6020B	CW1	12
2521581015         YGWA-30(021121)         EPA 300.0 Rev 2.1 1993         CDC         1           2521581015         YGWA-30(021121)         EPA 6020B         CW1         12           2521581016         FB-01(021121)         EPA 300.0 Rev 2.1 1993         CDC         1           2521581016         FB-01(021121)         EPA 6020B         CW1         12           2521581017         EB-01(021121)         EPA 7470A         VB         1           2521581017         EB-01(021121)         EPA 300.0 Rev 2.1 1993         CDC         1           2521581017         EB-01(021121)         EPA 300.0 Rev 2.1 1993         CDC         1           2521578002         YGWA-14S (021021)         EPA 300.0 Rev 2.1 1993         CDC         1           2521578010         YGWA-14S (021021)         EPA 300.0 Rev 2.1 1993         CDC         1           2521578010         YGWA-11 (021221)         EPA 300.0 Rev 2.1 1993         CDC         1           2521578011         YGWA-1D (021221)         EPA 300.0 Rev 2.1 1993         JLH         1           2521578011         YGWA-1D (021221)         EPA 300.0 Rev 2.1 1993         JLH         1           2521578003         DUP-1 (021021)         EPA 300.0 Rev 2.1 1993         JLH         1 <t< td=""><td></td><td></td><td>EPA 7470A</td><td>VB</td><td>1</td></t<>			EPA 7470A	VB	1
2521581015         YGWA-301(021121)         EPA 6020B         CW1         12           EPA 7470A         VB         1           EPA 300.0 Rev 2.1 1993         CDC         1           2521581016         FB-01(021121)         EPA 6020B         CW1         12           2521581017         EB-01(021121)         EPA 6020B         CW1         12           2521581017         EB-01(021121)         EPA 6020B         CW1         12           2521581017         EB-01(021121)         EPA 300.0 Rev 2.1 1993         CDC         1           2521581017         EB-01(021121)         EPA 300.0 Rev 2.1 1993         CDC         1           2521578002         YGWA-14S (021021)         EPA 300.0 Rev 2.1 1993         CDC         1           2521578010         YGWA-14S (021021)         EPA 300.0 Rev 2.1 1993         CDC         1           2521578010         YGWA-11 (021221)         EPA 6020B         CW1         12           2521578011         YGWA-10 (021221)         EPA 6020B         CW1         12           2521578003         PGP-1 (021021)         EPA 300.0 Rev 2.1 1993         JLH         1           2521578003         DUP-1 (021021)         EPA 300.0 Rev 2.1 1993         CDC         1			EPA 300.0 Rev 2.1 1993	CDC	1
EPA 7470A         VB         1           EPA 300.0 Rev 2.1 1993         CDC         1           2521581016         FB-01(021121)         EPA 6020B         CW1         12           EPA 300.0 Rev 2.1 1993         CDC         1           2521581017         EB-01(021121)         EPA 6020B         CW1         12           2521581017         EB-01(021121)         EPA 6020B         CW1         12           2521578002         YGWA-145 (021021)         EPA 6020B         CW1         12           2521578002         YGWA-145 (021021)         EPA 6020B         CW1         12           2521578002         YGWA-145 (021021)         EPA 6020B         CW1         12           2521578010         YGWA-145 (021021)         EPA 6020B         CW1         12           2521578010         YGWA-11 (021221)         EPA 6020B         CW1         12           2521578011         YGWA-10 (021221)         EPA 6020B         CW1         12           2521578001         EB-02 (021021)         EPA 6020B         CW1         12           2521578001         EB-02 (021021)         EPA 6020B         CW1         12           2521578003         DUP-1 (021021)         EPA 6020B         CW1         12	92521581015	YGWA-30I(021121)	EPA 6020B	CW1	12
2521581016         FB-01(021121)         EPA 300.0 Rev 2.1 1993         CDC         1           2521581016         FB-01(021121)         EPA 6020B         CW1         12           2521581017         EB-01(021121)         EPA 300.0 Rev 2.1 1993         CDC         1           2521581017         EB-01(021121)         EPA 6020B         CW1         12           252158002         YGWA-14S (021021)         EPA 6020B         CW1         12           2521578002         YGWA-14S (021021)         EPA 6020B         CW1         12           2521578002         YGWA-14S (021021)         EPA 6020B         CW1         12           2521578001         YGWA-14S (021021)         EPA 6020B         CW1         12           2521578010         YGWA-11 (021221)         EPA 6020B         CW1         12           2521578011         YGWA-1D (021221)         EPA 6020B         CW1         12           2521578001         EB-02 (021021)         EPA 6020B         CW1         12           2521578001         EB-02 (021021)         EPA 6020B         CW1         12           2521578003         DUP-1 (021021)         EPA 6020B         CW1         12           2521578003         DUP-1 (021021)         EPA 6020B			EPA 7470A	VB	1
2521581016         FB-01(021121)         EPA 6020B         CW1         12           EPA 7470A         VB         1           EPA 300.0 Rev 2.1 1993         CDC         1           2521581017         EB-01(021121)         EPA 6020B         CW1         12           2521581017         EB-01(021121)         EPA 6020B         CW1         12           2521578002         YGWA-14S (021021)         EPA 6020B         CW1         12           2521578002         YGWA-14S (021021)         EPA 6020B         CW1         12           2521578010         YGWA-14S (021021)         EPA 6020B         CW1         12           2521578010         YGWA-11 (021221)         EPA 6020B         CW1         12           2521578011         YGWA-1D (021221)         EPA 300.0 Rev 2.1 1993         JLH         1           2521578011         YGWA-1D (021221)         EPA 300.0 Rev 2.1 1993         JLH         1           2521578001         EB-02 (021021)         EPA 300.0 Rev 2.1 1993         JLH         1           2521578003         DUP-1 (021021)         EPA 300.0 Rev 2.1 1993         JLH         1           2521578003         DUP-1 (021021)         EPA 6020B         CW1         12           EPA 300.0 Rev 2			EPA 300.0 Rev 2.1 1993	CDC	1
EPA 7470A         VB         1           EPA 300.0 Rev 2.1 1993         CDC         1           2521581017         EB-01(021121)         EPA 6020B         CW1         12           EPA 7470A         VB         1         1         12           EPA 7470A         VB         1         12         12           EPA 7470A         VB         1         12         12           EPA 7470A         VB         1         12         12           2521578002         YGWA-145 (021021)         EPA 6020B         CW1         12           2521578010         YGWA-145 (021021)         EPA 6020B         CW1         12           2521578010         YGWA-11 (021221)         EPA 6020B         CW1         12           2521578011         YGWA-1D (021221)         EPA 6020B         CW1         12           2521578011         YGWA-1D (021221)         EPA 6020B         CW1         12           2521578001         EB-02 (021021)         EPA 6020B         CW1         12           2521578001         EB-02 (021021)         EPA 6020B         CW1         12           2521578003         DUP-1 (021021)         EPA 6020B         CW1         12           252157	92521581016	FB-01(021121)	EPA 6020B	CW1	12
2521581017         EB-01(021121)         EPA 300.0 Rev 2.1 1993         CDC         1           2521581017         EB-01(021121)         EPA 6020B         CW1         12           2521578002         YGWA-14S (021021)         EPA 300.0 Rev 2.1 1993         CDC         1           2521578002         YGWA-14S (021021)         EPA 6020B         CW1         12           2521578002         YGWA-14S (021021)         EPA 6020B         CW1         12           2521578010         YGWA-11 (021221)         EPA 300.0 Rev 2.1 1993         CDC         1           2521578011         YGWA-1D (021221)         EPA 300.0 Rev 2.1 1993         JLH         1           2521578011         YGWA-1D (021221)         EPA 6020B         CW1         12           2521578011         YGWA-1D (021221)         EPA 300.0 Rev 2.1 1993         JLH         1           2521578001         EB-02 (021021)         EPA 300.0 Rev 2.1 1993         JLH         1           2521578003         DUP-1 (021021)         EPA 300.0 Rev 2.1 1993         CDC         1           2521578003         DUP-1 (021021)         EPA 6020B         CW1         12           EPA 300.0 Rev 2.1 1993         CDC         1         1           EPA 300.0 Rev 2.1 1993         CD			EPA 7470A	VB	1
2521581017         EB-01(021121)         EPA 6020B         CW1         12           EPA 7470A         VB         1           EPA 300.0 Rev 2.1 1993         CDC         1           2521578002         YGWA-14S (021021)         EPA 6020B         CW1         12           2521578002         YGWA-14S (021021)         EPA 6020B         CW1         12           2521578010         YGWA-11 (021221)         EPA 6020B         CW1         12           2521578010         YGWA-11 (021221)         EPA 6020B         CW1         12           2521578011         YGWA-10 (021221)         EPA 6020B         CW1         12           2521578011         YGWA-10 (021221)         EPA 6020B         CW1         12           2521578011         YGWA-10 (021221)         EPA 6020B         CW1         12           2521578001         EB-02 (021021)         EPA 6020B         CW1         12           2521578001         EB-02 (021021)         EPA 6020B         CW1         12           2521578003         DUP-1 (021021)         EPA 300.0 Rev 2.1 1993         CDC         1           2521578003         DUP-1 (021021)         EPA 7470A         VB         1           2521578003         DUP-1 (021021)			EPA 300.0 Rev 2.1 1993	CDC	1
EPA 7470A       VB       1         EPA 300.0 Rev 2.1 1993       CDC       1         2521578002       YGWA-14S (021021)       EPA 6020B       CW1       12         EPA 7470A       VB       1       1       1         2521578002       YGWA-14S (021021)       EPA 6020B       CW1       12         EPA 300.0 Rev 2.1 1993       CDC       1       1         2521578010       YGWA-11 (021221)       EPA 6020B       CW1       12         EPA 300.0 Rev 2.1 1993       JLH       1       1         2521578011       YGWA-1D (021221)       EPA 6020B       CW1       12         EPA 300.0 Rev 2.1 1993       JLH       1       1         2521578001       EB-02 (021021)       EPA 6020B       CW1       12         EPA 300.0 Rev 2.1 1993       JLH       1       1         2521578001       EB-02 (021021)       EPA 6020B       CW1       12         EPA 300.0 Rev 2.1 1993       JLH       1       1         2521578003       DUP-1 (021021)       EPA 6020B       CW1       12         EPA 300.0 Rev 2.1 1993       CDC       1       1         EPA 300.0 Rev 2.1 1993       CDC       1       1	92521581017	EB-01(021121)	EPA 6020B	CW1	12
EPA 300.0 Rev 2.1 1993         CDC         1           2521578002         YGWA-14S (021021)         EPA 6020B         CW1         12           EPA 7470A         VB         1           2521578010         YGWA-11 (021221)         EPA 300.0 Rev 2.1 1993         CDC         1           2521578010         YGWA-11 (021221)         EPA 6020B         CW1         12           2521578011         YGWA-10 (021221)         EPA 300.0 Rev 2.1 1993         JLH         1           2521578011         YGWA-1D (021221)         EPA 6020B         CW1         12           2521578011         YGWA-1D (021221)         EPA 6020B         CW1         12           2521578001         EB-02 (021021)         EPA 6020B         CW1         12           2521578001         EB-02 (021021)         EPA 6020B         CW1         12           2521578003         DUP-1 (021021)         EPA 6020B         CW1         12           2521578003         DUP-1 (021021)         EPA 6020B         CW1         12           EPA 300.0 Rev 2.1 1993         CDC         1         12           EPA 300.0 Rev 2.1 1993         CDC         1         12           EPA 300.0 Rev 2.1 1993         CDC         1         1 <td></td> <td></td> <td>EPA 7470A</td> <td>VB</td> <td>1</td>			EPA 7470A	VB	1
2521578002       YGWA-14S (021021)       EPA 6020B       CW1       12         EPA 7470A       VB       1         EPA 300.0 Rev 2.1 1993       CDC       1         2521578010       YGWA-11 (021221)       EPA 6020B       CW1       12         EPA 7470A       VB       1       1         2521578010       YGWA-11 (021221)       EPA 6020B       CW1       12         EPA 7470A       VB       1       1         2521578011       YGWA-1D (021221)       EPA 6020B       CW1       12         EPA 300.0 Rev 2.1 1993       JLH       1       1         2521578011       YGWA-1D (021221)       EPA 6020B       CW1       12         EPA 300.0 Rev 2.1 1993       JLH       1       1         2521578001       EB-02 (021021)       EPA 6020B       CW1       12         EPA 7470A       VB       1       1         EPA 300.0 Rev 2.1 1993       CDC       1       1         2521578003       DUP-1 (021021)       EPA 6020B       CW1       12         EPA 300.0 Rev 2.1 1993       CDC       1       1         EPA 300.0 Rev 2.1 1993       CDC       1       1         EPA 300.0 Rev 2.1 1993       <			EPA 300.0 Rev 2.1 1993	CDC	1
EPA 7470A       VB       1         EPA 300.0 Rev 2.1 1993       CDC       1         2521578010       YGWA-11 (021221)       EPA 6020B       CW1       12         EPA 7470A       VB       1       1         2521578011       YGWA-1D (021221)       EPA 300.0 Rev 2.1 1993       JLH       1         2521578011       YGWA-1D (021221)       EPA 6020B       CW1       12         2521578011       YGWA-1D (021221)       EPA 6020B       CW1       12         2521578001       EB-02 (021021)       EPA 300.0 Rev 2.1 1993       JLH       1         2521578001       EB-02 (021021)       EPA 6020B       CW1       12         2521578003       DUP-1 (021021)       EPA 300.0 Rev 2.1 1993       CDC       1         2521578003       DUP-1 (021021)       EPA 6020B       CW1       12         EPA 300.0 Rev 2.1 1993       CDC       1       1         EPA 300.0 Rev 2.1 1993       CDC       1       1         EPA 300.0 Rev 2.1 1993       CDC       1       1         EPA 300.0 Rev 2.1 1993       CDC       1       1         EPA 300.0 Rev 2.1 1993       CDC       1       1         EPA 300.0 Rev 2.1 1993       CDC	92521578002	YGWA-14S (021021)	EPA 6020B	CW1	12
EPA 300.0 Rev 2.1 1993       CDC       1         2521578010       YGWA-11 (021221)       EPA 6020B       CW1       12         EPA 7470A       VB       1         2521578011       YGWA-1D (021221)       EPA 300.0 Rev 2.1 1993       JLH       1         2521578011       YGWA-1D (021221)       EPA 6020B       CW1       12         2521578011       YGWA-1D (021221)       EPA 6020B       CW1       12         2521578001       EB-02 (021021)       EPA 300.0 Rev 2.1 1993       JLH       1         2521578001       EB-02 (021021)       EPA 6020B       CW1       12         2521578003       DUP-1 (021021)       EPA 300.0 Rev 2.1 1993       JLH       1         2521578003       DUP-1 (021021)       EPA 6020B       CW1       12         EPA 300.0 Rev 2.1 1993       CDC       1       1         EPA 300.0 Rev 2.1 1993       CDC       1       1         EPA 300.0 Rev 2.1 1993       CDC       1       1         EPA 300.0 Rev 2.1 1993       CDC       1       1         EPA 300.0 Rev 2.1 1993       CDC       1       1         EPA 300.0 Rev 2.1 1993       CDC       1       1			EPA 7470A	VB	1
2521578010       YGWA-11 (021221)       EPA 6020B       CW1       12         EPA 7470A       VB       1         EPA 300.0 Rev 2.1 1993       JLH       1         2521578011       YGWA-1D (021221)       EPA 6020B       CW1       12         2521578011       YGWA-1D (021221)       EPA 6020B       CW1       12         2521578001       YGWA-1D (021021)       EPA 300.0 Rev 2.1 1993       JLH       1         2521578001       EB-02 (021021)       EPA 6020B       CW1       12         EPA 300.0 Rev 2.1 1993       JLH       1       1         2521578003       DUP-1 (021021)       EPA 6020B       CW1       12         EPA 6020B       CW1       12       1       1         EPA 300.0 Rev 2.1 1993       CDC       1       1         EPA 6020B       CW1       12       1       1         EPA 6020B       CW1       12       1       1       1         2521578003       DUP-1 (021021)       EPA 6020B       CW1       1       1         EPA 300.0 Rev 2.1 1993       CDC       1       1       1       1       1         EPA 300.0 Rev 2.1 1993       CDC       1       1       1       <			EPA 300.0 Rev 2.1 1993	CDC	1
EPA 7470A       VB       1         EPA 300.0 Rev 2.1 1993       JLH       1         2521578011       YGWA-1D (021221)       EPA 6020B       CW1       12         EPA 7470A       VB       1       1         252157801       EPA 6020B       CW1       12         EPA 300.0 Rev 2.1 1993       JLH       1         2521578001       EB-02 (021021)       EPA 6020B       CW1       12         EPA 7470A       VB       1       1       1         2521578001       EB-02 (021021)       EPA 6020B       CW1       12         EPA 300.0 Rev 2.1 1993       CDC       1       1         2521578003       DUP-1 (021021)       EPA 6020B       CW1       12         EPA 7470A       VB       1       1       1         EPA 300.0 Rev 2.1 1993       CDC       1       1         EPA 300.0 Rev 2.1 1993       CDC       1       1         EPA 300.0 Rev 2.1 1993       CDC       1       1         EPA 300.0 Rev 2.1 1993       CDC       1       1	92521578010	YGWA-1I (021221)	EPA 6020B	CW1	12
EPA 300.0 Rev 2.1 1993       JLH       1         2521578011       YGWA-1D (021221)       EPA 6020B       CW1       12         EPA 7470A       VB       1         EPA 300.0 Rev 2.1 1993       JLH       1         2521578001       EB-02 (021021)       EPA 6020B       CW1       12         EPA 7470A       VB       1       1         2521578001       EB-02 (021021)       EPA 6020B       CW1       12         EPA 7470A       VB       1       1         2521578003       DUP-1 (021021)       EPA 6020B       CW1       12         EPA 6020B       CW1       12       1       1         EPA 6020B       CW1       12       1       1         EPA 6020B       CW1       12       1       1         EPA 6020B       CW1       12       1       1         EPA 6020B       CW1       12       1       1       1         EPA 7470A       VB       1       1       1       1       1         EPA 300.0 Rev 2.1 1993       CDC       1       1       1       1       1         EPA 300.0 Rev 2.1 1993       CDC       1       1       1			EPA 7470A	VB	1
2521578011       YGWA-1D (021221)       EPA 6020B       CW1       12         EPA 7470A       VB       1         EPA 300.0 Rev 2.1 1993       JLH       1         2521578001       EB-02 (021021)       EPA 6020B       CW1       12         EPA 7470A       VB       1       1         2521578001       EB-02 (021021)       EPA 6020B       CW1       12         EPA 7470A       VB       1       1         2521578003       DUP-1 (021021)       EPA 6020B       CW1       12         EPA 7470A       VB       1       1         EPA 6020B       CW1       12       1         EPA 300.0 Rev 2.1 1993       CDC       1         EPA 300.0 Rev 2.1 1993       CDC       1         EPA 300.0 Rev 2.1 1993       CDC       1			EPA 300.0 Rev 2.1 1993	JLH	1
EPA 7470A       VB       1         EPA 300.0 Rev 2.1 1993       JLH       1         2521578001       EB-02 (021021)       EPA 6020B       CW1       12         EPA 7470A       VB       1         EPA 300.0 Rev 2.1 1993       CDC       1         2521578003       DUP-1 (021021)       EPA 6020B       CW1       12         EPA 6020B       CW1       12         EPA 6020B       CW1       12         EPA 7470A       VB       1         EPA 7470A       VB       1         EPA 300.0 Rev 2.1 1993       CDC       1	92521578011	YGWA-1D (021221)	EPA 6020B	CW1	12
EPA 300.0 Rev 2.1 1993       JLH       1         2521578001       EB-02 (021021)       EPA 6020B       CW1       12         EPA 7470A       VB       1         EPA 300.0 Rev 2.1 1993       CDC       1         2521578003       DUP-1 (021021)       EPA 6020B       CW1       12         EPA 7470A       VB       1       1         EPA 6020B       CW1       12         EPA 7470A       VB       1         EPA 7470A       VB       1         EPA 300.0 Rev 2.1 1993       CDC       1			EPA 7470A	VB	1
2521578001         EB-02 (021021)         EPA 6020B         CW1         12           EPA 7470A         VB         1           EPA 300.0 Rev 2.1 1993         CDC         1           2521578003         DUP-1 (021021)         EPA 6020B         CW1         12           EPA 7470A         VB         1         1           EPA 300.0 Rev 2.1 1993         CDC         1           EPA 300.0 Rev 2.1 1993         CDC         1			EPA 300.0 Rev 2.1 1993	JLH	1
EPA 7470A         VB         1           EPA 300.0 Rev 2.1 1993         CDC         1           2521578003         DUP-1 (021021)         EPA 6020B         CW1         12           EPA 7470A         VB         1         12           EPA 300.0 Rev 2.1 1993         CDC         1	92521578001	EB-02 (021021)	EPA 6020B	CW1	12
EPA 300.0 Rev 2.1 1993         CDC         1           2521578003         DUP-1 (021021)         EPA 6020B         CW1         12           EPA 7470A         VB         1           EPA 300.0 Rev 2.1 1993         CDC         1			EPA 7470A	VB	1
2521578003         DUP-1 (021021)         EPA 6020B         CW1         12           EPA 7470A         VB         1           EPA 300.0 Rev 2.1 1993         CDC         1			EPA 300.0 Rev 2.1 1993	CDC	1
EPA 7470A         VB         1           EPA 300.0 Rev 2.1 1993         CDC         1	92521578003	DUP-1 (021021)	EPA 6020B	CW1	12
EPA 300.0 Rev 2.1 1993 CDC 1			EPA 7470A	VB	1
			EPA 300.0 Rev 2.1 1993	CDC	1

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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



Project: YATES AMA

Pace Project No.: 92521581

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analvzed	Qualifiers
02521581001	 XGW/A_5D (020821)					
	Barium	0.0070	ma/l	0.010	02/17/21 10.42	
EPA 6020B		0.00793	mg/L	0.010	02/17/21 19:42	
EPA 6020B	Lithium	0.000133	mg/L	0.0030	02/17/21 19:42	
EPA 6020B	Molybdenum	0.00055	mg/L	0.030	02/17/21 19:42	
EPA 300.0 Rev 2.1 1993	Fluoride	0.055J	mg/L	0.10	02/13/21 00:35	
92521581002	DUP-01(020821)					
EPA 6020B	Barium	0.020	mg/L	0.010	02/17/21 19:47	
EPA 6020B	Lithium	0.0031J	mg/L	0.030	02/17/21 19:47	
92521581003	YGWA-5I (020821)					
	Performed by	CUSTOME R			02/23/21 08:11	
	рН	5.67	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.020	mg/L	0.010	02/17/21 19:53	
EPA 6020B	Lead	0.000037J	mg/L	0.0050	02/17/21 19:53	
EPA 6020B	Lithium	0.0032J	mg/L	0.030	02/17/21 19:53	
92521581004	YGWA-39 (021021)					
	Performed by	CUSTOME R			02/23/21 08:11	
	рН	5.80	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.027	mg/L	0.010	02/17/21 19:59	
EPA 6020B	Beryllium	0.000051J	mg/L	0.0030	02/17/21 19:59	
EPA 6020B	Cadmium	0.00019J	mg/L	0.0025	02/17/21 19:59	
EPA 6020B	Cobalt	0.00098J	mg/L	0.0050	02/17/21 19:59	
EPA 6020B	Lithium	0.0071J	mg/L	0.030	02/17/21 19:59	
EPA 6020B	Molybdenum	0.0013J	mg/L	0.010	02/17/21 19:59	
92521581005	YGWA-40 (021021)					
	Performed by	CUSTOME R			02/23/21 08:11	
	рН	5.19	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.032	mg/L	0.010	02/17/21 20:05	
EPA 6020B	Beryllium	0.00021J	mg/L	0.0030	02/17/21 20:05	
92521581006	FB-01(021021)					
EPA 6020B	Antimony	0.00052J	mg/L	0.0030	02/17/21 20:39	В
92521581007	YGWA-20S (020921)					
	Performed by	CUSTOME R			02/23/21 08:11	
	рН	5.86	Std. Units		02/23/21 08:11	
EPA 6020B	Antimony	0.00032J	mg/L	0.0030	02/17/21 20:45	В
EPA 6020B	Barium	0.015	mg/L	0.010	02/17/21 20:45	
EPA 6020B	Beryllium	0.000068J	mg/L	0.0030	02/17/21 20:45	
EPA 6020B	Chromium	0.00056J	mg/L	0.010	02/17/21 20:45	
EPA 6020B	Lead	0.000063J	mg/L	0.0050	02/17/21 20:45	



Project: YATES AMA

Pace Project No.: 92521581

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521581008	YGWA-4I(020921)					
	Performed by	CUSTOME			02/23/21 08:11	
	На	к 6.06	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.013	ma/l	0.010	02/17/21 20:50	
EPA 6020B	Lithium	0.011J	mg/L	0.030	02/17/21 20:50	
92521581009	YGWA-17S(020921)					
	Performed by	CUSTOME			02/23/21 08:11	
	рH	5.62	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.016	ma/L	0.010	02/17/21 20:56	
EPA 6020B	Bervllium	0.000094J	ma/L	0.0030	02/17/21 20:56	
EPA 6020B	Chromium	0.00098J	mg/L	0.010	02/17/21 20:56	
92521581010	YGWA-18S(020921)					
	Performed by	CUSTOME			02/23/21 08:11	
	рН	R 5.43	Std Units		02/23/21 08.11	
EPA 6020B	Barium	0.40	ma/l	0.010	02/17/21 21:02	
EPA 6020B	Bervillium	0.017	mg/L	0.010	02/17/21 21:02	
EPA 6020B	Chromium	0.0000505	mg/L	0.0030	02/17/21 21:02	
EPA 6020B	Lood	0.00133	mg/L	0.010	02/17/21 21:02	
EPA 6020B	Lithium	0.0000943	mg/L	0.0030	02/17/21 21:02	
02521581011	VGWA-18/(020021)	0.00100	ilig/L	0.000	02/11/21 21:02	
32321301011	Performed by	CUSTOME			02/23/21 08:11	
	Fenomed by	R			02/23/21 00.11	
	рН	6.12	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.023	mg/L	0.010	02/17/21 21:07	
EPA 6020B	Chromium	0.00083J	mg/L	0.010	02/17/21 21:07	
EPA 6020B	Lead	0.000050J	mg/L	0.0050	02/17/21 21:07	
EPA 6020B	Lithium	0.0031J	mg/L	0.030	02/17/21 21:07	
92521581012	YGWA-21I(020921)					
	Performed by	CUSTOME			02/23/21 08:11	
	На	6.95	Std. Units		02/23/21 08:11	
EPA 6020B	Antimony	0.0013.	ma/l	0.0030	02/17/21 21:13	В
EPA 6020B	Arsenic	0.0010.1	ma/l	0.0050	02/17/21 21:13	-
EPA 6020B	Barium	0.0011	mg/L	0.010	02/17/21 21:13	
EPA 6020B	Cadmium	0.000411	mg/L	0.0025	02/17/21 21:10	
EPA 6020B	Cobalt	0.000410	mg/L	0.0020	02/17/21 21:13	
EPA 6020B	Lithium	0.0000	mg/L	0.0000	02/17/21 21:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.092J	mg/L	0.030	02/12/21 16:12	
92521581013	YGWA-3I(021021)	0.0020	<u></u>	0.10	0_,,	
	Performed by				02/23/21 08:11	
	На	7.58	Std. Units		02/23/21 08:11	
EPA 6020B	Arsenic	0.00078.1	ma/l	0.0050	02/17/21 21:19	
EPA 6020B	Barium	0.0029J	mg/L	0.010	02/17/21 21:19	



Project: YATES AMA

Pace Project No.: 92521581

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521581013	YGWA-3I(021021)					
EPA 6020B	Lithium	0.015J	mg/L	0.030	02/17/21 21:19	
EPA 6020B	Molybdenum	0.0038J	mg/L	0.010	02/17/21 21:19	
92521581014	YGWA-3D(021021)					
	Performed by	CUSTOME R			02/23/21 08:11	
	pH	7.81	Std. Units		02/23/21 08:11	
EPA 6020B	Arsenic	0.00094J	mg/L	0.0050	02/17/21 21:25	
EPA 6020B	Barium	0.0059J	mg/L	0.010	02/17/21 21:25	
EPA 6020B	Lithium	0.023J	mg/L	0.030	02/17/21 21:25	
EPA 6020B	Molybdenum	0.014	mg/L	0.010	02/17/21 21:25	
EPA 300.0 Rev 2.1 1993	Fluoride	0.43	mg/L	0.10	02/12/21 20:11	
92521581015	YGWA-30I(021121)					
	Performed by	CUSTOME			02/23/21 08:11	
	рН	5.73	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.0077J	mg/L	0.010	02/17/21 21:30	
EPA 6020B	Beryllium	0.000047J	mg/L	0.0030	02/17/21 21:30	
EPA 6020B	Cobalt	0.0078	mg/L	0.0050	02/17/21 21:30	
EPA 6020B	Lead	0.000046J	mg/L	0.0050	02/17/21 21:30	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	02/17/21 21:30	
92521581016	FB-01(021121)					
EPA 6020B	Lead	0.00013J	mg/L	0.0050	02/17/21 21:53	
92521578002	YGWA-14S (021021)					
	Performed by	CUSTOME			02/23/21 08:11	
	nH	5 35	Std Unite		02/23/21 08.11	
EPA 6020B	Barium	0.00781	ma/l	0.010	02/23/21 00.11	
EPA 6020B	Benyllium	0.00703	mg/L	0.010	02/23/21 20.47	
EPA 6020B	Lead	0.000048J	mg/L	0.0050	02/23/21 20:47	
92521578010	YGWA-1I (021221)		C C			
	Performed by	CUSTOME			02/23/21 08:11	
	рН	R 6 21	Std Units		02/23/21 08:11	
EPA 6020B	Barium	0.0090.1	ma/l	0.010	02/23/21 22:01	
EPA 6020B	Cobalt	0.0028.1	mg/L	0.0050	02/23/21 22:01	
EPA 6020B	Lead	0.00280	mg/L	0.0050	02/23/21 22:01	
EPA 6020B	Lithium	0.000303	mg/L	0.0000	02/23/21 22:01	
EPA 6020B	Molybdenum	0.00255	mg/L	0.000	02/23/21 22:01	
02521578011	VGWA-1D (021221)	0.00000	ing/L	0.010	02/20/21 22:01	
52521576011	Performed by	CUSTOME			02/23/21 08.11	
	r ononnoù by	R			02/20/21 00.11	
	рН	7.14	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.0057J	mg/L	0.010	02/23/21 22:07	
EPA 6020B	Cobalt	0.00086J	mg/L	0.0050	02/23/21 22:07	
EPA 6020B	Lead	0.000044J	mg/L	0.0050	02/23/21 22:07	

# **REPORT OF LABORATORY ANALYSIS**

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Project: YATES AMA

Pace Project No.: 92521581

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521578011	YGWA-1D (021221)					
EPA 6020B	Lithium	0.010J	mg/L	0.030	02/23/21 22:07	
EPA 6020B	Molybdenum	0.0080J	mg/L	0.010	02/23/21 22:07	
EPA 300.0 Rev 2.1 1993	Fluoride	0.068J	mg/L	0.10	02/16/21 19:01	
92521578003	DUP-1 (021021)					
EPA 6020B	Barium	0.0078J	mg/L	0.010	02/23/21 20:52	
EPA 6020B	Beryllium	0.00019J	mg/L	0.0030	02/23/21 20:52	



Project: YATES AMA

Pace Project No.: 92521581

Sample: YGWA-5D (020821)	Lab ID:	92521581001	Collecte	ed: 02/08/2	1 16:45	Received: 02/	10/21 17:10 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: El	PA 3005A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	ЗA				
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 19:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 19:42	7440-38-2	
Barium	0.0079J	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 19:42	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 19:42	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 19:42	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 19:42	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 19:42	7440-48-4	
Lead	0.00013J	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 19:42	7439-92-1	
Lithium	0.0063J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 19:42	7439-93-2	
Molybdenum	0.0011J	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 19:42	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 19:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 19:42	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:29	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Anal	ytical Services	s - Asheville	•					
Fluoride	0.055J	mg/L	0.10	0.050	1		02/13/21 00:35	16984-48-8	



Project: YATES AMA

Pace Project No.: 92521581

Sample: DUP-01(020821)	Lab ID:	9252158100	2 Collecte	ed: 02/08/2	1 00:00	Received: 02/	10/21 17:10 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Me	thod: E	PA 3005A			
	Pace Anal	ytical Service	s - Peachtre	e Corners, (	GA				
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 19:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 19:47	7440-38-2	
Barium	0.020	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 19:47	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 19:47	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 19:47	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 19:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 19:47	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 19:47	7439-92-1	
Lithium	0.0031J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 19:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 19:47	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 19:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 19:47	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	thod: El	PA 7470A			
	Pace Anal	ytical Service	s - Peachtre	e Corners, (	ЗA				
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:31	7439-97-6	
300.0 IC Anions 28 Days	Analytical Pace Anal	Method: EPA ytical Service	300.0 Rev 2 s - Asheville	2.1 1993 9					
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 00:50	16984-48-8	



Project: YATES AMA

Pace Project No.: 92521581

Sample: YGWA-5I (020821)	Lab ID:	92521581003	Collecte	ed: 02/08/2'	1 16:20	Received: 02/	10/21 17:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte	e					
Performed by	CUSTOME R				1		02/23/21 08:11		
рН	5.67	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: El	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	GΑ				
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 19:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 19:53	7440-38-2	
Barium	0.020	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 19:53	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 19:53	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 19:53	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 19:53	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 19:53	7440-48-4	
Lead	0.000037J	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 19:53	7439-92-1	
Lithium	0.0032J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 19:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 19:53	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 19:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 19:53	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	GΑ				
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:34	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville	;					
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 01:04	16984-48-8	



Project: YATES AMA

Pace Project No.: 92521581

Sample: YGWA-39 (021021)	Lab ID:	92521581004	4 Collecte	ed: 02/10/2	1 09:30	Received: 02/	10/21 17:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Service	s - Charlotte	e					
Performed by	CUSTOME R				1		02/23/21 08:11		
рН	5.80	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	thod: El	PA 3005A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, O	GΑ				
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 19:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 19:59	7440-38-2	
Barium	0.027	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 19:59	7440-39-3	
Beryllium	0.000051J	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 19:59	7440-41-7	
Cadmium	0.00019J	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 19:59	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 19:59	7440-47-3	
Cobalt	0.00098J	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 19:59	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 19:59	7439-92-1	
Lithium	0.0071J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 19:59	7439-93-2	
Molybdenum	0.0013J	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 19:59	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 19:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 19:59	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, C	GA				
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:36	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Service	s - Asheville	;					
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 01:19	16984-48-8	



Project: YATES AMA

Pace Project No.: 92521581

Sample: YGWA-40 (021021)	Lab ID:	92521581005	Collecte	ed: 02/10/2	1 10:50	Received: 02/	10/21 17:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte	e					
Performed by	CUSTOME R				1		02/23/21 08:11		
рН	5.19	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	thod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	GΑ				
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 20:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 20:05	7440-38-2	
Barium	0.032	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 20:05	7440-39-3	
Beryllium	0.00021J	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 20:05	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 20:05	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 20:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 20:05	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 20:05	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 20:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 20:05	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 20:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 20:05	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	'470A Pre	paration Met	hod: EP	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	GA				
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:38	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville	;					
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 01:33	16984-48-8	



Project: YATES AMA

Pace Project No.: 92521581

Sample: FB-01(021021)	Lab ID: 92521581006 Collected: 02/10/21 11:05 Received: 02/10/21 17:10 Matrix: Wa								
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	thod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	Αc				
Antimony	0.00052J	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 20:39	7440-36-0	В
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 20:39	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 20:39	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 20:39	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 20:39	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 20:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 20:39	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 20:39	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 20:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 20:39	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 20:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 20:39	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Pre	paration Met	thod: EP	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	GA				
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:53	7439-97-6	
300.0 IC Anions 28 Days	Analytical Pace Ana	Method: EPA 3 lytical Services	00.0 Rev 2 - Asheville	2.1 1993 9					
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 02:16	16984-48-8	



Project: YATES AMA

Pace Project No.: 92521581

Sample: YGWA-20S (020921)	Lab ID: 92521581007 Collected: 02/09/21 16:50 Received: 02/10/21 17:10 Matrix: Water								
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Service	s - Charlotte	9					
Performed by	CUSTOME R				1		02/23/21 08:11		
рН	5.86	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	thod: El	PA 3005A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, O	GΑ				
Antimony	0.00032J	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 20:45	7440-36-0	В
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 20:45	7440-38-2	
Barium	0.015	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 20:45	7440-39-3	
Beryllium	0.000068J	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 20:45	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 20:45	7440-43-9	
Chromium	0.00056J	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 20:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 20:45	7440-48-4	
Lead	0.000063J	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 20:45	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 20:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 20:45	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 20:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 20:45	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, O	GΑ				
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:55	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Service	s - Asheville	;					
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 02:31	16984-48-8	



Project: YATES AMA

Pace Project No.: 92521581

Sample: YGWA-4I(020921)	Lab ID:	Lab ID: 92521581008 Collected: 02/09/21 09:50 Received: 02/10/21 17:10 Matrix: Water									
			Report								
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual		
Field Data	Analytical	Method:									
	Pace Ana	lytical Service	s - Charlotte	9							
Performed by	CUSTOME R				1		02/23/21 08:11				
рН	6.06	Std. Units			1		02/23/21 08:11				
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: E	PA 3005A					
	Pace Ana	lytical Service	s - Peachtre	e Corners, G	βA						
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 20:50	7440-36-0			
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 20:50	7440-38-2			
Barium	0.013	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 20:50	7440-39-3			
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 20:50	7440-41-7			
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 20:50	7440-43-9			
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 20:50	7440-47-3			
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 20:50	7440-48-4			
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 20:50	7439-92-1			
Lithium	0.011J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 20:50	7439-93-2			
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 20:50	7439-98-7			
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 20:50	7782-49-2			
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 20:50	7440-28-0			
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A					
	Pace Ana	lytical Service	s - Peachtre	e Corners, C	<b>A</b>						
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:57	7439-97-6			
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993							
	Pace Ana	lytical Service	s - Asheville	;							
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 02:45	16984-48-8			



Project: YATES AMA

Pace Project No.: 92521581

Sample: YGWA-17S(020921)	Lab ID: 92521581009 Collected: 02/09/21 11:15 Received: 02/10/21 17:10 Matrix: Water									
			Report							
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
Field Data	Analytical	Method:								
	Pace Ana	lytical Service	s - Charlotte	)						
Performed by	CUSTOME R				1		02/23/21 08:11			
рН	5.62	Std. Units			1		02/23/21 08:11			
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: E	PA 3005A				
	Pace Ana	lytical Service	s - Peachtre	e Corners, G	βA					
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 20:56	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 20:56	7440-38-2		
Barium	0.016	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 20:56	7440-39-3		
Beryllium	0.000094J	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 20:56	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 20:56	7440-43-9		
Chromium	0.00098J	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 20:56	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 20:56	7440-48-4		
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 20:56	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 20:56	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 20:56	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 20:56	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 20:56	7440-28-0		
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A				
	Pace Ana	lytical Service	s - Peachtre	e Corners, G	βA					
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:00	7439-97-6		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993						
	Pace Ana	lytical Service	s - Asheville							
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 03:29	16984-48-8		



Project: YATES AMA

Pace Project No.: 92521581

Sample: YGWA-18S(020921)	Lab ID: 92521581010 Collected: 02/09/21 13:25 Received: 02/10/21 17:10 Matrix: Water									
			Report							
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
Field Data	Analytical	Method:								
	Pace Ana	lytical Service	s - Charlotte	;						
Performed by	CUSTOME R				1		02/23/21 08:11			
рН	5.43	Std. Units			1		02/23/21 08:11			
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: El	PA 3005A				
	Pace Ana	lytical Service	s - Peachtre	e Corners, G	βA					
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:02	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:02	7440-38-2		
Barium	0.017	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:02	7440-39-3		
Beryllium	0.000098J	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:02	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:02	7440-43-9		
Chromium	0.0013J	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:02	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:02	7440-48-4		
Lead	0.000094J	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:02	7439-92-1		
Lithium	0.0019J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:02	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:02	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:02	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:02	7440-28-0		
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A				
	Pace Ana	lytical Service	s - Peachtre	e Corners, C	A					
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:02	7439-97-6		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993						
	Pace Ana	lytical Service	s - Asheville							
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 03:43	16984-48-8		



Project: YATES AMA

Pace Project No.: 92521581

Sample: YGWA-18I(020921)	Lab ID: 92521581011 Collected: 02/09/21 14:00 Received: 02/10/21 17:10 Matrix: Water									
			Report							
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
Field Data	Analytical	Method:								
	Pace Ana	lytical Services	- Charlotte	9						
Performed by	CUSTOME R				1		02/23/21 08:11			
рН	6.12	Std. Units			1		02/23/21 08:11			
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Pre	paration Met	hod: E	PA 3005A				
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA					
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:07	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:07	7440-38-2		
Barium	0.023	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:07	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:07	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:07	7440-43-9		
Chromium	0.00083J	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:07	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:07	7440-48-4		
Lead	0.000050J	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:07	7439-92-1		
Lithium	0.0031J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:07	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:07	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:07	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:07	7440-28-0		
7470 Mercury	Analytical	Method: EPA 7	7470A Pre	paration Met	hod: El	PA 7470A				
	Pace Ana	lytical Services	- Peachtre	e Corners, C	<b>A</b>					
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:05	7439-97-6		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993						
	Pace Ana	lytical Services	- Asheville	!						
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 15:56	16984-48-8		



Project: YATES AMA

Pace Project No.: 92521581

Sample: YGWA-21I(020921)	Lab ID: 92521581012 Collected: 02/09/21 16:10 Received: 02/10/21 17:10 Matrix: Wa									
			Report							
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
Field Data	Analytical	Method:								
	Pace Ana	lytical Services	- Charlotte	9						
Performed by	CUSTOME R				1		02/23/21 08:11			
рН	6.95	Std. Units			1		02/23/21 08:11			
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	thod: EP	A 3005A				
	Pace Ana	lytical Services	- Peachtre	e Corners, O	GΑ					
Antimony	0.0013J	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:13	7440-36-0	В	
Arsenic	0.0010J	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:13	7440-38-2		
Barium	0.011	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:13	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:13	7440-41-7		
Cadmium	0.00041J	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:13	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:13	7440-47-3		
Cobalt	0.0090	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:13	7440-48-4		
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:13	7439-92-1		
Lithium	0.0060J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:13	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:13	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:13	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:13	7440-28-0		
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: EP	A 7470A				
	Pace Ana	lytical Services	- Peachtre	e Corners, C	GΑ					
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:07	7439-97-6		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993						
	Pace Ana	lytical Services	- Asheville	•						
Fluoride	0.092J	mg/L	0.10	0.050	1		02/12/21 16:12	16984-48-8		



Project: YATES AMA

Pace Project No.: 92521581

Sample: YGWA-3I(021021)	Lab ID:	92521581013	Collecte	ed: 02/10/2	1 16:40	Received: 02/	11/21 13:03 Ma	atrix: Water			
			Report								
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual		
Field Data	Analytical	Method:									
	Pace Ana	lytical Services	- Charlotte	9							
Performed by	CUSTOME R				1		02/23/21 08:11				
рН	7.58	Std. Units			1		02/23/21 08:11				
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Me	thod: EF	PA 3005A					
	Pace Ana	lytical Services	- Peachtre	e Corners, (	GA						
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:19	7440-36-0			
Arsenic	0.00078J	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:19	7440-38-2			
Barium	0.0029J	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:19	7440-39-3			
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:19	7440-41-7			
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:19	7440-43-9			
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:19	7440-47-3			
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:19	7440-48-4			
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:19	7439-92-1			
Lithium	0.015J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:19	7439-93-2			
Molybdenum	0.0038J	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:19	7439-98-7			
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:19	7782-49-2			
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:19	7440-28-0			
7470 Mercury	Analytical	Method: EPA 7	470A Pre	paration Met	thod: EP	A 7470A					
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	GΑ						
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:09	7439-97-6			
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993										
	Pace Ana	lytical Services	- Asheville	•							
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 19:55	16984-48-8			



Project: YATES AMA

Pace Project No.: 92521581

Sample: YGWA-3D(021021)	Lab ID:	92521581014	Collect	ed: 02/10/2	1 17:25	Received: 02/	11/21 13:03 Ma	atrix: Water			
			Report								
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual		
Field Data	Analytical	Method:									
	Pace Ana	lytical Services	- Charlotte	e							
Performed by	CUSTOME R				1		02/23/21 08:11				
рН	7.81	Std. Units			1		02/23/21 08:11				
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Me	thod: EF	PA 3005A					
	Pace Ana	lytical Services	- Peachtre	e Corners, (	GA						
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:25	7440-36-0			
Arsenic	0.00094J	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:25	7440-38-2			
Barium	0.0059J	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:25	7440-39-3			
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:25	7440-41-7			
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:25	7440-43-9			
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:25	7440-47-3			
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:25	7440-48-4			
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:25	7439-92-1			
Lithium	0.023J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:25	7439-93-2			
Molybdenum	0.014	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:25	7439-98-7			
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:25	7782-49-2			
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:25	7440-28-0			
7470 Mercury	Analytical	Method: EPA 7	470A Pre	paration Met	thod: EP	PA 7470A					
	Pace Ana	lytical Services	- Peachtre	e Corners, (	GΑ						
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:12	7439-97-6			
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993										
	Pace Ana	lytical Services	- Asheville	)							
Fluoride	0.43	mg/L	0.10	0.050	1		02/12/21 20:11	16984-48-8			



Project: YATES AMA

Pace Project No.: 92521581

Sample: YGWA-30I(021121)	Lab ID: 92521581015 Collected: 02/11/21 09:50 Received: 02/11/21 13:03 Matrix: Water									
			Report							
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
Field Data	Analytical	Method:								
	Pace Ana	lytical Services	- Charlotte	9						
Performed by	CUSTOME R				1		02/23/21 08:11			
рН	5.73	Std. Units			1		02/23/21 08:11			
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: El	PA 3005A				
	Pace Ana	lytical Services	- Peachtre	e Corners, C	GΑ					
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:30	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:30	7440-38-2		
Barium	0.0077J	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:30	7440-39-3		
Beryllium	0.000047J	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:30	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:30	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:30	7440-47-3		
Cobalt	0.0078	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:30	7440-48-4		
Lead	0.000046J	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:30	7439-92-1		
Lithium	0.0012J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:30	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:30	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:30	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:30	7440-28-0		
7470 Mercury	Analytical	Method: EPA 7	470A Pre	paration Met	hod: EF	PA 7470A				
	Pace Ana	lytical Services	- Peachtre	e Corners, C	ЗA					
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:14	7439-97-6		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0 Rev 2	2.1 1993						
	Pace Ana	lytical Services	- Asheville							
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 20:27	16984-48-8		



Project: YATES AMA

Pace Project No.: 92521581

Sample: FB-01(021121)	Lab ID:	Lab ID: 92521581016 Collected: 02/11/21 10:00 Received: 02/11/21 13:03 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A										
	Pace Anal	ytical Service	s - Peachtre	e Corners, C	GA						
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:53	7440-36-0			
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:53	7440-38-2			
Barium	ND	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:53	7440-39-3			
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:53	7440-41-7			
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:53	7440-43-9			
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:53	7440-47-3			
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:53	7440-48-4			
Lead	0.00013J	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:53	7439-92-1			
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:53	7439-93-2			
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:53	7439-98-7			
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:53	7782-49-2			
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:53	7440-28-0			
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A					
	Pace Anal	ytical Service	s - Peachtre	e Corners, C	GΑ						
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:21	7439-97-6			
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993							
	Pace Analytical Services - Asheville										
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 20:43	16984-48-8			


Project: YATES AMA

Pace Project No.: 92521581

Sample: EB-01(021121)	Lab ID:	92521581017	Collect	ed: 02/11/2	1 12:05	Received: 02/	11/21 13:03 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	thod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, (	ЗA				
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:59	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:59	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:59	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:59	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:59	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:59	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:59	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:59	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:59	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Pre	paration Met	thod: EP	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	GΑ				
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:24	7439-97-6	
300.0 IC Anions 28 Days	Analytical Pace Ana	Method: EPA 3	00.0 Rev 2 - Asheville	2.1 1993 9					
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 20:59	16984-48-8	



Project: YATES AMA

Pace Project No.: 92521581

Sample: YGWA-14S (021021)	Lab ID:	9252157800	2 Collecte	ed: 02/10/21	08:50	Received: 02/	10/21 17:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Service	s - Charlotte	9					
Performed by	CUSTOME R				1		02/23/21 08:11		
рН	5.35	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: E	PA 3005A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, C	<b>A</b>				
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 20:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 20:47	7440-38-2	
Barium	0.0078J	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 20:47	7440-39-3	
Beryllium	0.00019J	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 20:47	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 20:47	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 20:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 20:47	7440-48-4	
Lead	0.000048J	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 20:47	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 20:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 20:47	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 20:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 20:47	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:40	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Service	s - Asheville	;					
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 22:26	16984-48-8	



Project: YATES AMA

Pace Project No.: 92521581

Sample: YGWA-1I (021221)	Lab ID:	92521578010	Collecte	ed: 02/12/2	1 13:20	Received: 02/	12/21 17:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte	9					
Performed by	CUSTOME R				1		02/23/21 08:11		
рН	6.21	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Me	thod: EP	A 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	ЗA				
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 22:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 22:01	7440-38-2	
Barium	0.0090J	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 22:01	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 22:01	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 22:01	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 22:01	7440-47-3	
Cobalt	0.0028J	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 22:01	7440-48-4	
Lead	0.00038J	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 22:01	7439-92-1	
Lithium	0.0025J	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 22:01	7439-93-2	
Molybdenum	0.0056J	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 22:01	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 22:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 22:01	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Pre	paration Met	hod: EP	A 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, (	GΑ				
Mercury	ND	mg/L	0.00050	0.000078	1	02/22/21 02:15	02/23/21 13:48	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville	•					
Fluoride	ND	mg/L	0.10	0.050	1		02/16/21 18:16	16984-48-8	



Project: YATES AMA

Pace Project No.: 92521581

Sample: YGWA-1D (021221)	Lab ID:	9252157801	Collecte	ed: 02/12/21	11:55	Received: 02/	12/21 17:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Service	s - Charlotte	9					
Performed by	CUSTOME R				1		02/23/21 08:11		
рН	7.14	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: El	PA 3005A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, G	βA				
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 22:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 22:07	7440-38-2	
Barium	0.0057J	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 22:07	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 22:07	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 22:07	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 22:07	7440-47-3	
Cobalt	0.00086J	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 22:07	7440-48-4	
Lead	0.000044J	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 22:07	7439-92-1	
Lithium	0.010J	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 22:07	7439-93-2	
Molybdenum	0.0080J	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 22:07	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 22:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 22:07	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, G	βA				
Mercury	ND	mg/L	0.00050	0.000078	1	02/22/21 02:15	02/23/21 13:50	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Service	s - Asheville						
Fluoride	0.068J	mg/L	0.10	0.050	1		02/16/21 19:01	16984-48-8	



Project: YATES AMA

Pace Project No.: 92521581

Sample: EB-02 (021021)	Lab ID:	92521578001	Collecte	ed: 02/10/2	1 11:30	Received: 02/	10/21 17:10 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Pre	paration Met	thod: EF	PA 3005A			
	Pace Anal	ytical Services	- Peachtre	ee Corners, (	GΑ				
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 20:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 20:41	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 20:41	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 20:41	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 20:41	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 20:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 20:41	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 20:41	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 20:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 20:41	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 20:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 20:41	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	7470A Pre	paration Met	hod: EF	PA 7470A			
	Pace Anal	ytical Services	- Peachtre	ee Corners, 0	GΑ				
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:37	7439-97-6	
300.0 IC Anions 28 Days	Analytical Pace Anal	Method: EPA 3 lytical Services	300.0 Rev 2 - Asheville	2.1 1993 e					
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 22:11	16984-48-8	



Project: YATES AMA

Pace Project No.: 92521581

Sample: DUP-1 (021021)	Lab ID:	9252157800	3 Collecte	ed: 02/10/2	1 00:00	Received: 02/	10/21 17:10 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	thod: E	PA 3005A			
	Pace Anal	ytical Service	es - Peachtre	e Corners, C	GA				
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 20:52	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 20:52	7440-38-2	
Barium	0.0078J	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 20:52	7440-39-3	
Beryllium	0.00019J	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 20:52	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 20:52	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 20:52	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 20:52	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 20:52	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 20:52	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 20:52	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 20:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 20:52	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A			
	Pace Anal	ytical Service	es - Peachtre	e Corners, C	GΑ				
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:47	7439-97-6	
300.0 IC Anions 28 Days	Analytical Pace Anal	Method: EPA ytical Service	300.0 Rev 2 s - Asheville	2.1 1993					
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 22:40	16984-48-8	



Project:	YATES	AMA						
Pace Project No.:	925215	81						
QC Batch:	60063	3		Analysis Meth	od:	EPA 6020B		
QC Batch Method:	EPA 3	005A		Analysis Desc	ription:	6020 MET		
				Laboratory:		Pace Analytical Se	rvices - Peachtree	Corners, GA
Associated Lab Sar	nples:	92521581001, 92521581008, 92521581015,	92521581002, 92521581009, 92521581016,	92521581003, 92 92521581010, 92 92521581017	521581004 521581011	92521581005, 925 92521581012, 925	21581006, 925215 21581013, 925215	581007, 581014,
METHOD BLANK:	316560	5		Matrix:	Nater			
Associated Lab Sar	mples:	92521581001, 92521581008, 92521581015,	92521581002, 92521581009, 92521581016,	92521581003, 92 92521581010, 92 92521581017	521581004 521581011	92521581005, 925 92521581012, 925	521581006, 925215 521581013, 925215	581007, 581014,
				Blank	Reporting			
Parar	neter		Units	Result	Limit	MDL	Analyzed	Qualifiers
Antimony			mg/L	0.00031J	0.00	0.00028	02/17/21 19:30	
Arsenic			mg/L	ND	0.00	0.00078	02/17/21 19:30	
Barium			mg/L	ND	0.0	0.00071	02/17/21 19:30	
Beryllium			mg/L	ND	0.00	0.000046	02/17/21 19:30	
Cadmium			mg/L	ND	0.00	0.00012	02/17/21 19:30	
Chromium			mg/L	ND	0.0	0.00055	02/17/21 19:30	
Cobalt			mg/L	ND	0.00	0.00038	02/17/21 19:30	
Lead			mg/L	ND	0.00	0.000036	02/17/21 19:30	
Lithium			mg/L	ND	0.0	0.00081	02/17/21 19:30	
Molybdenum			mg/L	ND	0.0	0.00069	02/17/21 19:30	
Selenium			mg/L	ND	0.0	0.0016	02/17/21 19:30	
Thallium			mg/L	ND	0.00	0.00014	02/17/21 19:30	
LABORATORY CO	NTROLS	SAMPLE: 316	65606					

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SP	IKE DUPL	CATE: 3165	608		3165611							
		92521581005	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	2	20	

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

# **REPORT OF LABORATORY ANALYSIS**

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Project: YATES AMA Pace Project No.: 92521581

MATRIX SPIKE & MATRIX SPIK	608 MS	MSD	3165611									
		92521581005	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	0.10	0.098	101	98	75-125	3	20	
Barium	mg/L	0.032	0.1	0.1	0.14	0.13	103	98	75-125	4	20	
Beryllium	mg/L	0.00021J	0.1	0.1	0.092	0.093	92	93	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	102	100	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.11	0.10	105	103	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.099	103	99	75-125	4	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.092	0.096	92	96	75-125	4	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.098	0.095	96	94	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:	YATES AMA							
Pace Project No .:	92521581							
QC Batch:	601867		Analysis Meth	nod: E	PA 6020B			
QC Batch Method:	EPA 3005A		Analysis Desc	cription: 6	6020 MET			
			Laboratory:	F	Pace Analytical Ser	vices - Peachtree	Corners, GA	
Associated Lab Sar	mples: 925215780	01, 92521578002	, 92521578003, 92	2521578010, 9	92521578011			
METHOD BLANK:	3171184		Matrix:	Water				
Associated Lab Sar	mples: 925215780	01, 92521578002	, 92521578003, 92	2521578010, 9	92521578011			
			Blank	Reporting				
Parar	neter	Units	Result	Limit	MDL	Analyzed	Qualifiers	
Antimony		mg/L	ND	0.0030	0.00028	02/23/21 20:30		•
Arsenic		mg/L	ND	0.0050	0.00078	02/23/21 20:30		
Barium		mg/L	ND	0.010	0.00071	02/23/21 20:30		
Beryllium		mg/L	ND	0.0030	0.000046	02/23/21 20:30		
Cadmium		mg/L	ND	0.002	5 0.00012	02/23/21 20:30		
Chromium		mg/L	ND	0.010	0.00055	02/23/21 20:30		
Cobalt		mg/L	ND	0.0050	0.00038	02/23/21 20:30		
Lead		mg/L	ND	0.0050	0.000036	02/23/21 20:30		
Lithium		mg/L	ND	0.030	0.00081	02/23/21 20:30		
Molybdenum		mg/L	ND	0.010	0.00069	02/23/21 20:30		
Selenium		mg/L	ND	0.010	0.0016	02/23/21 20:30		
Thallium		mg/L	ND	0.0010	0.00014	02/23/21 20:30		

#### LABORATORY CONTROL SAMPLE: 3171185

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Antimony	mg/L	0.1	0.11	108	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.090	90	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3171	186		3171187							
		92521578009	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Мах	
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	110	108	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Barium	mg/L	0.078	0.1	0.1	0.18	0.18	105	99	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.093	0.096	93	96	75-125	2	20	

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### **REPORT OF LABORATORY ANALYSIS**

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Project:	YATES AMA
Pace Project No .:	92521581

MATRIX SPIKE & MATRIX SPI	KE DUPI	LICATE: 3171	186		3171187							
Parameter	Units	92521578009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	mg/L	0.00052J	0.1	0.1	0.10	0.10	103	104	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.097	100	97	75-125	2	20	
Lithium	mg/L	0.0070J	0.1	0.1	0.10	0.10	93	93	75-125	1	20	
Molybdenum	mg/L	0.0012J	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.092	0.091	92	91	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	2	20	

#### MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3171188

3171189

			MS	MSD								
		92521578011	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	103	106	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.093	0.096	93	96	75-125	3	20	
Barium	mg/L	0.0057J	0.1	0.1	0.10	0.10	95	97	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.090	0.093	90	93	75-125	4	20	
Cadmium	mg/L	ND	0.1	0.1	0.098	0.10	98	103	75-125	5	20	
Chromium	mg/L	ND	0.1	0.1	0.096	0.099	96	98	75-125	3	20	
Cobalt	mg/L	0.00086J	0.1	0.1	0.093	0.097	92	96	75-125	4	20	
Lead	mg/L	0.000044J	0.1	0.1	0.094	0.098	94	98	75-125	3	20	
Lithium	mg/L	0.010J	0.1	0.1	0.10	0.11	90	96	75-125	5	20	
Molybdenum	mg/L	0.0080J	0.1	0.1	0.10	0.11	95	99	75-125	3	20	
Selenium	mg/L	ND	0.1	0.1	0.086	0.089	86	89	75-125	3	20	
Thallium	mg/L	ND	0.1	0.1	0.092	0.095	92	95	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 AMA											
Pace Project No.:	92521581											
QC Batch:	600023		Analy	sis Method	d:	EPA 7470A						
QC Batch Method:	EPA 7470A		Analy	sis Descri	ption:	7470 Mercu	ry					
			Labor	ratory:		Pace Analyt	ical Serv	ices - Peacl	htree Corne	ers, GA		
Associated Lab Sar	mples: 92521578	001, 9252157800	02, 92521578	8003								
METHOD BLANK:	3163248			Matrix: W	ater							
Associated Lab Sar	nples: 92521578	001, 9252157800	02, 92521578	8003								
			Blan	k l	Reporting							
Parar	neter	Units	Resu	ult	Limit	MDI	-	Analyzed	d Q	ualifiers		
								00/40/04 44				
Mercury		mg/L		ND	0.0005	0 0.0	0018	02/16/21 11	:30			
Mercury		mg/L		ND	0.0005	0 0.0	0078	02/16/21 11	:30			
Mercury LABORATORY COI	NTROL SAMPLE:	mg/L 3163249		ND	0.0005	0 0.00	J0078	02/16/21 11	.30			
Mercury LABORATORY COI	NTROL SAMPLE:	mg/L 3163249	Spike	ND LC	0.0005	LCS		Rec				
Mercury LABORATORY COI Parar	NTROL SAMPLE:	mg/L 3163249 Units	Spike Conc.	ND LC Res	0.0005 :S sult	LCS % Rec	00078 % Lir	Rec mits	Qualifiers			
Mercury LABORATORY COI Parar Mercury	NTROL SAMPLE:	mg/L 3163249 Units mg/L	Spike Conc.	ND LC Res 5	0.0005 S Sult 0.0025	LCS % Rec 100	00078 %  )	Rec mits 80-120	Qualifiers			
Mercury LABORATORY COI Parar Mercury	NTROL SAMPLE:	mg/L 3163249 Units mg/L	Spike Conc. 0.002	LC Res 5	0.0005 S sult 0.0025	LCS % Rec 100	00078 %  )	Rec mits 80-120	Qualifiers			
Mercury LABORATORY COL Parar Mercury MATRIX SPIKE & M	NTROL SAMPLE: neter MATRIX SPIKE DUP	mg/L 3163249 	Spike Conc. 0.0025	ND LC 5	0.0005 S Sult 0.0025 3163251	LCS % Rec 100	% 	Rec mits 80-120	Qualifiers			
Mercury LABORATORY COI Parar Mercury MATRIX SPIKE & M	NTROL SAMPLE: neter MATRIX SPIKE DUP	mg/L 3163249 	Spike Conc. 0.002 250 MS	ND LC Res 5 MSD	0.0005 Sault 0.0025 3163251	LCS % Rec 100	% Lir	Rec mits 80-120	Qualifiers			
Mercury LABORATORY COI Parar Mercury MATRIX SPIKE & N	NTROL SAMPLE: neter MATRIX SPIKE DUP	mg/L 3163249 Units mg/L LICATE: 3163 92521578009	Spike Conc. 0.0025 3250 MS Spike	ND LC Res 5 MSD Spike	0.0005 Sult 0.0025 3163251 MS	LCS % Rec 100		MSD	Qualifiers % Rec		Мах	
Mercury LABORATORY COL Parar Mercury MATRIX SPIKE & M Parameter	NTROL SAMPLE: neter MATRIX SPIKE DUP r Units	mg/L 3163249 Units mg/L LICATE: 3163 92521578009 Result	Spike Conc. 0.0029 0250 MS Spike Conc.	ND LC Res 5 MSD Spike Conc.	0.0005 Sult 0.0025 3163251 MS Result	LCS % Rec 100 MSD Result		MSD % Rec	Qualifiers % Rec Limits	RPD	Max 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 AMA											
Pace Project No.:	92521581											
QC Batch:	600356		Analy	sis Metho	d:	EPA 7470A						
QC Batch Method:	EPA 7470A		Analys	sis Descri	ption:	7470 Mercu	ry					
			Labor	atory:	I	Pace Analyt	ical Serv	ices - Peach	tree Corne	rs, GA		
Associated Lab Sar	nples: 92521581 92521581 92521581	001, 92521581002 008, 92521581009 015, 92521581016	, 9252158′ , 9252158′ , 9252158′	1003, 925 1010, 925 1017	21581004, 21581011,	9252158100 9252158107	05, 9252 12, 9252 <sup>-</sup>	1581006, 92 1581013, 92	521581007 521581014	7, ŀ,		
METHOD BLANK:	3164655		I	Matrix: W	/ater							
Associated Lab Sar	nples: 92521581 92521581 92521581	001, 92521581002 008, 92521581009 015, 92521581016	, 9252158 <sup>2</sup> , 9252158 <sup>2</sup> , 9252158 <sup>2</sup>	1003, 925 1010, 925 1017	21581004, 21581011,	9252158100 9252158107	05, 9252 12, 9252 <sup>-</sup>	1581006, 92 1581013, 92	521581007 521581014	7, ŀ,		
			Blan	k	Reporting							
Parar	neter	Units	Resu	ılt	Limit	MDI		Analyzed	Qı	ualifiers		
Mercury		mg/L		ND	0.0005	0 0.0	00078	02/18/21 11:	24			
LABORATORY CO	NTROL SAMPLE:	3164656										
Parar	neter	Units	Spike Conc.	LC Res	S Sult	LCS % Rec	% Lir	Rec mits	Qualifiers			
Mercury		mg/L	0.0025	5	0.0024	94	1	80-120				
MATRIX SPIKE & N	ATRIX SPIKE DUP	LICATE: 31646	57		3164658	3						
			MS	MSD								
		92521581005	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	r Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0024	9	7 96	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.



Pace Project No.:	92521581											
QC Batch:	601295		Analys	sis Metho	d:	EPA 7470A						
QC Batch Method:	EPA 7470A		Analys	sis Descri	ption:	7470 Mercu	ry					
			Labor	atory:		Pace Analyt	ical Serv	vices - Peac	htree Corne	ers, GA		
Associated Lab Sa	mples: 9252157	8010, 9252157801	1									
METHOD BLANK:	3168813		I	Matrix: W	/ater							
Associated Lab Sa	mples: 9252157	8010, 9252157801 <sup>,</sup>	1									
			Blan	k	Reporting							
Para	meter	Units	Resu	lt	Limit	MD	_	Analyze	d Q	ualifiers		
N.4					0.0005	0 00	00079	02/22/21 1	2.1/			
Mercury		ing/∟		ND	0.0005	0.0	00078	02/23/21 1	5.14			
Mercury		IIIg/L		ND	0.0000	0.0	00078	02/23/21 1	5.14			
LABORATORY CO	NTROL SAMPLE:	3168814			0.0003			02/23/21 1	. 14			
LABORATORY CO	NTROL SAMPLE:	3168814	Spike	LC	0.0003	LCS	%	Rec	. 14			
LABORATORY CO Para	NTROL SAMPLE:	3168814 Units	Spike Conc.	LC	CS sult	LCS % Rec	% Lin	Rec	Qualifiers			
LABORATORY CO Para Mercury	NTROL SAMPLE:	3168814 	Spike Conc. 0.0025		CS sult 0.0023	LCS % Rec 9	% 2	Rec mits 80-120	Qualifiers			
Mercury LABORATORY CO Para Mercury MATRIX SPIKE & I	NTROL SAMPLE: meter MATRIX SPIKE DU	3168814 	Spike Conc. 0.0025		2:S sult 0.0023 3168816	LCS % Rec 9.	%  2	Rec mits 80-120	Qualifiers	_		
Mercury LABORATORY CO Para Mercury MATRIX SPIKE & N	NTROL SAMPLE: meter MATRIX SPIKE DU	3168814 	Spike Conc. 0.0025 315 MS	LC Res MSD	0.0003 sult 0.0023 3168816	LCS % Rec 9:		Rec mits 80-120	Qualifiers	_		
Mercury LABORATORY CO Para Mercury MATRIX SPIKE & N	NTROL SAMPLE: meter MATRIX SPIKE DU	Ing/L 3168814 Units  mg/L IPLICATE: 31688 92521578011	Spike Conc. 0.0025 315 MS Spike	MSD Spike	0.0003 sult 0.0023 3168816 MS	LCS % Rec 9: 3 MSD		Rec mits 80-120 MSD	Qualifiers % Rec	_	Max	
Mercury LABORATORY CO Para Mercury MATRIX SPIKE & M Paramete	MTROL SAMPLE: meter MATRIX SPIKE DU	Ing/L 3168814 	Spike Conc. 0.0025 315 MS Spike Conc.	MSD Spike Conc.	0.0003 sult 0.0023 3168816 MS Result	LCS % Rec 9: 3 MSD Result	% 2 	Rec mits 80-120 MSD % Rec	Qualifiers % Rec Limits	RPD	Max 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	AMA											
Pace Project No.:	925215	81											
QC Batch:	59966	3		Analy	sis Metho	d:	EPA 300.0	Rev 2.1 19	93				
QC Batch Method:	EPA 3	00.0 Rev 2	.1 1993	Anal	/sis Descri	ption:	300.0 IC Ar	nions					
				Labo	ratory:		Pace Analy	tical Servic	es - Ashevi	lle			
Associated Lab Sar	mples:	925215780 925215810	001, 9252157800 005, 9252158100	12, 9252157 16, 9252158	8003, 925 1007, 925	21581001, 21581008,	925215810 925215810	02, 92521 009, 92521	581003, 929 581010	521581004	ŀ,		
METHOD BLANK:	316125	1			Matrix: W	/ater							
Associated Lab Sar	mples:	925215780 925215810	001, 9252157800 005, 9252158100	2, 9252157 6, 9252158	8003, 925 1007, 925	21581001, 21581008,	925215810 925215810	02, 92521 09, 92521	581003, 929 581010	521581004	ŀ,		
Darra			Linita	Blai	nk tr	Reporting			A see how and	0			
Para	neter		Units	Res	uit	Limit		<u>"L</u>	Analyzed		laimers		
Fluoride			mg/L		ND	0.1	0	0.050 0	2/12/21 20:	16			
LABORATORY CO	NTROL S	SAMPLE:	3161252	Cailea		<u> </u>	1.00	0/ D					
Para	meter		Units	Conc.	Res	sult	% Rec	% R Lim	its (	Qualifiers			
Fluoride			mg/L	2	.5	2.6	10		90-110				
MATRIX SPIKE & M	MATRIX S		LICATE: 3161	253		3161254	1						
				MS	MSD					_			
Paramete	۰r	Units	92521574009 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride		mg/L	ND	2.5	2.5	2.7	2.7	109	108	90-110	1	10	
MATRIX SPIKE & M	MATRIX S	PIKE DUP	LICATE: 3161	255	MCD	3161256	3						
			92521581005	IVIJ Snika	Snike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	r	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Fluoride		mg/L	ND	2.5	2.5	2.5	2.7	100	108	90-110	8	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 AMA											
Pace Project No.:	92521581											
QC Batch:	599664		Analy	sis Metho	d:	EPA 300.0	Rev 2.1 19	93				
QC Batch Method:	EPA 300.0 Rev 2	.1 1993	Anal	ysis Descrij	ption:	300.0 IC Ar	nions					
			Labo	ratory:		Pace Analy	tical Servio	ces - Ashevi	lle			
Associated Lab Sar	mples: 925215810	011, 9252158101	2, 9252158	31013, 9252	21581014,	925215810	15, 92521	581016, 92	521581017			
METHOD BLANK:	3161257			Matrix: W	ater							
Associated Lab Sar	mples: 925215810	011, 9252158101	2, 9252158	1013, 9252	21581014,	925215810	15, 92521	581016, 92	521581017	,		
			Blai	nk l	Reporting		-					
Parar	neter	Units	Res	ult	Limit	MD	L	Analyzed	Qu	ualifiers		
Fluoride		mg/L		ND	0.1	10	0.050 0	2/12/21 15:	24			
LABORATORY CO	NTROL SAMPLE:	3161258										
			Spike	LC	S	LCS	% F	Rec				
Parar	neter	Units	Conc.	Res	sult	% Rec	Lim	its (	Qualifiers			
Fluoride		mg/L	2	.5	2.6	10	3	90-110				
MATRIX SPIKE & M	ATRIX SPIKE DUP	LICATE: 3161	259		316126	0						
			MS	MSD								
		92521578009	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	r Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Fluoride	mg/L	0.066J	2.5	2.5	2.4	2.5	93	99	90-110	6	10	
MATRIX SPIKE & M	ATRIX SPIKE DUP	LICATE: 3161	575		316157	6						
			MS	MSD								
		92521143010	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	r Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Fluoride	mg/L	0.21	2.5	2.5	2.3	2.5	84	91	90-110	7	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 AMA											
Pace Project No.:	92521581											
QC Batch:	600235		Analy	ysis Metho	d:	EPA 300.0 I	Rev 2.1 19	93				
QC Batch Method:	EPA 300.0 Rev 2	.1 1993	Analy	ysis Descri	ption:	300.0 IC An	ions					
			Labo	oratory:		Pace Analy	tical Servic	es - Ashevil	le			
Associated Lab Sar	nples: 92521578	010, 9252157801	1									
METHOD BLANK:	3164171			Matrix: W	ater							
Associated Lab Sar	nples: 92521578	010, 9252157801	1									
			Blai	nk	Reporting							
Parar	neter	Units	Res	ult	Limit	MD	L	Analyzed	Qu	ualifiers		
Fluoride		mg/L		ND	0.1	0	0.050 0	2/16/21 14:"	16			
LABORATORY CO	NTROL SAMPLE:	3164172										
			Spike	LC	S	LCS	% R	ec				
Parar	neter	Units	Conc.	Res	sult	% Rec	Lim	its C	Qualifiers	_		
Fluoride		mg/L	2	.5	2.4	9	7	90-110				
MATRIX SPIKE & M	IATRIX SPIKE DUP	LICATE: 3164	173		3164174	4						
			MS	MSD								
Deremete	r Linita	92522138001	Spike	Spike	MS	MSD Decult	MS % Dee	MSD	% Rec	חחח	Max	Qual
Paramete		Result		Conc.	Result	Result	% Rec	% Rec	Limits			Quai
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	95	97	90-110	2	10	
MATRIX SPIKE & M	ATRIX SPIKE DUP	LICATE: 3164	175		3164170	6						
	_		MS	MSD								
		92521578011	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	r Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Fluoride	mg/L	0.068J	2.5	2.5	2.6	2.6	100	100	90-110	1	10	

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### QUALIFIERS

Project: YATES AMA Pace Project No.: 92521581

#### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

**RPD** - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

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 AMA Pace Project No.: 92521581

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521578002	YGWA-14S (021021)				
92521581003	YGWA-5I (020821)				
92521581004	YGWA-39 (021021)				
92521581005	YGWA-40 (021021)				
92521581007	YGWA-20S (020921)				
92521581008	YGWA-4I(020921)				
92521581009	YGWA-17S(020921)				
92521581010	YGWA-18S(020921)				
92521581011	YGWA-18I(020921)				
92521581012	YGWA-211(020921)				
92521581013	YGWA-3I(021021)				
92521581014	YGWA-3D(021021)				
92521581015	YGWA-30I(021121)				
92521578010	YGWA-1I (021221)				
92521578011	YGWA-1D (021221)				
92521578001	EB-02 (021021)	EPA 3005A	601867	EPA 6020B	601989
92521578002	YGWA-14S (021021)	EPA 3005A	601867	EPA 6020B	601989
92521578003	DUP-1 (021021)	EPA 3005A	601867	EPA 6020B	601989
92521581001	YGWA-5D (020821)	EPA 3005A	600633	EPA 6020B	600737
92521581002	DUP-01(020821)	EPA 3005A	600633	EPA 6020B	600737
92521581003	YGWA-5I (020821)	EPA 3005A	600633	EPA 6020B	600737
92521581004	YGWA-39 (021021)	EPA 3005A	600633	EPA 6020B	600737
92521581005	YGWA-40 (021021)	EPA 3005A	600633	EPA 6020B	600737
92521581006	FB-01(021021)	EPA 3005A	600633	EPA 6020B	600737
92521581007	YGWA-20S (020921)	EPA 3005A	600633	EPA 6020B	600737
92521581008	YGWA-4I(020921)	EPA 3005A	600633	EPA 6020B	600737
92521581009	YGWA-17S(020921)	EPA 3005A	600633	EPA 6020B	600737
92521581010	YGWA-18S(020921)	EPA 3005A	600633	EPA 6020B	600737
92521581011	YGWA-18I(020921)	EPA 3005A	600633	EPA 6020B	600737
92521581012	YGWA-21I(020921)	EPA 3005A	600633	EPA 6020B	600737
92521581013	YGWA-3I(021021)	EPA 3005A	600633	EPA 6020B	600737
92521581014	YGWA-3D(021021)	EPA 3005A	600633	EPA 6020B	600737
92521581015	YGWA-30I(021121)	EPA 3005A	600633	EPA 6020B	600737
92521581016	FB-01(021121)	EPA 3005A	600633	EPA 6020B	600737
92521581017	EB-01(021121)	EPA 3005A	600633	EPA 6020B	600737
92521578010	YGWA-1I (021221)	EPA 3005A	601867	EPA 6020B	601989
92521578011	YGWA-1D (021221)	EPA 3005A	601867	EPA 6020B	601989
92521578001	EB-02 (021021)	EPA 7470A	600023	EPA 7470A	600226
92521578002	YGWA-14S (021021)	EPA 7470A	600023	EPA 7470A	600226
92521578003	DUP-1 (021021)	EPA 7470A	600023	EPA 7470A	600226
92521581001	YGWA-5D (020821)	EPA 7470A	600356	EPA 7470A	600864
92521581002	DUP-01(020821)	EPA 7470A	600356	EPA 7470A	600864
92521581003	YGWA-5I (020821)	EPA 7470A	600356	EPA 7470A	600864
92521581004	YGWA-39 (021021)	EPA 7470A	600356	EPA 7470A	600864
92521581005	YGWA-40 (021021)	EPA 7470A	600356	EPA 7470A	600864
92521581006	FB-01(021021)	EPA 7470A	600356	EPA 7470A	600864



## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	YATES AMA
Pace Project No.:	92521581

					Analytical
Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Batch
92521581007	YGWA-20S (020921)	EPA 7470A	600356	EPA 7470A	600864
92521581008	YGWA-4I(020921)	EPA 7470A	600356	EPA 7470A	600864
92521581009	YGWA-17S(020921)	EPA 7470A	600356	EPA 7470A	600864
92521581010	YGWA-18S(020921)	EPA 7470A	600356	EPA 7470A	600864
92521581011	YGWA-18I(020921)	EPA 7470A	600356	EPA 7470A	600864
92521581012	YGWA-21I(020921)	EPA 7470A	600356	EPA 7470A	600864
92521581013	YGWA-3I(021021)	EPA 7470A	600356	EPA 7470A	600864
92521581014	YGWA-3D(021021)	EPA 7470A	600356	EPA 7470A	600864
92521581015	YGWA-30I(021121)	EPA 7470A	600356	EPA 7470A	600864
92521581016	FB-01(021121)	EPA 7470A	600356	EPA 7470A	600864
92521581017	EB-01(021121)	EPA 7470A	600356	EPA 7470A	600864
92521578010	YGWA-1I (021221)	EPA 7470A	601295	EPA 7470A	601814
92521578011	YGWA-1D (021221)	EPA 7470A	601295	EPA 7470A	601814
92521578001	EB-02 (021021)	EPA 300.0 Rev 2.1 1993	599663		
92521578002	YGWA-14S (021021)	EPA 300.0 Rev 2.1 1993	599663		
92521578003	DUP-1 (021021)	EPA 300.0 Rev 2.1 1993	599663		
92521581001	YGWA-5D (020821)	EPA 300.0 Rev 2.1 1993	599663		
92521581002	DUP-01(020821)	EPA 300.0 Rev 2.1 1993	599663		
92521581003	YGWA-5I (020821)	EPA 300.0 Rev 2.1 1993	599663		
92521581004	YGWA-39 (021021)	EPA 300.0 Rev 2.1 1993	599663		
92521581005	YGWA-40 (021021)	EPA 300.0 Rev 2.1 1993	599663		
92521581006	FB-01(021021)	EPA 300.0 Rev 2.1 1993	599663		
92521581007	YGWA-20S (020921)	EPA 300.0 Rev 2.1 1993	599663		
92521581008	YGWA-4I(020921)	EPA 300.0 Rev 2.1 1993	599663		
92521581009	YGWA-17S(020921)	EPA 300.0 Rev 2.1 1993	599663		
92521581010	YGWA-18S(020921)	EPA 300.0 Rev 2.1 1993	599663		
92521581011	YGWA-18I(020921)	EPA 300.0 Rev 2.1 1993	599664		
92521581012	YGWA-21I(020921)	EPA 300.0 Rev 2.1 1993	599664		
92521581013	YGWA-3I(021021)	EPA 300.0 Rev 2.1 1993	599664		
92521581014	YGWA-3D(021021)	EPA 300.0 Rev 2.1 1993	599664		
92521581015	YGWA-30I(021121)	EPA 300.0 Rev 2.1 1993	599664		
92521581016	FB-01(021121)	EPA 300.0 Rev 2.1 1993	599664		
92521581017	EB-01(021121)	EPA 300.0 Rev 2.1 1993	599664		
92521578010	YGWA-1I (021221)	EPA 300.0 Rev 2.1 1993	600235		
92521578011	YGWA-1D (021221)	EPA 300.0 Rev 2.1 1993	600235		

Pace Analytical*	Document Name: Sample Condition Upon Recei Document No.: F-CAR-CS-033-Rev.07	Document Revised: October 28, 2020 Page 1 of 2 Issuing Authority: Pace Carolinas Quality Office
Asheville Eden Greenwood	Huntersville Rate	eigh Mechanicsville Atlanta Kernersville
Sample Condition Upon Receipt	o o we v	Project #: WO#:92521581
Courter: Effed Ex U Commercial Pace	PS USPS D Other:	Client 92521581
Custody Seal Present? Yes	Seals Intact? 🕴 🗌 Yes 🔤 🕅	No Date/Initials Person Examining Contents 2/10/2-(
Packing Material:       Bubble Wrap       [         Thermometer:       IR Gun ID:       230         Cooler Temp:       24       Correction         Cooler Temp:       24       Add/Subtra         Cooler Temp Corrected (*C):       2         USDA Regulated Soil ( IN/A, water sample)       Did samples originate in a quarantine zone within th	Bubble Bags None Type of Ice: Factor: act (*C) 0-0 L L L L L L L L L L L L L	Other     Biological Tissue Frozen?       Yes     No       Blue     None       Temp should be above freezing to 6°C       Samples out of temp criteria. Samples on ice, cooling process has begun       cmaps)?     Did samples originate from a foreign source (internationally;
Yes No		Including Hawaii and Puerto Rico)? Yes No Comments/Discrepancy:
Chain of Custody Present?		1. 1.
Samples Arrived within Hold Time?		2.
Short Hold Time Analysis (<72 hr.)?	IYes ING IN/A	3.
Rush Turn Around Time Requested?		4.
Sufficient Volume?		A 5
Correct Containers Used? -Pace Containers Used?	1217és 12100 121/A 1217és 12100 121/A	A 6.
Containers Intact?		A 7.
Dissolved analysis: Samples Field Filtered?		A 8.:
Sample Labels Match COC?		A 9.
-includes Date/Time/ID/Analysis Matrix:		
Headspace in VOA Vials (>5-6mm)?		A 10.
Trip Black Cuttody Socia Procent?		
COMMENTS/SAMPLE DISCREPANCY		Field Data Required? Yes No
CLIENT NOTIFICATION/RESOLUTION		Lot ID of split containers:
	· · · · · · · · · · · · · · · · · · ·	
Person contacted:	Dat	te/Time:
Project Manager SCURF Review:		
Project Manager SRF Review:		Date:

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February 25, 2021

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

RE: Project: YATES AMA-R6/AP-2 Pace Project No.: 92521583

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 10, 2021 and February 11, 2021. 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,

Kardoniy

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR Lauren Coker, Georgia Pwer Geoffrey Gay, ARCADIS - Atlanta Kristen Jurinko Kelley Sharpe, ARCADIS - Atlanta Alex Simpson, Arcadis Samantha Thomas Maribel Vital





Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

### CERTIFICATIONS

Project: YATES AMA-R6/AP-2

Pace Project No.: 92521583

#### Pace Analytical Services Charlotte

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

#### Pace Analytical Services Asheville

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

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

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

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



### SAMPLE SUMMARY

Project: YATES AMA-R6/AP-2

Pace Project No.: 92521583

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92521583001	PZ-37 (020921)	Water	02/09/21 09:30	02/10/21 17:10
92521583003	YAMW-2 (020921)	Water	02/09/21 12:45	02/10/21 17:10
92521583004	YAMW-4 (020921)	Water	02/09/21 10:20	02/10/21 17:10
92521583005	YAMW-5 (020921)	Water	02/09/21 09:45	02/10/21 17:10
92521583006	YAMW-1 (020921)	Water	02/09/21 14:10	02/10/21 17:10
92521583007	PZ-35(021021)	Water	02/10/21 16:15	02/11/21 13:03



### SAMPLE ANALYTE COUNT

Project: YATES AMA-R6/AP-2 Pace Project No.: 92521583

92521583001         PZ-37 (020921)         EPA 6020B         CW1           EPA 7470A         VB           EPA 300.0 Rev 2.1 1993         CDC           92521583003         YAMW-2 (020921)         EPA 6020B         CW1
EPA 7470A VB EPA 300.0 Rev 2.1 1993 CDC 92521583003 YAMW-2 (020921) EPA 6020B CW1
EPA 300.0 Rev 2.1 1993         CDC           92521583003         YAMW-2 (020921)         EPA 6020B         CW1
92521583003 YAMW-2 (020921) EPA 6020B CW1
EPA 7470A VB
EPA 300.0 Rev 2.1 1993 CDC
92521583004 YAMW-4 (020921) EPA 6020B CW1
EPA 7470A VB
EPA 300.0 Rev 2.1 1993 CDC
92521583005 YAMW-5 (020921) EPA 6020B CW1
EPA 7470A VB
EPA 300.0 Rev 2.1 1993 CDC
92521583006 YAMW-1 (020921) EPA 6020B CW1
EPA 7470A VB
EPA 300.0 Rev 2.1 1993 CDC
92521583007 PZ-35(021021) EPA 6020B CW1
EPA 7470A VB
EPA 300.0 Rev 2.1 1993 CDC

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 AMA-R6/AP-2

Pace Project No.: 92521583

Method     Parameters     Result     Units     Report Lim       92521583001     PZ-37 (020921)       Barformed by     CUSTOME	it Analyzed Qualifiers 02/23/21 08:11 02/23/21 08:11
92521583001 PZ-37 (020921)	02/23/21 08:11 02/23/21 08:11
	02/23/21 08:11 02/23/21 08:11
	02/23/21 08:11
pH 5.42 Std. Units	
EPA 6020B Antimony 0.00035J mg/L 0.003	0 02/19/21 19:04
EPA 6020B         Arsenic         0.0015J         mg/L         0.005	0 02/19/21 19:04
EPA 6020B Barium 0.036 mg/L 0.04	0 02/19/21 19:04
EPA 6020B Beryllium 0.00029J mg/L 0.002	0 02/19/21 19:04
EPA 6020B Cadmium 0.00042J mg/L 0.002	5 02/19/21 19:04
EPA 6020B Cobalt 0.0023J mg/L 0.005	0 02/19/21 19:04
EPA 6020B Lead 0.00088J mg/L 0.005	0 02/19/21 19:04
EPA 6020B Lithium 0.024J mg/L 0.03	0 02/19/21 19:04
EPA 6020B Molybdenum 0.0016J mg/L 0.01	0 02/19/21 19:04
EPA 6020B         Selenium         0.28         mg/L         0.04	0 02/19/21 19:04
92521583003 YAMW-2 (020921)	
Performed by CUSTOME R	02/23/21 08:11
pH 5.81 Std. Units	02/23/21 08:11
EPA 6020B Barium 0.0085J mg/L 0.04	0 02/19/21 19:32
EPA 6020B         Beryllium         0.000051J         mg/L         0.003	0 02/19/21 19:32
EPA 6020B         Chromium         0.0011J         mg/L         0.01	0 02/19/21 19:32
EPA 6020B Cobalt 0.0010J mg/L 0.005	0 02/19/21 19:32
EPA 6020B         Lead         0.00011J         mg/L         0.005	0 02/19/21 19:32
92521583004 YAMW-4 (020921)	
Performed by CUSTOME R	02/23/21 08:11
pH 6.96 Std. Units	02/23/21 08:11
EPA 6020B         Antimony         0.0011J         mg/L         0.003	0 02/19/21 19:38
EPA 6020B         Arsenic         0.0010J         mg/L         0.005	0 02/19/21 19:38
EPA 6020B         Barium         0.020         mg/L         0.01	0 02/19/21 19:38
EPA 6020B         Chromium         0.00057J         mg/L         0.01	0 02/19/21 19:38
EPA 6020B         Cobalt         0.00063J         mg/L         0.005	0 02/19/21 19:38
EPA 6020B         Lead         0.00054J         mg/L         0.0054J	0 02/19/21 19:38
EPA 6020B         Lithium         0.018J         mg/L         0.03	0 02/19/21 19:38
EPA 6020B         Molybdenum         0.0068J         mg/L         0.01	0 02/19/21 19:38
EPA 300.0 Rev 2.1 1993         Fluoride         0.14         mg/L         0.14	0 02/12/21 17:16
92521583005 YAMW-5 (020921)	
Performed by CUSTOME R	02/23/21 08:11
pH 5.34 Std. Units	02/23/21 08:11
EPA 6020B Arsenic 0.00095J ma/L 0.005	0 02/19/21 19:44
EPA 6020B Barium 0.042 mg/L 0.07	0 02/19/21 19:44
EPA 6020B Beryllium 0.00015J ma/L 0.000	0 02/19/21 19:44
EPA 6020B Cadmium 0.00025J ma/L 0.002	5 02/19/21 19:44
EPA 6020B Lead 0.000073J mg/L 0.005	0 02/19/21 19:44
EPA 6020B Lithium 0.016J ma/L 0.03	0 02/19/21 19:44
EPA 6020B Selenium 0.060 mg/L 0.07	0 02/19/21 19:44



# SUMMARY OF DETECTION

Project: YATES AMA-R6/AP-2

Pace Project No.: 92521583

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521583006	YAMW-1 (020921)					
	Performed by	CUSTOME R			02/23/21 08:11	
	рН	6.42	Std. Units		02/23/21 08:11	
EPA 6020B	Antimony	0.00037J	mg/L	0.0030	02/19/21 20:01	
EPA 6020B	Barium	0.039	mg/L	0.010	02/19/21 20:01	
EPA 6020B	Cadmium	0.00013J	mg/L	0.0025	02/19/21 20:01	
EPA 6020B	Chromium	0.0010J	mg/L	0.010	02/19/21 20:01	
EPA 6020B	Cobalt	0.030	mg/L	0.0050	02/19/21 20:01	
EPA 6020B	Lead	0.00019J	mg/L	0.0050	02/19/21 20:01	
EPA 6020B	Lithium	0.021J	mg/L	0.030	02/19/21 20:01	
EPA 6020B	Molybdenum	0.0038J	mg/L	0.010	02/19/21 20:01	
92521583007	PZ-35(021021)					
	Performed by	CUSTOME R			02/23/21 08:11	
	рН	5.53	Std. Units		02/23/21 08:11	
EPA 6020B	Arsenic	0.00096J	mg/L	0.0050	02/19/21 20:07	
EPA 6020B	Barium	0.032	mg/L	0.010	02/19/21 20:07	
EPA 6020B	Beryllium	0.00025J	mg/L	0.0030	02/19/21 20:07	
EPA 6020B	Chromium	0.00060J	mg/L	0.010	02/19/21 20:07	
EPA 6020B	Lead	0.000087J	mg/L	0.0050	02/19/21 20:07	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	02/19/21 20:07	



### Project: YATES AMA-R6/AP-2

Pace Project No.: 92521583

Sample: PZ-37 (020921)	Lab ID:	92521583001	Collecte	ed: 02/09/2	09:30	Received: 02/	/10/21 17:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte	e					
Performed by	CUSTOME R				1		02/23/21 08:11		
рН	5.42	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: E	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	<b>SA</b>				
Antimony	0.00035J	mg/L	0.0030	0.00028	1	02/18/21 11:04	02/19/21 19:04	7440-36-0	
Arsenic	0.0015J	mg/L	0.0050	0.00078	1	02/18/21 11:04	02/19/21 19:04	7440-38-2	
Barium	0.036	mg/L	0.010	0.00071	1	02/18/21 11:04	02/19/21 19:04	7440-39-3	
Beryllium	0.00029J	mg/L	0.0030	0.000046	1	02/18/21 11:04	02/19/21 19:04	7440-41-7	
Cadmium	0.00042J	mg/L	0.0025	0.00012	1	02/18/21 11:04	02/19/21 19:04	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/18/21 11:04	02/19/21 19:04	7440-47-3	
Cobalt	0.0023J	mg/L	0.0050	0.00038	1	02/18/21 11:04	02/19/21 19:04	7440-48-4	
Lead	0.000088J	mg/L	0.0050	0.000036	1	02/18/21 11:04	02/19/21 19:04	7439-92-1	
Lithium	0.024J	mg/L	0.030	0.00081	1	02/18/21 11:04	02/19/21 19:04	7439-93-2	
Molybdenum	0.0016J	mg/L	0.010	0.00069	1	02/18/21 11:04	02/19/21 19:04	7439-98-7	
Selenium	0.28	mg/L	0.010	0.0016	1	02/18/21 11:04	02/19/21 19:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/18/21 11:04	02/19/21 19:04	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	'470A Pre	paration Met	hod: El	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 12:01	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
-	Pace Ana	lytical Services	- Asheville	)					
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 16:28	16984-48-8	



### Project: YATES AMA-R6/AP-2

Pace Project No.: 92521583

Sample: YAMW-2 (020921)	Lab ID: 92521583003 Collected: 02/09/21 12:45 Received: 02/10/21 17:10 Matrix: Water								
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Service	s - Charlotte	9					
Performed by	CUSTOME R				1		02/23/21 08:11		
рН	5.81	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: E	PA 3005A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, C	<b>A</b>				
Antimony	ND	mg/L	0.0030	0.00028	1	02/18/21 11:04	02/19/21 19:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/18/21 11:04	02/19/21 19:32	7440-38-2	
Barium	0.0085J	mg/L	0.010	0.00071	1	02/18/21 11:04	02/19/21 19:32	7440-39-3	
Beryllium	0.000051J	mg/L	0.0030	0.000046	1	02/18/21 11:04	02/19/21 19:32	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/18/21 11:04	02/19/21 19:32	7440-43-9	
Chromium	0.0011J	mg/L	0.010	0.00055	1	02/18/21 11:04	02/19/21 19:32	7440-47-3	
Cobalt	0.0010J	mg/L	0.0050	0.00038	1	02/18/21 11:04	02/19/21 19:32	7440-48-4	
Lead	0.00011J	mg/L	0.0050	0.000036	1	02/18/21 11:04	02/19/21 19:32	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/18/21 11:04	02/19/21 19:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/18/21 11:04	02/19/21 19:32	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/18/21 11:04	02/19/21 19:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/18/21 11:04	02/19/21 19:32	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 12:06	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Service	s - Asheville	•					
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 17:00	16984-48-8	



### Project: YATES AMA-R6/AP-2

Pace Project No.: 92521583

Sample: YAMW-4 (020921)	Lab ID: 92521583004 Collected: 02/09/21 10:20 Received: 02/10/21 17:10 Matrix: Water								
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Service	s - Charlotte	9					
Performed by	CUSTOME R				1		02/23/21 08:11		
рН	6.96	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: E	PA 3005A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, G	βA				
Antimony	0.0011J	mg/L	0.0030	0.00028	1	02/18/21 11:04	02/19/21 19:38	7440-36-0	
Arsenic	0.0010J	mg/L	0.0050	0.00078	1	02/18/21 11:04	02/19/21 19:38	7440-38-2	
Barium	0.020	mg/L	0.010	0.00071	1	02/18/21 11:04	02/19/21 19:38	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/18/21 11:04	02/19/21 19:38	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/18/21 11:04	02/19/21 19:38	7440-43-9	
Chromium	0.00057J	mg/L	0.010	0.00055	1	02/18/21 11:04	02/19/21 19:38	7440-47-3	
Cobalt	0.00063J	mg/L	0.0050	0.00038	1	02/18/21 11:04	02/19/21 19:38	7440-48-4	
Lead	0.00054J	mg/L	0.0050	0.000036	1	02/18/21 11:04	02/19/21 19:38	7439-92-1	
Lithium	0.018J	mg/L	0.030	0.00081	1	02/18/21 11:04	02/19/21 19:38	7439-93-2	
Molybdenum	0.0068J	mg/L	0.010	0.00069	1	02/18/21 11:04	02/19/21 19:38	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/18/21 11:04	02/19/21 19:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/18/21 11:04	02/19/21 19:38	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, G	βA				
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 12:08	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Service	s - Asheville	•					
Fluoride	0.14	mg/L	0.10	0.050	1		02/12/21 17:16	16984-48-8	



### Project: YATES AMA-R6/AP-2

Pace Project No.: 92521583

Sample: YAMW-5 (020921)	Lab ID: 92521583005 Collected: 02/09/21 09:45 Received: 02/10/21 17:10 Matrix: Water								
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte	9					
Performed by	CUSTOME R				1		02/23/21 08:11		
рН	5.34	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: E	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
Antimony	ND	mg/L	0.0030	0.00028	1	02/18/21 11:04	02/19/21 19:44	7440-36-0	
Arsenic	0.00095J	mg/L	0.0050	0.00078	1	02/18/21 11:04	02/19/21 19:44	7440-38-2	
Barium	0.042	mg/L	0.010	0.00071	1	02/18/21 11:04	02/19/21 19:44	7440-39-3	
Beryllium	0.00015J	mg/L	0.0030	0.000046	1	02/18/21 11:04	02/19/21 19:44	7440-41-7	
Cadmium	0.00025J	mg/L	0.0025	0.00012	1	02/18/21 11:04	02/19/21 19:44	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/18/21 11:04	02/19/21 19:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/18/21 11:04	02/19/21 19:44	7440-48-4	
Lead	0.000073J	mg/L	0.0050	0.000036	1	02/18/21 11:04	02/19/21 19:44	7439-92-1	
Lithium	0.016J	mg/L	0.030	0.00081	1	02/18/21 11:04	02/19/21 19:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/18/21 11:04	02/19/21 19:44	7439-98-7	
Selenium	0.060	mg/L	0.010	0.0016	1	02/18/21 11:04	02/19/21 19:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/18/21 11:04	02/19/21 19:44	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	<b>A</b>				
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 12:15	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
-	Pace Ana	lytical Services	s - Asheville	•					
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 17:32	16984-48-8	



### Project: YATES AMA-R6/AP-2

Pace Project No.: 92521583

Sample: YAMW-1 (020921)	Lab ID: 92521583006 Collected: 02/09/21 14:10 Received: 02/10/21 17:10 Matrix: Water								
			Report						
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 R				1		02/23/21 08:11		
рН	6.42	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: E	PA 3005A			
	Pace Ana	lytical Services	s - Peachtre	e Corners, C	βA				
Antimony	0.00037J	mg/L	0.0030	0.00028	1	02/18/21 11:04	02/19/21 20:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/18/21 11:04	02/19/21 20:01	7440-38-2	
Barium	0.039	mg/L	0.010	0.00071	1	02/18/21 11:04	02/19/21 20:01	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/18/21 11:04	02/19/21 20:01	7440-41-7	
Cadmium	0.00013J	mg/L	0.0025	0.00012	1	02/18/21 11:04	02/19/21 20:01	7440-43-9	
Chromium	0.0010J	mg/L	0.010	0.00055	1	02/18/21 11:04	02/19/21 20:01	7440-47-3	
Cobalt	0.030	mg/L	0.0050	0.00038	1	02/18/21 11:04	02/19/21 20:01	7440-48-4	
Lead	0.00019J	mg/L	0.0050	0.000036	1	02/18/21 11:04	02/19/21 20:01	7439-92-1	
Lithium	0.021J	mg/L	0.030	0.00081	1	02/18/21 11:04	02/19/21 20:01	7439-93-2	
Molybdenum	0.0038J	mg/L	0.010	0.00069	1	02/18/21 11:04	02/19/21 20:01	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/18/21 11:04	02/19/21 20:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/18/21 11:04	02/19/21 20:01	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A			
	Pace Ana	lytical Services	s - Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 12:18	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	s - Asheville	)					
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 17:48	16984-48-8	


# ANALYTICAL RESULTS

#### Project: YATES AMA-R6/AP-2

Pace Project No.: 92521583

Sample: PZ-35(021021)	Lab ID:	9252158300	7 Collecte	ed: 02/10/27	1 16:15	Received: 02/	11/21 13:03 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Service	s - Charlotte	e					
Performed by	CUSTOME R				1		02/23/21 08:11		
рН	5.53	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: E	PA 3005A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, C	βA				
Antimony	ND	mg/L	0.0030	0.00028	1	02/18/21 11:04	02/19/21 20:07	7440-36-0	
Arsenic	0.00096J	mg/L	0.0050	0.00078	1	02/18/21 11:04	02/19/21 20:07	7440-38-2	
Barium	0.032	mg/L	0.010	0.00071	1	02/18/21 11:04	02/19/21 20:07	7440-39-3	
Beryllium	0.00025J	mg/L	0.0030	0.000046	1	02/18/21 11:04	02/19/21 20:07	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/18/21 11:04	02/19/21 20:07	7440-43-9	
Chromium	0.00060J	mg/L	0.010	0.00055	1	02/18/21 11:04	02/19/21 20:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/18/21 11:04	02/19/21 20:07	7440-48-4	
Lead	0.000087J	mg/L	0.0050	0.000036	1	02/18/21 11:04	02/19/21 20:07	7439-92-1	
Lithium	0.0012J	mg/L	0.030	0.00081	1	02/18/21 11:04	02/19/21 20:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/18/21 11:04	02/19/21 20:07	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/18/21 11:04	02/19/21 20:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/18/21 11:04	02/19/21 20:07	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, C	3A				
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 12:22	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Service	s - Asheville	;					
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 22:03	16984-48-8	



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Project:	YATES AMA-R6/AP-2
1 10/000	

Pace Project No.: 92521583

QC Batch:	600920	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samp	bles: 92521583001, 92521583003, 92	521583004, 92521583005	, 92521583006, 92521583007
METHOD BLANK: 3	3167301	Matrix: Water	

Associated Lab Samples:	92521583001, 92521583003, 9	2521583004, 92	2521583005, 925	521583006, 925	21583007	
		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	02/19/21 18:52	
Arsenic	mg/L	ND	0.0050	0.00078	02/19/21 18:52	
Barium	mg/L	ND	0.010	0.00071	02/19/21 18:52	
Beryllium	mg/L	ND	0.0030	0.000046	02/19/21 18:52	
Cadmium	mg/L	ND	0.0025	0.00012	02/19/21 18:52	
Chromium	mg/L	ND	0.010	0.00055	02/19/21 18:52	
Cobalt	mg/L	ND	0.0050	0.00038	02/19/21 18:52	
Lead	mg/L	ND	0.0050	0.000036	02/19/21 18:52	
Lithium	mg/L	ND	0.030	0.00081	02/19/21 18:52	
Molybdenum	mg/L	ND	0.010	0.00069	02/19/21 18:52	
Selenium	mg/L	ND	0.010	0.0016	02/19/21 18:52	
Thallium	mg/L	ND	0.0010	0.00014	02/19/21 18:52	

#### LABORATORY CONTROL SAMPLE: 3167302

		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	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	105	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3167	303		3167304							
			MS	MSD								
		92521583001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Antimony	mg/L	0.00035J	0.1	0.1	0.12	0.11	117	110	75-125	5	20	
Arsenic	mg/L	0.0015J	0.1	0.1	0.11	0.10	106	103	75-125	2	20	
Barium	mg/L	0.036	0.1	0.1	0.14	0.13	104	95	75-125	7	20	
Beryllium	mg/L	0.00029J	0.1	0.1	0.095	0.088	95	88	75-125	7	20	

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

# **REPORT OF LABORATORY ANALYSIS**

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Project: YATES AMA-R6/AP-2

Pace Project No.: 92521583

MATRIX SPIKE & MATRIX SPI	KE DUPI	LICATE: 3167	303		3167304							
Poromotor	Linito	92521583001	MS Spike	MSD Spike	MS	MSD	MS % Roo	MSD	% Rec	חחם	Max	Qual
	Units			CONC.		Result		/0 Kec				Quai
Cadmium	mg/L	0.00042J	0.1	0.1	0.10	0.10	102	101	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.11	0.10	106	104	75-125	1	20	
Cobalt	mg/L	0.0023J	0.1	0.1	0.10	0.10	103	102	75-125	0	20	
Lead	mg/L	0.000088J	0.1	0.1	0.099	0.097	99	97	75-125	2	20	
Lithium	mg/L	0.024J	0.1	0.1	0.12	0.11	98	88	75-125	8	20	
Molybdenum	mg/L	0.0016J	0.1	0.1	0.11	0.11	108	108	75-125	1	20	
Selenium	mg/L	0.28	0.1	0.1	0.38	0.37	106	92	75-125	4	20	
Thallium	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	1	20	

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Project.	YATES AMA-R6/A	P-2										
Pace Project No.:	92521583											
QC Batch:	600023		Analy	sis Method	d:	EPA 7470A						
QC Batch Method:	EPA 7470A		Analy	sis Descri	ption:	7470 Mercui	ъ					
			Labor	ratory:		Pace Analyti	cal Servic	es - Peach	tree Corne	rs, GA		
Associated Lab Sar	mples: 92521583	001, 9252158300	3, 9252158	3004, 9252	21583005,	9252158300	06, 92521	583007				
METHOD BLANK:	3163248			Matrix: W	ater							
Associated Lab Sar	nples: 92521583	001, 9252158300	3, 9252158	3004, 9252	21583005,	9252158300	6, 92521	583007				
			Blan	k l	Reporting							
Parar	neter	Units	Resu	ult	Limit	MDL	-	Analyzed	l Qı	ualifiers		
Mercury		mg/L		ND	0.0005	0.00	00078 0	2/16/21 11	:30			
LABORATORY CO	NTROL SAMPLE:	3163249										
LABORATORY CO	NTROL SAMPLE:	3163249	Spike	LC	S	LCS	% R	ec				
LABORATORY CO	NTROL SAMPLE:	3163249 Units	Spike Conc.	LC Res	:S sult	LCS % Rec	% R Lim	ec	Qualifiers			
LABORATORY CO Parar Mercury	NTROL SAMPLE:	3163249 Units mg/L	Spike Conc.	LC Res 5	S Sult 0.0025	LCS % Rec 100	% R 	ec its 80-120	Qualifiers			
LABORATORY CO Parar Mercury	NTROL SAMPLE:	3163249 Units mg/L	Spike Conc. 0.002	LC Res 5	S sult	LCS % Rec 100	% R Lim	ec its	Qualifiers	_		
LABORATORY CO Parar Mercury MATRIX SPIKE & M	NTROL SAMPLE: neter	3163249 <u>Units</u> mg/L LICATE: 3163	Spike Conc. 0.0029	LC Res 5	S Sult 0.0025 3163251	LCS % Rec 100	% R 	ec its	Qualifiers			
LABORATORY CO Parar Mercury MATRIX SPIKE & N	NTROL SAMPLE: neter	3163249 <u>Units</u> mg/L LICATE: 3163	250 MS	LC Res 5 MSD	S sult 0.0025 3163251	LCS % Rec 100	% R 	ec its 80-120	Qualifiers	_		
LABORATORY CO Parar Mercury MATRIX SPIKE & M	NTROL SAMPLE: neter MATRIX SPIKE DUP	3163249 Units mg/L LICATE: 3163 92521578009	Spike Conc. 0.0023 250 MS Spike	LC Res 5 MSD Spike	S sult 0.0025 3163251 MS	LCS % Rec 100	% R Lim MS	ec its 80-120 MSD	Qualifiers % Rec		Max	
LABORATORY CO Parar Mercury MATRIX SPIKE & M Paramete	NTROL SAMPLE: meter MATRIX SPIKE DUP r Units	3163249 Units mg/L LICATE: 3163 92521578009 Result	Spike Conc. 0.0029 250 MS Spike Conc.	LC Res 5 MSD Spike Conc.	S sult 0.0025 3163251 MS Result	LCS % Rec 100 MSD Result	MS % Rec	ec its 80-120 MSD % Rec	Qualifiers % Rec Limits	RPD	Max 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.



Fluoride		mg/L	0.21	2.5	2.5	2.3	2.5	84	91	90-110	7	10	M1
Paramete	er	Units	92521143010 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
MATRIX SPIKE & M	MATRIX	SPIKE DUP	LICATE: 3161	575 MS	MSD	316157	6						
Fluoride		mg/L	0.066J	2.5	2.5	2.4	2.5	93	99	90-110	6	10	
Paramete	er	Units	92521578009 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
MATRIX SPIKE & M	MATRIX	SPIKE DUP	LICATE: 3161	259 MS	MED	316126	0						
Fluoride			mg/L	2	5	2.6	10	3	90-110				
LABORATORY CO	NTROL meter	SAMPLE:	3161258 Units	Spike Conc.	LC Res	S	LCS % Rec	% R Lim	lec its	Qualifiers			
			mg/∟		ND	0.1	10	0.050 0.	2/12/21 15:	24			
Para	meter		Units	Res	sult	Limit	MD	L	Analyzed		ualifiers		
Associated Lab Sa	mples:	925215830	001, 9252158300	03, 9252158 Bla	33004, 925 nk	21583005, Reporting	925215830	06, 92521	583007				
METHOD BLANK:	31612	57			Matrix: W	ater							
Associated Lab Sa	mples:	925215830	001, 9252158300	03, 9252158	33004, 925	21583005,	925215830	06, 92521	583007				
QC Batch Method:	EPA	300.0 Rev 2.	1 1993	Labo	ysis Descri pratory:	otion:	Pace Analy	tical Servic	es - Ashevi	lle			
QC Batch:	5996	64	4 4000	Anal	ysis Metho	d: 	EPA 300.0 I	Rev 2.1 19	93				
Pace Project No.:	92521	583											
Project:	YATES	5 AMA-R6/AF	P-2										

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## QUALIFIERS

#### Project: YATES AMA-R6/AP-2

Pace Project No.: 92521583

#### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

**RPD** - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

#### ANALYTE QUALIFIERS

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



# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AMA-R6/AP-2 Pace Project No.: 92521583

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521583001	PZ-37 (020921)				
92521583003	YAMW-2 (020921)				
92521583004	YAMW-4 (020921)				
92521583005	YAMW-5 (020921)				
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Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

March 05, 2021

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

RE: Project: YATES AMA-R6/AP-2 RADS Pace Project No.: 92521572

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 10, 2021 and February 11, 2021. 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,

Karalany

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR Lauren Coker, Georgia Pwer Geoffrey Gay, ARCADIS - Atlanta Kristen Jurinko Kelley Sharpe, ARCADIS - Atlanta Alex Simpson, Arcadis Samantha Thomas Maribel Vital





Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

### CERTIFICATIONS

Project: YATES AMA-R6/AP-2 RADS Pace Project No.: 92521572

#### 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 #: 9526 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 AMA-R6/AP-2 RADS

Pace Project No.: 92521572

t No ·	92521572	

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92521572001	PZ-37 (020921)	Water	02/09/21 09:30	02/10/21 17:10
92521572003	YAMW-2 (020921)	Water	02/09/21 12:45	02/10/21 17:10
92521572004	YAMW-4 (020921)	Water	02/09/21 10:20	02/10/21 17:10
92521572005	YAMW-5 (020921)	Water	02/09/21 09:45	02/10/21 17:10
92521572006	YAMW-1 (020921)	Water	02/09/21 14:10	02/10/21 17:10
92521572007	PZ-35(021021)	Water	02/10/21 16:15	02/11/21 13:03



# SAMPLE ANALYTE COUNT

Project: YATES AMA-R6/AP-2 RADS

Pace Project No.: 92521572

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92521572001	PZ-37 (020921)	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521572003	YAMW-2 (020921)	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521572004	YAMW-4 (020921)	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521572005	YAMW-5 (020921)	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521572006	YAMW-1 (020921)	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521572007	PZ-35(021021)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg



# SUMMARY OF DETECTION

Project: YATES AMA-R6/AP-2 RADS

Pace Project No.: 92521572

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521572001	PZ-37 (020921)					
EPA 9315	Radium-226	0.561 ± 0.213 (0.207)	pCi/L		03/02/21 11:26	
EPA 9320	Radium-228	C:68% T:NA 0.955 ± 0.451 (0.768) C:76%	pCi/L		02/24/21 15:31	
Total Radium Calculation	Total Radium	T:88% 1.52 ± 0.664 (0.975)	pCi/L		03/02/21 16:35	
92521572003	YAMW-2 (020921)					
EPA 9315	Radium-226	0.112 ± 0.123 (0.249) C-83% T.NA	pCi/L		03/02/21 11:24	
EPA 9320	Radium-228	0.380 ± 0.425 (0.891) C:73% T84%	pCi/L		02/24/21 15:31	
Total Radium Calculation	Total Radium	0.492 ± 0.548 (1.14)	pCi/L		03/02/21 16:35	
92521572004	YAMW-4 (020921)					
EPA 9315	Radium-226	0.186 ± 0.126 (0.202) C:81% TNA	pCi/L		03/02/21 11:23	
EPA 9320	Radium-228	0.473 ± 0.414 (0.837) C:72% T86%	pCi/L		02/24/21 15:31	
Total Radium Calculation	Total Radium	0.659 ± 0.540 (1.04)	pCi/L		03/02/21 16:35	
92521572005	YAMW-5 (020921)					
EPA 9315	Radium-226	0.405 ± 0.214 (0.350)	pCi/L		03/01/21 19:11	
EPA 9320	Radium-228	C:78% 1:NA 0.664 ± 0.477 (0.936) C:73%	pCi/L		02/24/21 15:32	
Total Radium Calculation	Total Radium	1:84% 1.07 ± 0.691 (1.29)	pCi/L		03/02/21 16:39	



# SUMMARY OF DETECTION

Project: YATES AMA-R6/AP-2 RADS

Pace Project No.: 92521572

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521572006	YAMW-1 (020921)					
EPA 9315	Radium-226	0.159 ± 0.136 (0.251) C:76% T:NA	pCi/L		03/02/21 07:34	
EPA 9320	Radium-228	0.707 ± 0.491 (0.957) C:71% T:83%	pCi/L		02/24/21 15:32	
Total Radium Calculation	Total Radium	0.866 ± 0.627 (1.21)	pCi/L		03/02/21 16:39	
92521572007	PZ-35(021021)					
EPA 9315	Radium-226	0.0238 ± 0.0799 (0.201) C:92% T:NA	pCi/L		03/05/21 07:14	
EPA 9320	Radium-228	0.522 ± 0.370 (0.721) C:76% T:97%	pCi/L		02/24/21 15:32	
Total Radium Calculation	Total Radium	0.546 ± 0.450 (0.922)	pCi/L		03/05/21 14:01	



Project: YATES AMA-R6/AP-2 RADS

Pace Project No.: 92521572

Sample: PZ-37 (020921)	Lab ID: 9252157	2001 Collected: 02/09/21 09:30	Received:	02/10/21 17:10 N	Aatrix: Water	
1 100.	One iD.	oumpie Type.				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.561 ± 0.213 (0.207) C:68% T:NA	pCi/L	03/02/21 11:26	13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	0.955 ± 0.451 (0.768) C:76% T:88%	pCi/L	02/24/21 15:31	15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	1.52 ± 0.664 (0.975)	pCi/L	03/02/21 16:35	7440-14-4	



Project: YATES AMA-R6/AP-2 RADS

Pace Project No.: 92521572

<b>Sample: YAMW-2 (020921)</b> PWS:	Lab ID: 9252157 Site ID:	2003 Collected: 02/09/21 12:45 Sample Type:	Received:	02/10/21 17:10 M	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				-
Radium-226	EPA 9315	0.112 ± 0.123 (0.249) C:83% T:NA	pCi/L	03/02/21 11:24	13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	0.380 ± 0.425 (0.891) C:73% T:84%	pCi/L	02/24/21 15:31	15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	0.492 ± 0.548 (1.14)	pCi/L	03/02/21 16:35	7440-14-4	



Project: YATES AMA-R6/AP-2 RADS

Pace Project No.: 92521572

Sample: YAMW-4 (020921) PWS:	Lab ID: 9252157 Site ID:	72004 Collected: 02/09/21 10:20 Sample Type:	Received:	02/10/21 17:10 N	Aatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	rvices - Greensburg				
Radium-226	EPA 9315	0.186 ± 0.126 (0.202) C:81% T:NA	pCi/L	03/02/21 11:23	13982-63-3	
	Pace Analytical Se	rvices - Greensburg				
Radium-228	EPA 9320	0.473 ± 0.414 (0.837) C:72% T:86%	pCi/L	02/24/21 15:31	15262-20-1	
	Pace Analytical Se	rvices - Greensburg				
Total Radium	Total Radium Calculation	0.659 ± 0.540 (1.04)	pCi/L	03/02/21 16:35	7440-14-4	



Project: YATES AMA-R6/AP-2 RADS

Pace Project No.: 92521572

Sample: YAMW-5 (020921) PWS:	Lab ID: 9252157 Site ID:	2005 Collected: 02/09/21 09:45 Sample Type:	Received:	02/10/21 17:10 N	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg			_	
Radium-226	EPA 9315	0.405 ± 0.214 (0.350) C:78% T:NA	pCi/L	03/01/21 19:11	13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	0.664 ± 0.477 (0.936) C:73% T:84%	pCi/L	02/24/21 15:32	15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	1.07 ± 0.691 (1.29)	pCi/L	03/02/21 16:39	7440-14-4	



Project: YATES AMA-R6/AP-2 RADS

Pace Project No.: 92521572

Sample: YAMW-1 (020921) PWS:	Lab ID: 9252157 Site ID:	2006 Collected: 02/09/21 14:10 Sample Type:	Received:	02/10/21 17:10 M	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.159 ± 0.136 (0.251) C:76% T:NA	pCi/L	03/02/21 07:34	13982-63-3	
	Pace Analytical Service	vices - Greensburg				
Radium-228	EPA 9320	0.707 ± 0.491 (0.957) C:71% T:83%	pCi/L	02/24/21 15:32	15262-20-1	
	Pace Analytical Service	vices - Greensburg				
Total Radium	Total Radium Calculation	0.866 ± 0.627 (1.21)	pCi/L	03/02/21 16:39	7440-14-4	



Project: YATES AMA-R6/AP-2 RADS

Pace Project No.: 92521572

Sample: PZ-35(021021)	Lab ID: 9252157	2007 Collected: 02/10/21 16:15	Received:	02/11/21 13:03 M	Aatrix: Water	
PWS:	Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.0238 ± 0.0799 (0.201) C:92% T:NA	pCi/L	03/05/21 07:14	13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	0.522 ± 0.370 (0.721) C:76% T:97%	pCi/L	02/24/21 15:32	15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	0.546 ± 0.450 (0.922)	pCi/L	03/05/21 14:01	7440-14-4	



## **QUALITY CONTROL - RADIOCHEMISTRY**

Project:	YATES AMA-R6/AP-2 RAD	DS				
Pace Project No.:	92521572					
QC Batch:	435459	Analysis Method:	EPA 9315			
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radiu	um		
		Laboratory:	Pace Analytical	Services - Greensburg	g	
Associated Lab Sam	ples: 92521572001, 925	21572003, 92521572004, 9252157200	5, 92521572006			
METHOD BLANK:	2102227	Matrix: Water				
Associated Lab Sam	ples: 92521572001, 925	21572003, 92521572004, 9252157200	5, 92521572006			
Param	eter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-226	0.276 ±	0.140 (0.180) C:89% T:NA	pCi/L	03/02/21 07:53		

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 AMA-R6/A	P-2 RADS					
Pace Project No.:	92521572						
QC Batch:	435781	A	nalysis Method:	EPA 9315			
QC Batch Method:	EPA 9315	A	nalysis Description:	9315 Total Radiu	Im		
		L	aboratory:	Pace Analytical S	Services - Greensbur	g	
Associated Lab San	nples: 92521572	007					
METHOD BLANK:	2103737		Matrix: Water				
Associated Lab San	nples: 92521572	007					
Paran	neter	Act ± Unc (MD	OC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-226		0.0349 ± 0.0874 (0.210	) C:95% T:NA	pCi/L	03/05/21 07:14		

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 AMA-R6/AP-2 RAD	S				
Pace Project No.:	92521572					
QC Batch:	435116	Analysis Method:	EPA 9320			
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 22	28		
		Laboratory:	Pace Analytical	Services - Greensbur	g	
Associated Lab Sam	ples: 92521572001, 925	21572003, 92521572004, 9252157200	5, 92521572006,	92521572007		
METHOD BLANK:	2100680	Matrix: Water				
Associated Lab Sam	ples: 92521572001, 925	21572003, 92521572004, 9252157200	5, 92521572006, 9	92521572007		
Param	ieter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-228	0.356 ±	0.369 (0.763) C:72% T:87%	pCi/L	02/24/21 15:29		

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 AMA-R6/AP-2 RADS

Pace Project No.: 92521572

#### 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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.



# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:YATES AMA-R6/AP-2 RADSPace Project No.:92521572

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521572001	PZ-37 (020921)	EPA 9315	435459		
92521572003	YAMW-2 (020921)	EPA 9315	435459		
92521572004	YAMW-4 (020921)	EPA 9315	435459		
92521572005	YAMW-5 (020921)	EPA 9315	435459		
92521572006	YAMW-1 (020921)	EPA 9315	435459		
92521572007	PZ-35(021021)	EPA 9315	435781		
92521572001	PZ-37 (020921)	EPA 9320	435116		
92521572003	YAMW-2 (020921)	EPA 9320	435116		
92521572004	YAMW-4 (020921)	EPA 9320	435116		
92521572005	YAMW-5 (020921)	EPA 9320	435116		
92521572006	YAMW-1 (020921)	EPA 9320	435116		
92521572007	PZ-35(021021)	EPA 9320	435116		
92521572001	PZ-37 (020921)	Total Radium Calculation	436928		
92521572003	YAMW-2 (020921)	Total Radium Calculation	436928		
92521572004	YAMW-4 (020921)	Total Radium Calculation	436928		
92521572005	YAMW-5 (020921)	Total Radium Calculation	436930		
92521572006	YAMW-1 (020921)	Total Radium Calculation	436930		
92521572007	PZ-35(021021)	Total Radium Calculation	437456		

n n	Document Name: Sample Condition Linon Resolution	+(50112)	Document Revised: October 28, 2020 Page 1 of 2	
Pace Analytical	Document No -	(PCON)	issuing Authority:	
	F-CAR-C5-033-Rev.07		Pace Carolinas Quality Office	
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mometer:			Yes No N/A	
[] IR Gun ID: 230	Type of ice:	Blue	None	
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samples originate in a quarantine zone within the Yes No	e United States: CA, NY, or SC (check n	naps)? Did inch	samples originate from a foreign source (internationally, iding Hawali and Puerto Rico)? Yes No Comments/Discrepancy:	
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Containers Intact?		7.		
Dissolved analysis: Samples Field Filtered?		8.		
Sample Labels Match COC?		9.		-,-,
-Includes Date/Time/ID/Analysis Matrix:		<b>_</b>		
Headspace in VOA Vials (>5-6mm)?		10.		
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PACE Analytical Services Ra-228 Analysis

Face Analytical

# Quality Control Sample Performance Assessment

MS/MSD 2

MS/MSD 1

Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:

Sample Collection Date:

Sample Matrix Spike Control Assessment

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)

Analyst Must Manually Enter All Fields Highlighted in Yellow.

		Y LLCSD58877 3/2/2021 19-033 24,040 0.10 0.10 0.10 0.501 4.798
Ra-226 J.Y 2/19/2021 58877 DW	2102227 0.276 0.134 0.134 0.180 4.05 N/A See Comment*	LCSD (Y or N)? LCS58877 3/2/2021 3/2/2021 24.040 0.10 0.10 0.502 4.789
Test Analyst Date: Worklist Matrix:	sment MB Sample ID MB Councentration: M/B Counting Uncertainty: MB Numerical Performance Indicator: MB Status vs Numerical Indicator: MB Status vs MDC:	sample Assessment Count Date Spike 1.D.: Spike 2.D.: Spike 2.D.: Spike 2.D.: Spike 2.D.: Spike 2.D.: Spike 2.D.: Aliquot Volume (L. g, F): Target Cont. (2.D.(1, g, F): Target Contron. (2.D.(1, g, F):
of Anna	Method Blank Asses	Laboratory Control S De

Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	92520873006DUP	13.77%	(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:
Duplicate Numerical Performance Indicator	92520873006	1.742	Duplicate Numerical Performance Indicator:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F).		8	Are sample and/or duplicate results below RL?
Sample Matrix Spike Duplicate Result		0.517	Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):
Matrix Spike Result Counting Uncertainty (pCi/L, g, F)	the space below.	4.626	Sample Duplicate Result (pCi/L, g, F):
Sample Matrix Spike Result	LCS/LCSD in	0.555	Sample Result Counting Uncertainty (pCi/L, g, F):
Sample MSD I.D.	other than	5.300	Sample Result (pCi/L, g, F):
Sample MS I.D.	sample IDs if	LCSD58877	Duplicate Sample I.D.
Sample I.D.	Enter Duplicate	LCS58877	Sample I.D.:
Matrix Spike/Matrix Spike Duplicate Sample Assessment			Duplicate Sample Assessment
MS/MSD Lower % Recovery Limits:	75%	75%	Lower % Recovery Limits:
MSD Status vs Recovery	Pass	Pass	Status vs Recovery:
MS Status vs Recovery.	N/A	N/A	Status vs Numerical Indicator.
MSD Status vs Numerical Indicator	96.42%	110.67%	Percent Recovery:
MS Status vs Numerical Indicator:	-0.65	1.80	Numerical Performance Indicator:
MSD Percent Recovery:	0.517	0.555	LCS/LCSD Counting Uncertainty (pCi/L, g, F):
MS Percent Recovery	4.626	5.300	Result (pCi/l., g, F):
MSD Numerical Performance Indicator	0.058	0.057	Uncertainty (Calculated):
MS Numerical Performance Indicator.	4.798	4.789	Target Conc. (pCi/L, g, F):
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.501	0.502	Aliquot Volume (L, g, F):
Sample Matrix Spike Duplicate Result	0.10	0.10	Volume Used (mL):
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	24.040	24.040	Decay Corrected Spike Concentration (pCi/mL):
Sample Matrix Spike Result	19-033	19-033	Spike 1.D.:
Sample Result Counting Uncertainty (pCi/L, g, F):	3/2/2021	3/2/2021	Count Date:
Sample Result	LCSD58877	LCS58877	
MSD Spike Uncertainty (calculated):	٢	LCSD (Y or N)?	Laboratory Control Sample Assessment

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

N/A Pass 25%

Duplicate Status vs Numerical Indicator:

Duplicate Status vs RPD: % RPD Limit

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

Comments:

"The method blank result is below the reporting limit for this analysis and is acceptable

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PACE Analytical Services Ra-228 Analysis

Quality C	control Sa	mple Pei	formance Assessment		
Pace Analytical			Analyst Must Manually Enter All Fields Highlighted in	Yellow.	
Test	Ra-226				
Analyst	رال 2/19/2021		Sample Matrix Spike Control Assessment Sample Collection Date:	MS/MSD 1	MS/MSD 2
Worklist Matrix:	58877 DW		Sample I.D. Sample MS I.D. Sample MSD I.D.		
Method Blank Assessment			Spike I.D.:		
MB concentration	2102227 0.276		MS/MSD Decay Corrected Spike Concentration (pCl/mL): Spike Volume Used in MS (mL):⊡		
M/B Counting Uncertainty:	0.134		Spike Volume Used in MSD (mL): MS Alianon (1 2 EV)		
MB Numerical Performance Indicator:	4.05		MS Target Conc. (pC/L, g, F):		
MB Status vs Numerical Indicator: MB Status vs. MDC:	N/A See Comment*		MSD Target Conc. (pCI/L, g, F); MSD Target Conc. (pCI/L, g, F);		
			MS Spike Uncertainty (calculated):		
Laboratory Control Sample Assessment	LCSD (Y or N)?	z	MSD Spike Uncertainty (calculated):		
	LCS58877	LCSD58877	Sample Result		
Solike I.D.:	3/2/2/12 1 19-033		Sample result Counting Uncertainty (point, 9, r). Sample Matrix Spike Result		
Decay Corrected Spike Concentration (pCi/mL):	24.040		Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Volume Used (mL):	0.10		Sample Matrix Spike Duplicate Result		
Aliquot Volume (t. g. r.): Target Conc. (nCi/L. g. F):	0.502		wattix opike pupilcate result counting uncertainty (puert, g, r ); MS Numerical Performance Indicator;		
Uncertainty (Calculated):	0.057		MSD Numerical Performance Indicator		
Result (pCi/L, g, F):	5.300		MS Percent Recovery:		
LCS/LCSD Counting Uncertainty (pCi/L, g, F): Numerical Performance Indicator	0.555		MSD Percent Recovery: MS Status vs Numerical Indicator:		
Percent Recovery:	110.67%		MSD Status vs Numerical Indicator:		·
Status vs Numerical Indicator:	A/N		MS Status vs Recovery:		
Status vs Recovery:	Pass		MSD Status vs Recovery.		
Upper % Recovery Limits: Lower % Recovery Limits:	75%		MS/MSD Lopper % Recovery Limits: MS/MSD Lower % Recovery Limits:		
Duplicate Sample Assessment			Matrix Spike/Matrix Spike Duplicate Sample Assessment		-
Sample I.D.:	92520873006	Enter Duplicate	Sample I.D.		
Duplicate Sample I.D. Samole Result (nCi/I o F):	925208/3006DUP	other than	Sample MS I.D. Sample MSD I.D.		
Sample Result Counting Uncertainty (pCi/L, g, F):	0.140	LCS/LCSD in	Sample Matrix Spike Result:		
Sample Duplicate Result (pCi/L, g, F):	0.006	he space below.	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Duplicate Result Counting Uncertainty (pCvRL, g, r.); Are sample and/or duplicate results below RL?	Cee Below #		Matrix Spike Duplicate Result Counting Uncertainty (pCiVL, g. F.):		
Duplicate Numerical Performance Indicator. Duvicate DDD:	1.924 1.924 185 80%	92520873006	Duplicate Numerical Performance Indicator: (Research the Dercent Recoveries) MS/ MSD Duplicate RPD-		
Duplicate Status vs Numerical Indicator	N/N		MS/ MSD Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD: & point init-	Failter	And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	MS/ MSD Duplicate Status vs RPD:		
	e 27 %				
## Evaluation of duplicate precision is not applicable if either the s	sample or duplicate re	sults are below th	e MDC.		

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Comments: "The method blank result is below the reporting limit for this analysis and is acceptable.
Pace Analytical

# **Quality Control Sample Performance Assessment**

		D 1 MS/MSD 2																																					
<u>Analyst Must Manually Enter All Fields Highlighted in Yellow.</u>		Sample Matrix Spike Control Assessment Sample Collection Date:	Sample 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. o. F):	MS Target Conc.(pCi/L, g, F):	MSD Aliquot (L, g, F):	MSD Target Conc. (pCi/L, g, F):	MS Spike Uncertainty (calculated):	INISU Spike Unicertaining (calculated);		oanpie Result 4 olgma Cou (powL, g, r); Samnle Matrix Snike Result	Matrix Spike Result 2 Sigma CSU (pCi/L, q, 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/MSD1 rower % 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 off dis relating the provided and puppicate AFD)	MOV MOULD LUDINGIC STATUS VS NUTIFICATIFICATION,	WO THE CONTRACT CONTRACT STATUS STATUS
												ļ	1.005	LU2U36831	21-003	38.698	0.10	0.821	4.711	0.231	5,382	1.179	1.09	114.23%	A/N	Pass	135%		Enter Duplicate	sample IDs if	other than	LCS/LCSD in	the space below.						
	Ka-228	VAL 2/22/2021	58851 WT			2100680	0.356	0.369	1.89	Pass	Pass			LC00001	21-003	38,698	0.10	0.813	4.759	0.233	4.358	1.031	-0.74	91.58%	A/N	Pass	135% 60%		LCS58851	LCSD58851	4.358	1.031	5.382	1,179	DN 200	1.281	0410-27 Daee	Doce	36%
		Analysc Date:	Worklist		Method Blank Assessment	MB Sample ID	MB concentration:	MIB 2 SIGMB CSU: MB MDC:	MB Numerical Performance indicator:	MB Status vs Numerical Indicator:	MB Status vs. MDC:	ahoratoar Cantal Samala Accession			Spike I.D.:	Decay Corrected Spike Concentration (pCi/mi.);	Volume Used (ml.):	Aliquot Volume (L, g, F);	Target Conc. (pCi/L, g, F):	Uncertainty (Calculated):	Result (pCi/L, g, F):	LCS/LCSD 2 Sigma CSU (pCi/L, g, F);	Numencal Performance Indicator	Percent Recovery:	Status vs Numerical Indicator	Status vs Recovery:	Upper % Recovery Limits: Lower % Recovery Limits:	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/	Puppicate Numerical Peromance Indicator: //Based on the LOS/LOS/LOS/LDBreat Deconder/Dunitode DDD-	Cosed on the ECONTOUR Florent Incounties) Duplicate NED.	Depicate Ocacus Variational Indicate Indicator.	% RPD Limit

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Comments:

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



March 19, 2021

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

RE: Project: YATES R6/AMA RADS Pace Project No.: 92521564

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on February 10, 2021. 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,

Karalin ya

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR Lauren Coker, Georgia Pwer Geoffrey Gay, ARCADIS - Atlanta Kristen Jurinko Kelley Sharpe, ARCADIS - Atlanta Alex Simpson, Arcadis Samantha Thomas Maribel Vital





### CERTIFICATIONS

Project: YATES R6/AMA RADS Pace Project No.: 92521564

### 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 #: 9526 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 R6/AMA RADS Pace Project No.: 92521564

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92521564001	YGWC-38 (020921)	Water	02/09/21 13:50	02/10/21 17:10
92521564002	YGWC-41 (021021)	Water	02/10/21 13:25	02/10/21 17:10
92521564003	YGWC-42 (021021)	Water	02/10/21 14:30	02/10/21 17:10
92521564004	YGWC-43 (020921)	Water	02/09/21 15:30	02/10/21 17:10
92521564005	EB-01(021021)	Water	02/10/21 13:30	02/10/21 17:10
92521564006	YGWC-23S (020921)	Water	02/09/21 11:10	02/10/21 17:10
92521564007	YGWC-49 (020921)	Water	02/09/21 15:15	02/10/21 17:10
92521564008	YGWC-24SA (020921)	Water	02/09/21 16:10	02/10/21 17:10
92521564009	DUP-02 (020921)	Water	02/09/21 00:00	02/10/21 17:10
92521564010	YGWC-36A (021021)	Water	02/10/21 14:30	02/10/21 17:10
92521564011	YGWC-38 (020921) MS	Water	02/09/21 13:50	02/10/21 17:10
92521564012	YGWC-38 (020921) MSD	Water	02/09/21 13:50	02/10/21 17:10



# SAMPLE ANALYTE COUNT

Project: YATES R6/AMA RADS

Pace Project No.: 92521564

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92521564001	 YGWC-38 (020921)	EPA 9315		1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521564002	YGWC-41 (021021)	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521564003	YGWC-42 (021021)	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521564004	YGWC-43 (020921)	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92521564005	EB-01(021021)	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521564006	YGWC-23S (020921)	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521564007	YGWC-49 (020921)	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521564008	YGWC-24SA (020921)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92521564009	DUP-02 (020921)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92521564010	YGWC-36A (021021)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92521564011	YGWC-38 (020921) MS	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92521564012	YGWC-38 (020921) MSD	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg



# SUMMARY OF DETECTION

Project: YATES R6/AMA RADS

Pace Project No.: 92521564

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521564001	YGWC-38 (020921)					
EPA 9315	Radium-226	0.302 ± 0.160 (0.232)	pCi/L		03/05/21 07:44	
EPA 9320	Radium-228	C:89% 1:NA 0.320 ± 0.348 (0.724) C:80%	pCi/L		02/26/21 14:46	
Total Radium Calculation	Total Radium	1:82% 0.626 ± 0.580 (1.07)	pCi/L		03/05/21 14:01	
92521564002	YGWC-41 (021021)					
EPA 9315	Radium-226	0.124 ± 0.136 (0.280) C:87% T:NA	pCi/L		03/05/21 07:44	
EPA 9320	Radium-228	0.424 ± 0.338 (0.664) C:76% T:88%	pCi/L		02/26/21 14:46	
Total Radium Calculation	Total Radium	0.548 ± 0.474 (0.944)	pCi/L		03/05/21 14:01	
92521564003	YGWC-42 (021021)					
EPA 9315	Radium-226	0.259 ± 0.201 (0.383) C:79% T:NA	pCi/L		03/05/21 07:44	
EPA 9320	Radium-228	0.353 ± 0.350 (0.718) C:75% T:85%	pCi/L		02/26/21 14:46	
Total Radium Calculation	Total Radium	0.612 ± 0.551 (1.10)	pCi/L		03/05/21 14:01	
92521564004	YGWC-43 (020921)					
EPA 9315	Radium-226	4.91 ± 0.852 (0.170) C:88% T:NA	pCi/L		03/18/21 10:30	
EPA 9320	Radium-228	1.47 ± 0.584 (0.904) C:73% T:74%	pCi/L		02/26/21 14:46	
Total Radium Calculation	Total Radium	6.38 ± 1.44 (1.07)	pCi/L		03/18/21 14:07	



# SUMMARY OF DETECTION

Project: YATES R6/AMA RADS

Pace Project No.: 92521564

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521564005	EB-01(021021)					
EPA 9315	Radium-226	0.0250 ± 0.103 (0.259)	pCi/L		03/05/21 07:45	
EPA 9320	Radium-228	C:88% T:NA 0.699 ± 0.416 (0.774) C:77%	pCi/L		02/26/21 14:46	
Total Radium Calculation	Total Radium	T:86% 0.724 ± 0.519 (1.03)	pCi/L		03/05/21 14:01	
92521564006	YGWC-23S (020921)					
EPA 9315	Radium-226	0.0999 ± 0.121 (0.250) C:78% T:NA	pCi/L		03/05/21 07:38	
EPA 9320	Radium-228	0.364 ± 0.363 (0.747) C:76% T.82%	pCi/L		02/26/21 14:46	
Total Radium Calculation	Total Radium	0.464 ± 0.484 (0.997)	pCi/L		03/05/21 14:01	
92521564007	YGWC-49 (020921)					
EPA 9315	Radium-226	0.137 ± 0.130 (0.248) C:77% T:NA	pCi/L		03/05/21 07:38	
EPA 9320	Radium-228	-0.0900 ± 0.330 (0.796) C:78% T76%	pCi/L		02/26/21 14:46	
Total Radium Calculation	Total Radium	0.137 ± 0.460 (1.04)	pCi/L		03/05/21 14:01	
92521564008	YGWC-24SA (020921)					
EPA 9315	Radium-226	0.100 ± 0.114 (0.235)	pCi/L		03/08/21 08:35	
EPA 9320	Radium-228	C:90% T:NA 0.578 ± 0.379 (0.729) C:80%	pCi/L		03/02/21 12:34	
Total Radium Calculation	Total Radium	T:84% 0.678 ± 0.493 (0.964)	pCi/L		03/08/21 12:26	



# SUMMARY OF DETECTION

Project: YATES R6/AMA RADS

Pace Project No.: 92521564

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521564009	DUP-02 (020921)					
EPA 9315	Radium-226	0.153 ± 0.130 (0.241) C:86% T:NA	pCi/L		03/08/21 08:35	
EPA 9320	Radium-228	0.310 ± 0.321 (0.666) C:82% T-89%	pCi/L		03/02/21 12:34	
Total Radium Calculation	Total Radium	0.463 ± 0.451 (0.907)	pCi/L		03/08/21 12:26	
92521564010	YGWC-36A (021021)					
EPA 9315	Radium-226	0.0504 ± 0.0936 (0.214) C:80% T:NA	pCi/L		03/08/21 08:32	
EPA 9320	Radium-228	0.416 ± 0.429 (0.893) C:73% T:85%	pCi/L		03/02/21 15:44	
Total Radium Calculation	Total Radium	0.466 ± 0.523 (1.11)	pCi/L		03/08/21 12:26	
92521564011	YGWC-38 (020921) MS					
EPA 9315	Radium-226	95.48 %REC ± NA (NA) C:NA T:NA	pCi/L		03/05/21 07:38	
EPA 9320	Radium-228	101.32 %REC ± NA (NA) C:NA T:NA	pCi/L		02/26/21 14:46	
92521564012	YGWC-38 (020921) MSD					
EPA 9315	Radium-226	100.39 %REC 5.01RPD ± NA (NA) C:NA T:NA	pCi/L		03/05/21 07:38	
EPA 9320	Radium-228	92.73 %REC 8.85 RPD ± NA (NA) C:NA T:NA	pCi/L		02/26/21 14:46	



Project: YATES R6/AMA RADS

Pace Project No.: 92521564

Sample: YGWC-38 (020921) PWS:	Lab ID: 92521564 Site ID:	001 Collected: 02/09/21 13:50 Sample Type:	Received:	02/10/21 17:10 N	Aatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Serv	ices - Greensburg				
Radium-226	EPA 9315	0.302 ± 0.160 (0.232) C:89% T:NA	pCi/L	03/05/21 07:44	13982-63-3	
	Pace Analytical Serv	ices - Greensburg				
Radium-228	EPA 9320	0.320 ± 0.348 (0.724) C:80% T:82%	pCi/L	02/26/21 14:46	15262-20-1	
	Pace Analytical Serv	ices - Greensburg				
Total Radium	Total Radium Calculation	0.626 ± 0.580 (1.07)	pCi/L	03/05/21 14:01	7440-14-4	



Project: YATES R6/AMA RADS

Pace Project No.: 92521564

Sample: YGWC-41 (021021) PWS:	Lab ID: 92521 Site ID:	564002 Collected: 02/10/21 13:25 Sample Type:	Received:	02/10/21 17:10 M	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg				
Radium-226	EPA 9315	0.124 ± 0.136 (0.280) C:87% T:NA	pCi/L	03/05/21 07:44	13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.424 ± 0.338 (0.664) C:76% T:88%	pCi/L	02/26/21 14:46	15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.548 ± 0.474 (0.944)	pCi/L	03/05/21 14:01	7440-14-4	



Project: YATES R6/AMA RADS

Pace Project No.: 92521564

<b>Sample: YGWC-42 (021021)</b> PWS:	Lab ID: 9252156 Site ID:	4003 Collected: 02/10/21 14:30 Sample Type:	Received:	02/10/21 17:10 M	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.259 ± 0.201 (0.383) C:79% T:NA	pCi/L	03/05/21 07:44	13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	0.353 ± 0.350 (0.718) C:75% T:85%	pCi/L	02/26/21 14:46	15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	0.612 ± 0.551 (1.10)	pCi/L	03/05/21 14:01	7440-14-4	



Project: YATES R6/AMA RADS

Pace Project No.: 92521564

<b>Sample: YGWC-43 (020921)</b> PWS:	Lab ID: 92521564 Site ID:	Collected: 02/09/21 15:30 Sample Type:	Received:	02/10/21 17:10 M	Aatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Serv	vices - Greensburg				
Radium-226	EPA 9315	4.91 ± 0.852 (0.170) C:88% T:NA	pCi/L	03/18/21 10:30	13982-63-3	
	Pace Analytical Serv	rices - Greensburg				
Radium-228	EPA 9320	1.47 ± 0.584 (0.904) C:73% T:74%	pCi/L	02/26/21 14:46	15262-20-1	
	Pace Analytical Serv	rices - Greensburg				
Total Radium	Total Radium Calculation	6.38 ± 1.44 (1.07)	pCi/L	03/18/21 14:07	7440-14-4	



Project: YATES R6/AMA RADS

Pace Project No.: 92521564

Sample: EB-01(021021)	Lab ID: 925215	64005 Collected: 02/10/21 13:30 Sample Type:	Received:	02/10/21 17:10 N	latrix: Water	
-						
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	rvices - Greensburg				
Radium-226	EPA 9315	0.0250 ± 0.103 (0.259) C:88% T:NA	pCi/L	03/05/21 07:45	13982-63-3	
	Pace Analytical Se	rvices - Greensburg				
Radium-228	EPA 9320	0.699 ± 0.416 (0.774) C:77% T:86%	pCi/L	02/26/21 14:46	15262-20-1	
	Pace Analytical Se	rvices - Greensburg				
Total Radium	Total Radium Calculation	0.724 ± 0.519 (1.03)	pCi/L	03/05/21 14:01	7440-14-4	



Project: YATES R6/AMA RADS

Pace Project No.: 92521564

Sample: YGWC-23S (020921) PWS:	Lab ID: 9252156 Site ID:	<b>4006</b> Collected: 02/09/21 11:10 Sample Type:	Received:	02/10/21 17:10 M	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	rvices - Greensburg				
Radium-226	EPA 9315	0.0999 ± 0.121 (0.250) C:78% T:NA	pCi/L	03/05/21 07:38	13982-63-3	
	Pace Analytical Se	rvices - Greensburg				
Radium-228	EPA 9320	0.364 ± 0.363 (0.747) C:76% T:82%	pCi/L	02/26/21 14:46	15262-20-1	
	Pace Analytical Se	rvices - Greensburg				
Total Radium	Total Radium Calculation	0.464 ± 0.484 (0.997)	pCi/L	03/05/21 14:01	7440-14-4	



Project: YATES R6/AMA RADS

Pace Project No.: 92521564

Sample: YGWC-49 (020921) PWS:	Lab ID: 9252156 Site ID:	64007 Collected: 02/09/21 15:15 Sample Type:	Received:	02/10/21 17:10 M	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	rvices - Greensburg				
Radium-226	EPA 9315	0.137 ± 0.130 (0.248) C:77% T:NA	pCi/L	03/05/21 07:38	13982-63-3	
	Pace Analytical Ser	rvices - Greensburg				
Radium-228	EPA 9320	-0.0900 ± 0.330 (0.796) C:78% T:76%	pCi/L	02/26/21 14:46	15262-20-1	
	Pace Analytical Ser	rvices - Greensburg				
Total Radium	Total Radium Calculation	0.137 ± 0.460 (1.04)	pCi/L	03/05/21 14:01	7440-14-4	



Project: YATES R6/AMA RADS

Pace Project No.: 92521564

Sample: YGWC-24SA (020921) PWS:	Lab ID: 9252156 Site ID:	4008 Collected: 02/09/21 16:10 Sample Type:	Received:	02/10/21 17:10 M	fatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.100 ± 0.114 (0.235) C:90% T:NA	pCi/L	03/08/21 08:35	13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	0.578 ± 0.379 (0.729) C:80% T:84%	pCi/L	03/02/21 12:34	15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	0.678 ± 0.493 (0.964)	pCi/L	03/08/21 12:26	7440-14-4	



Project: YATES R6/AMA RADS

Pace Project No.: 92521564

Sample: DUP-02 (020921) PWS:	Lab ID: 92521 Site ID:	564009 Collected: 02/09/21 00:00 Sample Type:	Received:	02/10/21 17:10 M	fatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg				
Radium-226	EPA 9315	0.153 ± 0.130 (0.241) C:86% T:NA	pCi/L	03/08/21 08:35	13982-63-3	
	Pace Analytical S	ervices - Greensburg				
Radium-228	EPA 9320	0.310 ± 0.321 (0.666) C:82% T:89%	pCi/L	03/02/21 12:34	15262-20-1	
	Pace Analytical S	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.463 ± 0.451 (0.907)	pCi/L	03/08/21 12:26	7440-14-4	



Project: YATES R6/AMA RADS

Pace Project No.: 92521564

Sample: YGWC-36A (021021) PWS:	Lab ID: 92521 Site ID:	564010 Collected: 02/10/21 14:30 Sample Type:	Received:	02/10/21 17:10 M	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Gervices - Greensburg				
Radium-226	EPA 9315	0.0504 ± 0.0936 (0.214) C:80% T:NA	pCi/L	03/08/21 08:32	13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.416 ± 0.429 (0.893) C:73% T:85%	pCi/L	03/02/21 15:44	15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.466 ± 0.523 (1.11)	pCi/L	03/08/21 12:26	7440-14-4	



Project: YATES R6/AMA RADS

Pace Project No.: 92521564

Sample: YGWC-38 (020921) MS PWS:	Lab ID: 9252156 Site ID:	4011 Collected: 02/09/21 13:50 Sample Type:	Received:	02/10/21 17:10 M	fatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	95.48 %REC ± NA (NA) C:NA T:NA	pCi/L	03/05/21 07:38	13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	101.32 %REC ± NA (NA) C:NA T:NA	pCi/L	02/26/21 14:46	15262-20-1	



Project: YATES R6/AMA RADS

Pace Project No.: 92521564

Sample: YGWC-38 (020921) MSD PWS:	Lab ID: 9252156 Site ID:	4012 Collected: 02/09/21 13:50 Sample Type:	Received:	02/10/21 17:10 N	Aatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	100.39 %REC 5.01RPD ± NA (NA) C:NA T:NA	pCi/L	03/05/21 07:38	13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	92.73 %REC 8.85 RPD ± NA (NA) C:NA T:NA	pCi/L	02/26/21 14:46	15262-20-1	



Project:	YATES R	6/AMA RADS					
Pace Project No.:	92521564	4					
QC Batch:	435783		Analysis Method:	EPA 9315			
QC Batch Method:	EPA 93	15	Analysis Description:	9315 Total Radi	um		
Laboratory:         Pace Analytical Services - Greensburg           Associated Lab Samples:         92521564001, 92521564002, 92521564003, 92521564004, 92521564005, 92521564006, 92521564007, 92521564011, 92521564012					rg 564007,		
METHOD BLANK:	2103740		Matrix: Water				
Associated Lab San	nples: 9 9	2521564001, 9252156 2521564011, 9252156	4002, 92521564003, 925215640 4012	04, 92521564005, 9	92521564006, 92521	564007,	
Paran	neter	Act	± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-226 0.267 ± 0.14		3 (0.193) C:92% T:NA	pCi/L	03/05/21 07:29			

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 R6/AMA R	YATES R6/AMA RADS					
Pace Project No.:	92521564						
QC Batch:	435786		Analysis Method:	EPA 9315			
QC Batch Method:	C Batch Method: EPA 9315 Analysis Description: 9315 Total Radium						
			Laboratory:	Pace Analytical	Services - Greensbur	g	
Associated Lab San	nples: 92521564	008, 92521564009	, 92521564010				
METHOD BLANK:	2103744		Matrix: Water				
Associated Lab San	nples: 92521564	008, 92521564009	, 92521564010				
Paran	neter	Act ± Ur	nc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-226		-0.0425 ± 0.0687	(0.225) C:93% T:NA	pCi/L	03/08/21 08:35		

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 R6/AMA RADS						
Pace Project No.:	92521564						
QC Batch:	435787		Analysis Method:	EPA 9320			
QC Batch Method:	EPA 9320		Analysis Description:	9320 Radium 22	28		
			Laboratory:	Pace Analytical	Services - Greensbur	g	
Associated Lab San	nples: 92521564	008, 925215640	09, 92521564010				
METHOD BLANK:	2103745		Matrix: Water				
Associated Lab San	nples: 92521564	008, 925215640	09, 92521564010				
Paran	neter	Act ±	Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-228		0.345 ± 0.339	(0.700) C:84% T:79%	pCi/L	03/02/21 12:33		

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 F	R6/AMA RADS					
Pace Project No.:	9252156	4					
QC Batch:	435784	ļ	Analysis Method:	EPA 9320			
QC Batch Method:	EPA 93	20	Analysis Description:	9320 Radium 22	9320 Radium 228		
Laboratory:         Pace Analytical Services - Greensburg           Associated Lab Samples:         92521564001, 92521564002, 92521564003, 92521564004, 92521564005, 92521564006, 92521564007, 92521564011, 92521564012					rg 564007,		
METHOD BLANK:	2103741		Matrix: Water				
Associated Lab San	nples: §	92521564001, 9252156 92521564011, 9252156	4002, 92521564003, 925215640 4012	04, 92521564005, 9	92521564006, 92521	564007,	
Paran	neter	Ac	t ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-228 0.191 ± 0.33		3 (0.740) C:71% T:85%	pCi/L	02/26/21 11:33			

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 R6/AMA RADS

Pace Project No.: 92521564

### 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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.



# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	YATES R6/AMA RADS
Pace Project No .:	92521564

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521564001	YGWC-38 (020921)	EPA 9315	435783		
92521564002	YGWC-41 (021021)	EPA 9315	435783		
92521564003	YGWC-42 (021021)	EPA 9315	435783		
92521564004	YGWC-43 (020921)	EPA 9315	435783		
92521564005	EB-01(021021)	EPA 9315	435783		
92521564006	YGWC-23S (020921)	EPA 9315	435783		
92521564007	YGWC-49 (020921)	EPA 9315	435783		
92521564008	YGWC-24SA (020921)	EPA 9315	435786		
92521564009	DUP-02 (020921)	EPA 9315	435786		
92521564010	YGWC-36A (021021)	EPA 9315	435786		
92521564011	YGWC-38 (020921) MS	EPA 9315	435783		
92521564012	YGWC-38 (020921) MSD	EPA 9315	435783		
92521564001	YGWC-38 (020921)	EPA 9320	435784		
92521564002	YGWC-41 (021021)	EPA 9320	435784		
92521564003	YGWC-42 (021021)	EPA 9320	435784		
92521564004	YGWC-43 (020921)	EPA 9320	435784		
92521564005	EB-01(021021)	EPA 9320	435784		
92521564006	YGWC-23S (020921)	EPA 9320	435784		
92521564007	YGWC-49 (020921)	EPA 9320	435784		
92521564008	YGWC-24SA (020921)	EPA 9320	435787		
92521564009	DUP-02 (020921)	EPA 9320	435787		
92521564010	YGWC-36A (021021)	EPA 9320	435787		
92521564011	YGWC-38 (020921) MS	EPA 9320	435784		
92521564012	YGWC-38 (020921) MSD	EPA 9320	435784		
92521564001	YGWC-38 (020921)	Total Radium Calculation	437456		
92521564002	YGWC-41 (021021)	Total Radium Calculation	437456		
92521564003	YGWC-42 (021021)	Total Radium Calculation	437456		
92521564004	YGWC-43 (020921)	Total Radium Calculation	439388		
92521564005	EB-01(021021)	Total Radium Calculation	437456		
92521564006	YGWC-23S (020921)	Total Radium Calculation	437456		
92521564007	YGWC-49 (020921)	Total Radium Calculation	437456		
92521564008	YGWC-24SA (020921)	Total Radium Calculation	437634		
92521564009	DUP-02 (020921)	Total Radium Calculation	437634		
92521564010	YGWC-36A (021021)	Total Radium Calculation	437634		

· · ·		Document Name:	Document Revised: October 28, 2020	
	Pace Analytical"	Sample Condition Upon Rece	ot(SCUR) Page 1 of 2	
		Document No.:	Issuing Authority: Pace Carolinas Duality Office	
		1		
Labo	heville Eden Greenwood	d 🛄 Huntersville 🛄 Ral	igh Mechanicsville Atlant	rnersville[]
Sa	ample Condition Client Name:	Pa	Project #: WO# : 9252156	64
Cour	nier:fed Exi CommercialPace	UPS USPS 2 Other:		
Custo	dy Seal Present? Yes 4NO	Seals Intact? 🦾 🔲 Yes 📋	lo Date/initials Person Examining Contents	2/10/21
Packi	ng Material: Bubble Wrap	Bubble Bags None	Other Biological Tissue Frozen?	, .
Thern	nometer:	Twee		
	[] IR Gun ID: ] []	Type of ice:		а.
Coole	r Temp: 2. Add/Subtr	Factor:	Temp should be above freezing to 6°C	
Coole	Temp Corrected ("C):	.(	Samples out of temp criteria. Samples on ic	e, cooling process
USDA	Regulated Soil ( 🛄 N/A, water sample)			
Did sa F	mples originate in a quarantine zone within th Type: The	he United States: CA, NY, or SC (chec	maps)? Did samples originate from a foreign source (inter Including Hawall and Puerto Rico)? Types	nationaliy, No
Ľ			Comments/Discrepancy:	
	Chain of Custody Present?		1	
	Samples Arrived within Hold Time?	Eres INO IN/	2.	-
	Short Hold Time Analysis (<72 hr.)?		3.	
	Rush Turn Around Time Requested?		4.	
	Sufficient Volume?	No N/	5.	
- í	Correct Containers Used?		6.	
-	-Pace Containers Useur			
·	Containers Intact?		0	
ŀ	Dissolved analysis: Samples Field Hiltered /		a. (	•
	Sample Labels Match COCF			
	-Includes Date/Time/ID/Analysis Matrix:			
: F	• Headsnace in VOA Vials (>5-6mm)?		10.	
	Trip Blank Present?		11.	
	Trip Blank Custody Seals Present?			
. CC	DMMENTS/SAMPLE DISCREPANCY		Field Data Required?	Yes No
		· · · · · · · · · · · · · · · · · · ·		
		······································	Lot ID of split containers:	
CLIE	ENT NOTIFICATION/RESOLUTION			
				<u> </u>
•	· · ·			
Pe	erson contacted:	Da	e/Time:	
•	Project Manager SCURF Review		Date:	a <sup>1</sup>
			<u></u>	
	Project Manager SRF Review:		Date:	<del></del>
			· , , ,	_

Page 26 of 34

		YANC-235	FR-01/12/1021)	VGWC-43	S YGWC-42	YGWC-41	YGWC-38	Your the second	The vourse of the later	ITEM # Sample Ids must be unique			ME: (770)34+6526 Fax		Iress: 1070 Bridge MRI Ave nbn. CA 30114	mpany: Georgia Power	Ston A standard
s, -	Kate Apprenc	2.4.21 HI		WT 2.7.11 153	M 1012 M	WT (2102) 132	WT 2-9-41 139	ک <del>ررا</del> پر ک	WT 2+03-04	MATRIX CODE (see valid cod SAMPLE TYPE (G=GRAB C D)	Second	irroject #:	Project Name: Vates R6	Punchase Order #:	Copy To:	Report To: Becky Steever	
SER RAME AND BRANTINE AND REAL THAN OF SAMPLER: Y (H)	2 2:10:21 11512			4/1	<u>И</u> Н И/И	5		6		AMPLE TEMP AT COLLECTIC # OF CONTAINERS Unpreserved		Pace Profi	jord soed	Address: Page Quol	Company	trivolos in	The Chain-of-Custody is a 1 Section c
herine Puptier	Cluber Ho									H2SO4 HNO3 HCI NaOH Na2S2O3 Methanol Other	Preservatives	file #: 10840	loct Manager: Levin heminniður		Nane:	Romation:	LEGAL DOCUMENT. Al ref
U)(2 DATE Signed: 2/9/20	nt dial			X X X	x x x x	× × × × ×				App IV Metals Fluoride RAD 9315/9320			toplate com				request bocument evant fields must be comple
TEMP in C Received on	1/0									Residual Chiorine (Y/N)		2		No. of Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street,		Page ;	ted accurately.
IceD (Y/N) Cuslody SealedD CoolerD (Y/N) Semples IntectD (Y/N)		NS @	1	1:5.80	H- Sal S H	Touley Loria			F 12 8	92521564				Marsh .	0	1 Of 3	

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Print Name of St.		John Marine 1		WT	WT	WT	WT	WT	NT ZA ISIS	해 유 값 값 유 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가	and cooper with cooper codes to iait) C = COMP)		Project Name: Yates ANA	Punchase Order #:	Copy To: Becky Steever	Required Project Information:	The	•
Sidn Strem	Clarter House								477	SAMPLE TEMP AT COLLECT # OF CONTAINERS Unpreserved H2804 H1NO3 HCI H20H H282203 Hethanol	Preservatives	Pace Profile #: 10840	Pace Project Managem	Address:	Attention:	Section C	IAIN-OF-CUSTODY / Analyti Chain-of-Custody is a LEGAL DOCUMENT	
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TEMP in C Received on loeCi (Y/N) Cualody Sealed() Cooler() (Y/N) Samples Intact() (Y/N)								++   <del>2H</del> 5.79	Real	idual Chiorine (YAN)	2	A STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF S	States of the second second second second second second second second second second second second second second	0	Page: ~/ Q: V*	action of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco		

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	Samples																		.6.		8		14.14		<b>.</b> I		••
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# **Quality Control Sample Performance Assessment**

/Pace Analytical			<u>Analyst Must Manually Enter All Fields Highlighted in</u>	Yellow.
Test	Ra-226			
Analyst:	MK1		Sample Matrix Spike Control Assessment	MS/MSD 1
Date:	2/26/2021		Sample Collection Date:	2/11/2021
Worklist	58912		Sample 1.D.	92521567009
MIGUIX.	2		Sample MSD I D	92521567016
Method Blank Assessment			Soike I.D.:	19-033
MB Sample ID	2103740		MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.040
MB concentration:	0.267		Spike Volume Used in MS (mL):	0.20
M/B Counting Uncertainty:	0.137		Spike Volume Used in MSD (mL):	0.20
MB MDC:	0.193		MS Aliquot (L, g, F):	0.505
MB Numerical Performance Indicator:	3.81		MS Target Conc.(pCi/L, g, F):	9.519
MB Status vs Numerical Indicator; MB Status vs. MDC;	N/A See Comment*		MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F):	0.508 9.464
		_	MS Spike Uncertainty (calculated):	0,114
Laboratory Control Sample Assessment	-CSD (Y or N)?	z	MSD Spike Uncertainty (calculated):	0.114
	LCS58912	LCSD58912	Sample Result	0.181
Count Date:	3/5/2021		Sample Result Counting Uncertainty (pCi/L, g, F):	0.143
Spike I.D.:	19-033		Sample Matrix Spike Result:	10.375
Decay Corrected Spike Concentration (pCirmL):	24.040		Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	0.765
Volume Used (mL):	0,10		Sample Matrix Spike Duplicate Result:	8.763
Aliquot Volume (L, g, F):	0.508		Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.699
Target Conc. (pCi/L, g, F):	4.733		MS Numerical Performance Indicator.	1.680
Uncertainty (Calculated):	0.057		MSD Numerical Performance Indicator.	-2.392
Result (pCi/L, g, F):	4.870		MS Percent Recovery:	107.09%
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.530		MSD Percent Recovery:	90.68%
Numerical Performance Indicator:	0.50		MS Status vs Numerical Indicator:	N/A
Percent Recovery:	102.88%		MSD Status vs Numerical Indicator:	N/A
Status vs Numerical Indicator.	NA		MS Status vs Recovery:	Pass
Status vs Recovery:	Pass		MSD Status vs Recovery:	Pass
Upper % Recovery Limits:	125%		MS/MSD Upper % Recovery Limits:	125%
	RO		MOMON FOMEL & LECONEL & LECONEL	R.C.
Duplicate Sample Assessment			Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:		Enter Duplicate	Sample I.D.	92521567009
Duplicate Sample I.D.		sample IDs if	Sample MS I.D.	92521567015
Sample Result (pCi/L, g, F):		other than	Sample MSD I.D.	92521567016
Sample Result Counting Uncertainty (pCi/l., g. F):		LCS/LCSD in	Sample Matrix Spike Result:	10.375
Sample Duplicate Result (pCi/L, g, F):		the space below.	Matrix Spike Result Counting Uncertainty (pCi/L, g, F);	0.766
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F);	- - -		Sample Matrix Spike Duplicate Result	8.763
Are sample and/or duplicate results below KL?	Cee Relow #		Matrix Spike Ouplicate Result Counting Uncertainty (pCVL, g, F):	0.699
Duplicate Numerical Performance Indicator			Duplicate Numerical Performance indicator	3.046
Uuplicate KPU:			(Based on the Percent Recoveries) MS/ MSD Uuplicate KPD;	16.60%

MS/MSD 2 2/11/2021

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

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

92521564001 92521564011 92521564012 9.287 9.287 9.288 9.688 0.770 0.770 5.01%

N/A Pass 25%

N/A Pass 25%

MS/ MSD Duplicate Status vs Numerical Indicator: MS/ MSD Duplicate Status vs RPD: MS/ MSD Duplicate Status vs RPD Limit;

Comments:

\*The method blank result is below the reporting limit for this analysis and is acceptable.

UAM315121

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# **Quality Control Sample Performance Assessment**

MS/MSD 2

Yellow.		MS/MSD 1																																							
Analyst Must Manually Enter All Fields Highlighted in		Sample Matrix Spike Control Assessment	Sample Collection Date:	Sample I.D.	Sample MSD I.D.	Spike I.D.:	MS/MSD Decay Corrected Spike Concentration (pCl/mL):	Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL):	WS Aliquot (L, g, F):	MS Target Conc.(pCi/L, g, F):	MSD Aliquot (L, g, F):	MSD Target Conc. (pCi/L, g, F):	MSD Snike Lincertainty (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 (pCl/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 & Decovery Limits:	MOUMOD TOMEL & RECOVERY LINES	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 Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Duplicate Result.	Intaux optics cupicate result country (point, g, r).	Based on the Percent Recoveries) MS/ MSD Dunitrate RPD:	MS/ MSD Dunicate Status vs Numerical Indicator	MS/ MSD Duplicate Status vs RPD:	. % RPD Limit
													>	1 CSD58914	3/8/2021	19-033	24.039	0.10	0.509	4.724	0.057	5.140	0.510	1.59	108.80%	AN	Pass	125%	P/C /		Enter Duplicate	sample IDs if	other than	LCS/LCSD in	the space below.			92521125006DUP			
	Ka-226	LAL	2/26/2021	58914 DW	1		2103744	-0.043 0.068	0.225	-1.22	N/A	Pass	CSD (V or N/2	I CS58914	3/8/2021	19-033	24.039	0.10	0.504	4.770	0.057	4.906	0.508	0.52	102.86%	N/A	Pass	125%	8/11		LCS58914	LCSD58914	4.906	0.508	5.140	0.510	200	-0.03/ 5.61%	N/A	Pass	25%
	lest	Analyst:	Date:	Worklist		Method Blank Assessment	MB Sample ID	MB concentration: MB Concertainty	WB MDC	MB Numerical Performance Indicator:	MB Status vs Numerical Indicator:	MB Status vs. MDC:	l aboratory Control Samula Assessment		Count Date:	Spike I.D.:	Decay Corrected Spike Concentration (pCi/mL):	Volume Used (mL):	Aliquot Volume (L, g, F):	Target Conc. (pC/Å, g, F):	Uncertainty (Calculated):	Result (pCi/L, g, F):	LCS/LCSD Counting Uncertainty (pCi/L, g, F):	Numerical Performance Indicator:	Percent Recovery:	Status vs Numerical Indicator.	Status vs Recovery:	Upper % Recovery Limits:	FOWER / RECOVERY LANDER	Duplicate Sample Assessment	Sample I.D.:	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):	Sample Duplicate Result Counting Uncertainty (pCl/L, g, F):	Are satisfied atturis suppresents below ALS	Uppicate Numerical Percent Recoveries) Diminate RPD- (Based on the I CS/I CSD Percent Recoveries) Diminate RPD-	Dunlicate Status vs Numerical Indicator	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:

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Pace Analytical

# Quality Control Sample Performance Assessment

MS/MSD 2

MS/MSD 1

Yellow.		WSM																																						
Analyst Must Manually Enter All Fields Highlighted in		Sample Matrix Spike Control Assessment	Sample Collection Date:	Sample I.D.	Sample MS 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. (pC/L, g, F): MS Saile Financiale (2014, g, F):	MSD Snike 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):	MSD Numerical Performance Indicator.	MS Percent Recovery:	MSD Percent Recovery:	MS Status vs Numencal Indicator:	MSD Status vs Numerical Indicator:	MS Status vs Recovery:	MSD Status vs Recovery:	MS/MSD Upper % Recovery Limits: MS/MSD I ower % Recovery 1 inits:	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 Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Duplicate Result:	Matrix Spike Duplicate Result Counting Uncertainty (pCI/L, g, F):	Uuplicate Numerical Performance Indicator, (Resert on the Derrient Decouveries) MS/ MSD Duniticate DDD	MS/ MSD Dunlicate Status ve Alumericati Indicator	MS/ MSD Duplicate Status vs RPD:	RPD Limit:
						_								z	LCSD58914															Enter Duplicate	sample IDs if	other than	LCS/LCSD in	the space below.		0050140500	82521125000 B2521125000			
0- 220 0-	Ra-226	LAL	2/26/2021	58914			2103744	-0.043	0.068	0.225	-1.22	A/N	Pass	LCSD (Y or N)?	LCS58914	3/8/2021	19-033	24.039	0.10	0.504	/ 900 \$	4.500	0.5Ug	70'0 001	102.86%	AN 7	Pass	%cZ1		92521125006	92521125006DUP	0.181	0.137	0.027	0.145	See Below ##	147 89%	N/A	Fail	25%
A aver rulary under we was predicted	lest	Analyst	Late:	Worklist	Matrix	Method Blank Assessment	MB Sample (D	MB concentration:	M/B Counting Uncertainty:	MB MDC:	MB Numerical Performance Indicator.	MB Status vs Numerical Indicator:	MB Status vs. MUC:	Laboratory Control Sample Assessment		Count Date:		Decay Corrected Spike Concentration (pCi/mL):	Aoiume Used (mL):	Aliquot Volume (L, g, F): Terraet Cono. / 2011 - 2012			LUSILUSU COUNTING Undertainty (purity, g, F);		Percent Recovery:	Status vs numerical indicator.	Status vs Recovery:	Upper % Recovery Limits; Lower % Recovery Limits;	Duplicate Sample Assessment	Sample I.D.:	Duplicate Sample I.D.	Sample Result (pCi/L, g, F):	Sample Result Counting Uncertainty (pCi/L, g, F):	Sample Duplicate Result (pCl/L, g, F):	Sample Uuplicate Result Counting Uncertainty (pCt/L, g, F):	Are sangre anoror ouplicate results pelow KL? Durdicate Mumorical Domances indicates	tuppicare mutanual renuntance mutanu Diminare RPD-	Duplicate Status vs Numerical Indicator	Duplicate Status vs RPD:	% RPD Limit:

12/3/8/2010 Mich precision. NIA CAM 3/8/2/ d taum dateb must b

sults are below the MDC.

## Evaluation of duplicate precision is not applicable if either the sample or duplicate

Comments:

TAR DW QC Printed: 3/8/2021 11:24 AM

TAR\_58914\_W.xls Totai Alpha Radium (R104-3 11Feb2019).xls



1 of 1

Pace Analytical

# **Quality Control Sample Performance Assessment**

Table:         R.2.28 Rando Libe:         Sample Control Assessment         MMSN 1         Sample Control Assessment         MMSN 1         Sample Control Assessment         MMSN 1         Sample Control Assessment         MMSN 1         Sample Control Assessment         MMSN 1         Sample Control Assessment         MMSN 1         Sample Control Assessment         MMSN 1         Sample Control Assessment         MMSN 1         Sample Control Assessment         MMSN 1         Sample Control Assessment         MMSN 1         Sample Control Assessment         MMSN 1         Sample Control Assessment         MMSN 1         Sample Control Assessment         MMSN 1         Sample Control Assessment         MMSN 1         Sample Control Assessment         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2         MMSN 2 <t< th=""><th>aut ri laiy uuai</th><th></th><th></th><th><u>Analyst Must Manually Enter All Fields Highlighted in</u></th><th>Yellow.</th><th></th></t<>	aut ri laiy uuai			<u>Analyst Must Manually Enter All Fields Highlighted in</u>	Yellow.	
Thight:         Date:         2/24/201         Sample Sile         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 1         MMSD 2         MMSD 1         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2         MMSD 2 <thmsd 2<="" th=""> <thmsd< td=""><td>lest</td><td>Ra-228</td><td></td><td></td><td></td><td></td></thmsd<></thmsd>	lest	Ra-228				
Utal:         2120/21 2023/150/16         Sample ID 2122/150/16         2122/150/16         2223/150/16         2223/150/16         2223/150/16         2223/150/16         2223/150/16         2223/150/16         2223/150/16         2223/150/16         2223/150/16         2223/150/16         2223/150/16         2223/150/16         2223/150/16         2223/150/16         2223/150/16         2223/150/16         2223/150/16         2223/150/16         2223/150/16         2223/150/16         2223/150/16         2223/150/16         2223/150/16         2223/150/16         2223/150/16         2223/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2200/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16         2232/150/16 <td>Analyst</td> <td>VAL</td> <td></td> <td>Sample Matrix Spike Control Assessment</td> <td>MS/MSD 1</td> <td>MS/MSD 2</td>	Analyst	VAL		Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Worldst:     Signal Statistics     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sample MS1(L)     Sampl	Date:	2/24/2021		Sample Collection Date:	2/11/2021	2/9/2021
Sestent         Same No.         State ID:         21003         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         2211001         221001         221001         221001         221001         221001         221001         221001         221001         221001         221001         221001         221001         221001         221001         221001         221001         221001         221001         221001         221001         221001         22101         22101         22101         22101         22101         22101         22101         22101         22101         22101         22101         22101         22101         22101         22101         22101         22101         22101         22101         2210101         2210101         2210101         2210101         221010	Worklist Matrix:	58913 WT		Sample I.D. Sample MS I.D.	92521567009 92521567015	92521564001 92521564011
mscannet         With Sample (D)         2(074)         MSMSD Deery Carrented Splite Concernation (C)(m), 2         2(003)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103)         2(103) <th< td=""><td></td><td></td><td></td><td>Sample MSD I.D.</td><td>92521567016</td><td>92521564012</td></th<>				Sample MSD I.D.	92521567016	92521564012
No.         2103741         MSMSD Deery Corrected Splic Contention (Grint)         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.87         38.8	sessment			Spike I.D.:	21-003	21-003
Wild Somoertandlor:         0.91         Splex Volume Used in M(C)         0.20         0.20           Wild Numerical Performance Indicat:         0.44         0.20         0.20         0.20           Wild Numerical Performance Indicat:         1.11         0.20         0.20         0.20           Wild Numerical Performance Indicat:         1.15         0.41         0.20         0.20           Wild Numerical Performance Indicat:         Person         0.50         0.50         0.50           Mild Numerical Performance Indicat:         Person         0.50         0.50         0.50           Sample Kastis vantumeric (ancluated):         0.473         0.473         0.473         0.473           Sample Kastis Signe Uncentration (contundency (ancluated):         0.473         0.473         0.473         0.473           Sample Kastis Signe Uncentration (contundency (ancluated):         0.473         0.473         0.473         0.473           Volume Used (mil)         0.31         0.412         0.412         0.423         0.412           Wolume Used (mil)         0.32         0.412         0.423         0.412         0.423           Wolume Used (mil)         0.31         0.412         0.412         0.412         0.412         0.412         0.412<	MB Sample ID	2103741		MS/MSD Decay Corrected Spike Concentration (pCi/mL):	38.867	38.867
MB Stands Volmer Landon:         11         MB Stand CU:         0.338         Shiek Volmer (Jai, F):         9500         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.000         9.0000	MB concentration;	0.191		Spike Volume Used in MS (mL):	0.20	0.20
MB Numerical Performance indicator:         1.14         MB Status v. More         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         958         95	M/B 2 Sigma CSU:	0.338		Spike Volume Used in MSD (mL):	0.20	0.20
met numerate retrontanction (notation: 1)     MS Splatu vest Mamerial (notation: 1)     MS Splatu vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)     Sinte vest Mamerial (notation: 1)		0.740			0.80/	0.805
ms sature so numerical modulor     pass     mSS spine Uncertainty (calculator)     0.473     0.471       Simple Assessment     LCSOTY or NY     NS     0.472     0.471       Nil Sample Assessment     Count Date     27650731     1.050 yr NY     0.472     0.471       Simple Assessment     Count Date     27650731     1.050 yr NY     0.472     0.471       Decay Corrected Splite Concentration (Clinculator)     0.10     0.472     0.471       Decay Corrected Splite Concentration (Clinculator)     0.10     0.472     0.471       Decay Corrected Splite Concentration (Clinculator)     0.10     0.473     0.473       Decay Corrected Splite Concentration (Clinculator)     0.10     0.473     0.473       Decay Corrected Splite Concentration (Clinculator)     0.10     0.473     0.473       Decay Corrected Splite Concentration (Clinculator)     0.10     0.116     0.473       Uncertainty Clinculator)     0.10     0.10     0.116     0.125       Uncertainty Clinculator)     0.10     0.116     0.113     0.116       Uncertainty Clinculator)     0.10     0.116     0.125     0.473       Uncertainty Clinculator)     0.10     0.116     0.125     0.473       Uncertainty Clinculator)     0.116     0.116     0.116     0.116	MIS Numerical Performance Indicator.	1.11		MS Target Conc.(pCi/L, g, F):	9.638	9.616
Simple Assessment     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     Cont Date     <	MIS Status vs Numenca: Indicator: MB Status vs MDC:	Pass		MSD Aliquot (L, g, F): MSD Tarret Conc. (nCit) o. E)-	0.804 0.668	0.808
I Sample Assessment         ICSD (Y or N/)         N         NSD Spike Uncertainty (calculated)         0.473         0.473         0.473           Decay Corrected Spike Concentration (pCim):         27:003         27:003         3:349         0.334         0.334           Decay Corrected Spike Concentration (pCim):         27:003         10:10         3:347         0.347         0.347           Decay Corrected Spike Concentration (pCim):         27:003         10:10         3:347         0.10         0.348           Decay Corrected Spike Concentration (pCim):         2:103         0.10         3:348         0.348         0.348           Unortation (pCim):         2:1735         Natrix Spike Bould Science (pCim):         2:1738         0.348           Unortation (pCim):         2:1735         Natrix Spike Bould Science (pCim):         2:1738         0.113           Unortation (pCim):         2:1738         Matrix Spike Bould Science (pCim):         2:1738         0.113           Unortation (pCim):         2:1238         Matrix Spike Bould Science (pCim):         2:1738         0.113           Unortation (pCim):         2:138         Matrix Spike Doubine Result (pCim):         2:138         0.113           Unortation (pCim):         2:138         Matrix Spike Doubine Result (pCim):         2:138		-	_	MSS Spike Encertainty (calculated):	0.472	3.023 0.471
Count Date         LC5505913         LC5505913         LC5505913         LC5505913         LC5505913         Count Date         Sample Result 2 Sigme Scu (pc/L, g, F)         0.801         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.030         0.033         0.033         0.033         0.033         0.033         0.033         0.033         0.033         0.033         0.033         0.033         0.033         0.033         0.033         0.033         0.033         0.033         0.033	ol Sample Assessment	SD (Y or N)?	z	MSD Spike Uncertainty (calculated):	0.474	0.472
Control Date:       2252/2021       Spite ID:       2252/2023       0.346         Solite ID:       36.74       0.103       Sample Matrix Spite Result 2 (spine CSU) (GUL, g. P. 1, 175       0.303       0.346         Volume IL:       0.10       36.74       0.10       34.73       2.016       3.201       3.243         Target Corrected Spike Concentration (pcl/L, g. P. 1, 273       0.11       3.674       3.735       3.432       2.016         Unsertainty Calculation (DCL), g. P. 1, 273       0.341       Matrix Spike Result 2 Sigma CSU (pCL), g. P. 1, 753       1.142         Unsertainty Calculation (DCL), g. P. 1, 233       0.343       Matrix Spike Result 2 Sigma CSU (pCL), g. P. 1, 753       1.013         Numerical Fertomatics Indicator       0.383       0.346       Matrix Spike Result 2 Sigma CSU (pCL), g. P. 1, 753       1.013         Numerical Fertomatics Indicator       1.326       Matrix Spike Result 2 Sigma CSU (pCL), g. P. 1, 753       1.013         Numerical Fertomatics Indicator       1.326       0.346       Matrix Spike Result 2 Sigma SU (pCL), g. P. 1, 753       1.013         Numerical Fertomatics Indicator       1.326       Matrix Spike Diplicate Resourcy       82.536       0.118         Numerical Fertomatics Indicator       1.326       Matrix Spike Diplicate Resourcy       82.5364       0.118      <	-	LCS58913	LCSD58913	Sample Result	0.891	0.320
Decay Corrected Spike (LD::     21-003       Decay Corrected Spike Concentration (GrimL):     8674       And the base (mL):     3674       And the base (mL):     3674       And the base (mL):     3674       And the base (mL):     3674       And the base (mL):     3674       And the base (mL):     3674       And the base (mL):     3674       And the base (mL):     3674       And the base (mL):     3674       And the base (mL):     3674       And the base (mL):     3674       And the base (mL):     3674       And the base (mL):     3674       And the base (mL):     3674       And the base (mL):     3674       And the base (mL):     3674       And the base (mL):     3674       And the base (mL):     3674       And the base (mL):     3674       And the base (mL):     3674       And the base (mL):     3674       And the base (mL):     3674       And the base (mL):     3756       And the base (mL):     3756       And the base (mL):     3756       And the base (mL):     3756       And the base (mL):     3756       And the base (mL):     3756       And the base (mL):     3756	Count Date:	2/26/2021		Sample Result 2 Sigma CSU (pCi/L, g, F):	0.393	0.348
Decay Corrected Splite Concentration (p.C.Im.).     36.574     Matrix Splike Result. Signar CSU (p.C.I., g. F)     1.755     2.018       Aliquot Volume U.s (F)     0.817     0.817     Matrix Splike Duplicate Result. Signar CSU (p.C.I., g. F)     1.733     0.118       Target Concertation (p.C.I., g. F)     0.817     Matrix Splike Duplicate Result. Signar CSU (p.C.I., g. F)     1.733     0.118       Uncertation (p.C.I., g. F)     0.817     Matrix Splike Duplicate Result. Signar CSU (p.C.I., g. F)     1.733     0.118       Uncertation (p.C.I., g. F)     0.833     Matrix Splike Duplicate Result. Signar CSU (p.C.I., g. F)     1.733     0.118       Uncertation (p.C.I., g. F)     0.833     Matrix Splike Duplicate Result. Signar CSU (p.C.I., g. F)     1.733     0.118       Numerical Performance Indicator     1.383     Matrix Splike Duplicate Result. Signar CSU (p.C.I., g. F)     1.733     0.118       Status vs Rocovery     0.132%     MS Status vs Numerical Indicator     9.375%     0.132%       Unper "s Recovery Imfis:     0.935     MS Status vs Rocovery Imfis:     0.935%     9.375%       Unper "s Recovery Imfis:     0.936     0.708     9.375%     9.375%       Unper "s Recovery Imfis:     0.935     MS Status vs Recovery Imfis:     0.936       Unper "s Recovery Imfis:     0.935     MS Status vs Recovery Imfis:     0.936       Unpe	Spike I.D.:	21-003		Sample Matrix Spike Result:	8.855	10.063
Numerical Performance (I, g, F):       0.10       Matrix Spike Duplicate Result S Signare CSU (pical, g, F):       1.733       1.422         Target Conc. (pCil, g, F):       0.817       Matrix Spike Duplicate Result S Signare CSU (pical, g, F):       1.733       1.422         Target Conc. (pCil, g, F):       0.833       Matrix Spike Duplicate Result S Signare CSU (pical, g, F):       1.733       0.116         Result (pCil, g, F):       0.833       MS Numerical Performance Indicator:       1.139       0.773         Numerical Performance Indicator:       0.833       MS Numerical Performance Indicator:       1.339       0.716         Numerical Performance Indicator:       0.13       MS Numerical Performance Indicator:       1.339       0.7733         Numerical Performance Indicator:       0.833       MS Numerical Performance Indicator:       1.339       0.7733         Numerical Performance Indicator:       0.43       MS Numerical Performance Indicator:       1.339       0.7733         Numerical Performance Indicator:       1.123       MS Numerical Performance Indicator:       1.733       0.164         Numerical Performance Indicator:       1.123       MS Status vs Recovery:       1.1333       0.116         Status vs Recovery:       Pass       MS Status vs Recovery:       Pass       Pass         Sample Result (Cil,	Decay Corrected Spike Concentration (pCi/mL):	38.674		Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.785	2.018
Alguot Volume (L, g. F):       0.817       Maturk Spike Undicate Result 25 (pma CSU (pc/L, g. F):       1.733       1.42         Target Cons. (pc/L, g. F):       0.343       Mastrix Spike Undicate Performance Indicator:       1.333       0.118         Uncertainty (Calculated)       0.223       Result 25 (pc/L, g. F):       3.843       101.32%       0.118         Uncertainty (Calculated)       0.232       Miss Numerical Performance Indicator:       1.89       0.138         Numerical Performance Indicator:       1.89       MSD Numerical Performance Indicator:       1.33       0.118         Status vs Numerical Performance Indicator:       1.89       MSD Pricent Recovery:       81.53%       0.118         Status vs Numerical Performance Indicator:       1.89       MSD Numerical Performance Indicator:       1.89       0.133%         Status vs Numerical Performance Indicator:       1.89       MSD Status vs Recovery:       82.553%       0.118         Status vs Numerical Performance Indicator:       1.89       MSD Status vs Recovery:       82.5515%       0.118         Status vs Numerical Performance Indicator:       1.89       MSD Status vs Numerical Performance Indicator:       1.895       0.118         Assessment       Sample I.D:       0.97       MSD Status vs Numerical Performance Indicator:       1.835       0.97	Volume Used (mL):	0.10		Sample Matrix Spike Duplicate Result:	8.720	9.243
Target Conc. (pc/ld. g. F):     4.733     mission (cold., g. F):     4.733     mission (cold., g. F):     4.733       Unretical Fernance Indicator:     0.323     MSD Numerical Performance Indicator:     -1.738     0.118       Unretical Fernance Indicator:     0.835     MSD Numerical Fernance Indicator:     -1.339     0.1708       Numerical Fernance Indicator:     1.898     MSD Numerical Indicator:     90%     92.73%       Numerical Fernance Indicator:     1.398     MSD Status vs Recovery:     82.53%     01.32%       Status vs Recovery:     81.20%     MSD Status vs Recovery:     82.53%     01.32%       Upper %, Recovery Limits:     135%     MSD Status vs Recovery:     92.537564011       Sample Nation     0.05%     90%     90%       Duplicate Sample I.D.     Sample I.D.     90%     90%       Sample I.D.     Sample I.D.     90%     90%     90%       Sample I.D.     Sample Rout (pC/l, g, F):     10.057(19)     92251564011       Sample I.D.     Sample I.D.     90%     90%     90%       Sample I.D.     Sample Rout (pC/l, g, F):     10.65%     90%     90%       Sample I.D.     Sample Rout (pC/l, g, F):     10.65%     90%     90%       Sample Rout (pC/l, g, F):     10.55%     90%     90%     90% </td <td>Aliquot Votume (L, g, F):</td> <td>0.817</td> <td></td> <td>Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):</td> <td>1.753</td> <td>1.842</td>	Aliquot Votume (L, g, F):	0.817		Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.753	1.842
Undertainty (calculated):     0.232     MSD Numerical Performance Indicator:     1.339     0.709       Retainty (calculated):     0.383     10132%     0.394     0.738     0.132%       Numerical Indicator:     1.89     Numerical Indicator:     7.833     10132%       Numerical Indicator:     1.89     MSD Percent Recovery:     80.39%     97.35%       Numerical Indicator:     1.89     MSD Percent Recovery:     80.39%     97.35%       Numerical Indicator:     1.93     MSD Percent Recovery:     80.39%     97.35%       Numerical Indicator:     1.89     MSD Status vs Numerical Indicator:     7.339     97.35%       Status vs Recovery Limits:     60%     0.709     97.35%     97.35%     97.35%       Upper % Recovery Limits:     60%     MSD ND Duper % Recovery Limits:     97.9     97.35%       Sample I.D:     Sample I.D:     Sample Result (pCit, g, F):     97.35%     95.456       Sample Result (pCit, g, F):     Sample Result (pCit, g, F):     97.25564011     92.2521664011       Sample Result 2 Sigma SU (pCit, g, F):     Sample RASI (pCit, g, F):     97.66     90.66%       Sample Result 2 Sigma SU (pCit, g, F):     1.78     92.251664011     92.251664011       Sample Result 2 Sigma SU (pCit, g, F):     1.78     1.785     1.942	Target Conc. (pCi/L, g, F):	4.733		MS Numerical Performance Indicator:	-1.738	0.118
LCSALCSD 2 Signe sout (pC/L, g, F):       3.843       mS Percent Recovery:       22.63%       101.32%         Numerical Performance Indicator:       0.893       MS Status vs Numerical Indicator:       9.237%       9.273%         Numerical Performance Indicator:       1.89       MS Status vs Numerical Indicator:       Pass       9.273%         Numerical Performance Indicator:       1.80       MS Status vs Numerical Indicator:       Pass       9.273%         Numerical Performance Indicator:       NA       MS Status vs Recovery:       9.273%       9.273%         Status vs Recovery:       1.35%       MS Status vs Recovery:       9.273%       9.273%         Upper % Recovery Limits:       1.35%       MS/MSD Lower % Recovery Limits:       1.35%       1.35%         Lower % Recovery Limits:       1.35%       MS/MSD Lower % Recovery Limits:       1.35%       1.35%         Lower % Recovery Limits:       1.35%       MS/MSD Lower % Recovery Limits:       1.35%       1.35%         Assessment       Sample ND       Sample Matrix Spike Result       9.2757167016       9.2251564011         Sample Result (pC/L, g, F):       Sample ND       9.2251564011       9.2251564011       9.22521564011         Sample Result (pC/L, g, F):       Sample ND       9.2251564011       9.22521564011       9.22521564	Uncertainty (Calculated):	0.232		MSD Numerical Performance Indicator:	-1.939	-0.709
LCSALCSO 2 Sigma CSU (pc/il, g, F):       0.893       WIS Detcart Recovery:       0.803       92.73%         Numerical Perconnarce Indicator:       1.89       MS Status vs Numerical Indicator:       Pass       Pass         Numerical Perconnarce Indicator:       1.89       MS Status vs Numerical Indicator:       Pass       Pass         Status vs Recovery:       NAS       Status vs Recovery:       Pass       Pass       Pass         Upper % Recovery Limits:       60%       60%       60%       60%       60%         Assessment       Sample I.D:       Erfler Ouplicate Sample I.D:       Sample Result (pc/u, g, F):       005       60%       60%       60%         Sample Result (pc/u, g, F):       Duplicate Result (pc/u, g, F):       Close Result (pc/u, g, F):       005       92271564001       92271564001         Sample Result (pc/u, g, F):       Sample Result (pc/u, g, F):       Close Result (pc/u, g, F):       00%       92271564001         Sample Result (pc/u, g, F):       Duplicate Result (pc/u, g, F):       Sample Matrix Spike Duplicate Result       92521564001       92521564001         Sample Result (pc/u, g, F):       Duplicate Result (pc/u, g, F):       1.756       92521564001       92521564001         Sample Numerical Indicator:       Sample Matrix Spike Duplicate Result       92571654001	Result (pCi/L, g, F);	3.843		MS Percent Recovery:	82.63%	101.32%
Numerical Performance Indicator:     -1.89     MS Status vs Numerical Indicator:     Pass Pass Pass Pass Pass Pass Pass Pass	LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.893		MSD Percent Recovery:	80.99%	92.73%
Status vs Numerical Indicator:       MSD Status vs Numerical Indicator:       Pass Pass Pass Pass MSD Status vs Recovery:       Pass Pass Pass Pass Pass Pass Pass Pass	Numerical Performance Indicator	-1.89		MS Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:       NA       MS Status vs Recovery:       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass       Pass	Percent Recovery:	81.20%		MSD Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:       Pass       Pass       Pass       Pass       Pass         Upper % Recovery: Liower % Recovery: Links:       133%       0%       60%       60%         Lower % Recovery: Links:       135%       135%       60%       60%         Assessment       Sample I.D.:       00%       60%       60%         Duplicate Sample I.D.:       Sample I.D.:       Enter Duplicate       Sample I.D.:       92521564001         Sample Result pockl., g, F):       Sample NSD Lower % Recovery Links:       135%       135%       60%         Sample Result pockl., g, F):       Sample NSD Lioner than       Matrix Spike Duplicate Sample MSD Lioner than       92521564001       92521564001         Sample NSD Lioner than       Sample NSD Lioner than       Matrix Spike Result 2 Sigma CSU (pc/l., g, F):       92521564012       92521564011         Sample NSD Lioner than       COKL., g, F):       LCSALCSD in       Sample MSD Lioner MSD Lioner than       92521564011       92521564011         Sample NSD Roupicate Result pockl., g, F):       LCSALCSD in       Matrix Spike Result 2 Sigma CSU (pc/l., g, F):       92521564011       92521564011         Sample NSD Roupicate Result 2 Sigma CSU (pc/l., g, F):       LCSALCSD in       92521564011       92521564011       92521564011         Sample NSD Roupicate Result 2 Sigma C	Status vs Numerical Indicator:	A/A		MS Status vs Recovery:	Pass	Pass
Upber % Recovery Limits:       135%       135%       135%       135%       135%       135%       135%       135%       135%       135%       135%       135%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60%       60% <td>Status vs Recovery:</td> <td>Pass</td> <td></td> <td>MSD Status vs Recovery:</td> <td>Pass</td> <td>Pass</td>	Status vs Recovery:	Pass		MSD Status vs Recovery:	Pass	Pass
Assessment       Sample I.D.:       Enter Duplicate       Matrix Spike/Matrix Spike Duplicate Sample Assessment       Sample I.D.:       Sample I.D.:       Sample I.D.:       Sample I.D.:       Sample I.D.:       Sample I.D.:       Sample I.D.:       Sample I.D.:       Sample I.D.:       Sample I.D.:       Sample I.D.:       Sample I.D.:       Sample I.D.:       Sample I.D.:       Sample I.D.:       Sample I.D.:       Sample I.D.:       Sample I.D.:       Sample I.D.:       Sample I.D.:       S2521564011       S2521564011       S2521564011       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521564012       S2521	Upper % Recovery Limits: Lower % Recovery Limits:	130% 60%		MS/MS/J Upper % Recovery Limits: MS/MS/J I ower % Recovery Limits-	1.35%	135% 60%
Assessment       Matrix Spike/Matrix Spike Duplicate Sample I.D.       Sample I.D.       S252156401         Duplicate Sample I.D.       Sample I.D.       Sample I.D.       S252156401       9252156401         Duplicate Sample I.D.       Sample I.D.       Sample MS.I.D.       9252156401       9252156401         Sample Result (pC/L, g. F)       Sample IDs if       Sample MS.I.D.       9252156401       9252156401         Sample Result (pC/L, g. F)       Sample MS.I.D.       9252156401       9252156401       9252156401         Sample Result (pC/L, g. F)       sample MS.I.D.       9252156401       9252156401       9252156401         Sample Result (pC/L, g. F)       tite space below       Matrix Spike Result 2 Sigma CSU (pC/L, g. F)       10.063       10.063         Are sample andor duplicate Result (pC/L, g. F)       Upplicate Result 2 Sigma CSU (pC/L, g. F)       1.753       1.82         Duplicate Result 2 Sigma CSU (pC/L, g. F)       Duplicate Result 2 Sigma CSU (pC/L, g. F)       1.753       1.82         Are sample andor duplicate Result 2 Sigma CSU (pC/L, g. F)       1.753       1.785       1.785         Duplicate Numerical Performance Indicator:       Duplicate Result 2 Sigma CSU (pC/L, g. F)       1.785       1.82         Duplicate Status vs Numerical Indicator:       Duplicate Status vs Numerical Indicator:       0.105       9.2						
Sample LD:       Enter Duplicate       Sample LD.       92521564001       92521564001         Duplicate Sample LD:       Sample ND.       92521567015       92521564011       92521564011         Sample Result (pCi/t, g, F):       Sample ND.       92521567015       92521564011       92521564011         Sample ND:       Sample ND.       92521567015       92521564011       92521564011       92521564011         Sample ND:       Sample ND:       92521567015       92521564012       92521564012       92521564012         Sample ND:       Sample ND:       Sample MSD ID.       92521567016       92521564012       92521564012         Sample ND:       Sample ND:       Sample MSD ID.       92521567016       92521564012       92521564012         MD:       Sample Duplicate Result (pCi/t, g, F):       LCSALCSD in       Matrix Spike Result 2 Sigma CSU (pCi/t, g, F):       10.063       9.243         Are sample and/or duplicate Result 2 Sigma CSU (pCi/t, g, F):       Natrix Spike Result 2 Sigma CSU (pCi/t, g, F):       1.753       1.872         Duplicate Numerical Performance Indicator:       Duplicate Result 2 Sigma CSU (pCi/t, g, F):       1.783       1.872         Duplicate Status vs Numerical Indicator:       Duplicate Result 2 Sigma CSU (pCi/t, g, F):       1.773       1.872         Duplicate Status vs Numeric	Assessment			Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Duplicate Sample (LD.     Sample ID: if     Sample MS I.D.     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521567015     92521564012     926912     92616     92616     92616     926164012     92616     92521564012     92521564012     92616     92616     92616     92616     92521564012     92616     92616     92616     92616     92616     92616     92616     92616	Sample I.D.:		Enter Duplicate	Sample I.D.	92521567009	92521564001
Sample Result (pCi/t, g, F):     other than     Sample WSD I.D.     92521567016     92521564012       Sample Result (pCi/t, g, F):     LCSALCSD in     Natrix Spike Result 2 Sigma CSU (pCi/t, g, F):     10.063       Sample Duplicate Result 2 Sigma CSU (pCi/t, g, F):     the space below.     Matrix Spike Result 2 Sigma CSU (pCi/t, g, F):     1785     2.018       Mole Duplicate Result 2 Sigma CSU (pCi/t, g, F):     the space below.     Matrix Spike Result 2 Sigma CSU (pCi/t, g, F):     1.785     2.018       Mole Duplicate Result 2 Sigma CSU (pCi/t, g, F):     the space below.     Matrix Spike Result 2 Sigma CSU (pCi/t, g, F):     1.785     2.018       Molicate Result 2 Sigma CSU (pCi/t, g, F):     the space below.     Matrix Spike Result 2 Sigma CSU (pCi/t, g, F):     1.785     2.018       Duplicate Numerical Performance Indicator:     Duplicate Result 2 Sigma CSU (pCi/t, g, F):     0.568     9.243       Duplicate Status vs Numerical Indicator:     Duplicate Status vs ND:     0.105     9.243       Duplicate Status vs ND:     Duplicate Status vs ND:     0.105     9.243       Matrix Spike Duplicate Status vs ND:     the result 2 Sigma CSU (pCi/t, g, F):     0.768       Duplicate Status vs ND:     Duplicate Status vs ND:     0.105     9.243       Duplicate Status vs ND:     Duplicate Status vs ND:     0.705     9.243	Duplicate Sample I.D.		sample IDs if	Sample MS I.D.	92521567015	92521564011
Sample Result 2 Sigma CSU (pCi/l, g, F):     LCSALCSD in LCSALCSD in Sample Matrix Spike Result 2 Sigma CSU (pCi/l, g, F):     8.855     10.063       Sample Duplicate Result 2 Sigma CSU (pCi/l, g, F):     1.785     2.018       Matrix Spike Duplicate Result 2 Sigma CSU (pCi/l, g, F):     1.785     2.018       Are sample and/or duplicate result 2 Sigma CSU (pCi/l, g, F):     1.785     3.43       Are sample and/or duplicate result 2 Sigma CSU (pCi/l, g, F):     1.753     1.842       Are sample and/or duplicate result 2 Sigma CSU (pCi/l, g, F):     0.105     9.243       Are sample and/or duplicate result 2 Sigma CSU (pCi/l, g, F):     0.105     9.243       Are sample and/or duplicate Result 2 Sigma CSU (pCi/l, g, F):     0.105     9.243       Are sample and/or duplicate Result 2 Sigma CSU (pCi/l, g, F):     0.105     9.243       Are sample and/or duplicate Result 2 Sigma CSU (pCi/l, g, F):     0.105     9.243       Are sample and/or duplicate Result 2 Sigma CSU (pCi/l, g, F):     0.105     9.243       Are sample and/or duplicate Result 2 Sigma CSU (pCi/l, g, F):     0.105     9.243       Are sample and/or duplicate Result 2 Sigma CSU (pCi/l, g, F):     0.105     9.243       Are sample and/or duplicate Result 2 Sigma CSU (pCi/l, g, F):     0.105     9.243       Are sample and/or duplicate Result 2 Sigma CSU (pCi/l, g, F):     0.105     9.243       Are sample and/or duplicate Result 2 Sigma CSU (pCi/l,	Sample Result (pCi/L, g, F):		other than	Sample MSD I.D.	92521567016	92521564012
Sample Duplicate Result (pCi/t, g, F):       the space below.       Matrix Spike Result 2 Sigma CSU (pCi/t, g, F):       1.785       2.018         mole Duplicate Result 2 Sigma CSU (pCi/t, g, F):       5.178       9.243         Are sample and/or duplicate results below RL?       See Below ##       Matrix Spike Duplicate Result 2 Sigma CSU (pCi/t, g, F):       1.753       1.423         Are sample and/or duplicate results below RL?       See Below ##       Matrix Spike Duplicate Result 2 Sigma CSU (pCi/t, g, F):       1.753       1.842         Duplicate Network       Duplicate Result 2 Sigma CSU (pCi/t, g, F):       0.105       0.588       0.588         Duplicate Numerical Performance Indicator:       Duplicate Result 2 Sigma CSU (pCi/t, g, F):       1.753       1.842         Duplicate Result 2 Sigma CSU (pCi/t, g, F):       0.105       0.588       0.588         Duplicate Result 2 Sigma CSU (pCi/t, g, F):       0.105       0.588       0.588         Duplicate Result 2 Sigma CSU (pci/t, g, F):       0.105       0.588       0.588         Duplicate Result 2 Sigma CSU (pci/t, g, F):       0.105       0.588       0.588         Duplicate Result 2 Sigma CSU (pci/t, g, F):       0.105       0.588       0.588         Duplicate Result 2 Sigma CSU (pci/t, g, F):       0.105       0.588       0.588         Duplicate Result 2 Sigma CSU (pci/t, g,	Sample Result 2 Sigma CSU (pCi/L, g, F):		LCS/LCSD in	Sample Matrix Spike Result:	8.855	10.063
mole Duplicate Result 2 Sigma CSU (pCi/l, g, F):     9.243       Are sample and/or duplicate Result 2 Sigma CSU (pCi/l, g, F):     1.753       Are sample and/or duplicate results below KL?     See Below ##       Duplicate Numerical Performance Indicator:     0.105       Duplicate Numerical Indicator:     0.105       Duplicate Status vs Numerical Indicator:     2.01%       Bublicate Status vs Numerical Indicator:     2.01%       Duplicate Status vs Numerical Indicator:     2.01%       Duplicate Status vs Numerical Indicator:     0.105	Sample Duplicate Result (pCi/L, g, F);		the space below.	Matrix Spike Result 2 Sigma CSU (pCi/d, g, F);	1.785	2.018
Are sample and/or duplicate results below RL? See Below ## Matrix Spike Duplicate Result 2 Sigma CSU (pC/if. g. F): 1.753 1 1842 Duplicate Numerical Performance indicator: 0.105 0.588 (Based on the Percent Recoveries) MS/ MSD Duplicate Resolut 2.01% 8.85% MS/ MSD Duplicate Status vs Numerical Indicator: Pass Pass Pass vs Duplicate Status vs PDD: Pass Pass Pass Pass Pass Pass Pass Pas	nple Duplicate Result 2 Sigma CSU (pCi/L, g, F):			Sample Matrix Spike Duplicate Result:	8.720	9.243
Duplicate Numerical Performance Indicator:     0.105     0.588       Duplicate Numerical Performance Indicator:     0.105     0.588       Duplicate RPD:     Duplicate RPD:     2.01%     8.85%       Duplicate Status vs Numerical Indicator:     MS/ MSD Duplicate Status vs Numerical Indicator:     Pass     Pass       Duplicate Status vs Numerical Indicator:     Duplicate Status vs Numerical Indicator:     Pass     Pass     Pass	Are sample and/or duplicate results below RL?	See Below #		Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.753	1,842
Duplicate RPD:     2.01%     8.85%       Duplicate Status vs Numerical Indicator:     MS/ MSD Duplicate Status vs Numerical Indicator:     Pass       Pass     Pass     Pass       Publicate Status vs ND     Pass     Pass	Duplicate Numerical Performance Indicator:			Duplicate Numerical Performance Indicator:	0.105	0.588
Duplicate Status vs Numerical Indicator:         Pass         Pass         Pass           Duplicate Status vs RD:         MS/ MSD Duplicate Status vs RD:         Pass         Pass	Duplicate RPD:			(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	2.01%	8.85%
Unplicate Status vs RPD: Pass Pass V Duplicate Status vs RPD: Pass Pass Pass Pass Pass Pass Pass Pas	Duplicate Status vs Numerical Indicator:			MS/ MSD Duplicate Status vs Numerical Indicator:	Pass	Pass
	Duplicate Status vs KPU:			MS/ MSD Duplicate Status vs RPD:	Pass	Pass

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

Comments:

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Della Contraction

Pace Analytical

# **Quality Control Sample Performance Assessment**

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	CUSPA/SPA	4																																		
Yellow.	MS/MSD 1																																			
<u>Analyst Must Manually Enter All Fields Highlighted in</u>	Samole Matrix Snike Control Assessment	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 #1 #3U (#L): MS Aliquot (L, g, F):	MS Target Conc.(pCi/L, g, F):	MSD Aliquot (L, g, F); MSD Tarret Conc. (nCi/L o, E);	MS Spike Uncertainty (calculated):	MSD Spike Uncertainty (calculated);	Sample Result:	Sample Result 2 Sigma CSU (pCi/l, g, F):	Matrix Soike Result 2 Sigma CSU (oCi/o. F):	Sample Matrix Spike Duplicate Result:	Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		MSD Numencal 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):	oangre waara opixe Duminate Result 3 Simma CSH (nCi/) - n F)-	Dunicate 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:
											Y	LCSD58915	3/2/2021 21-003	38.623	0.10	0.819	4.710	0.231 3.747	0.834	-2.20	79.42%	N/A	Pass	135%	27.00		Enter Duplicate	sample IDs if	other than	LCS/LCSD in	the space below.					
000 000	VAI	2/24/2021	58915 WT		2103745	0.345	0.700	1.99	Pass		LCSD (Y or N)?	LCS58915	3/2/2021 21-003	38.623	0.10	0.808	4.701	U.234 4.284	0.952	-0.99	89.60%	N/A	Pass	135% 60%			LCS58915	LCSD58915	4.284	0.952	3.747		0.832	12.05%	Pass	Pass 36%
Tool	Analvst	Date:	Worklist: Matrix:	lethod Blank Assessment	MB Sample ID	MB concentration:		MB Numerical Performance Indicator:	MB Status vs Nurmericai Indicator: MB Status vs MDC:		aboratory Control Sample Assessment		Count Date:	Decay Corrected Spike Concentration (pCl/mL);	Volume Used (mt):	Aliquot Volume (L, g, F):		Uncertainty (Calculated):  Result (pCi/L. o. F):	LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	Numerical Performance Indicator	Percent Recovery:	Status vs Numerical Indicator:	Status vs Recovery:	Upper % Recovery Limits:		uplicate 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);	odrighe trupivare result & orgina ever (pevel, y, i ), i Are sample and/or diminate results helow RI ?	Duplicate Numerical Performance Indicator:	(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	Duplicate Status vs Numerical Indicator:	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:

J'ss'

Ra-228 NELAC DW2 Printed: 3/3/2021 6:44 AM

UNIT



March 11, 2021

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

RE: Project: YATES AMA RADS Pace Project No.: 92521568

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 10, 2021 and February 12, 2021. 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,

Karaling

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR Lauren Coker, Georgia Pwer Geoffrey Gay, ARCADIS - Atlanta Kristen Jurinko Kelley Sharpe, ARCADIS - Atlanta Alex Simpson, Arcadis Samantha Thomas Maribel Vital




Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

#### CERTIFICATIONS

Project: YATES AMA RADS Pace Project No.: 92521568

#### 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 #: 9526 Washington Certification #: C868 West Virginia DEP Certification #: 143 West Virginia DHHR Certification #: 9964C Wisconsin Approve List for Rad Wyoming Certification #: 8TMS-L



Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

### SAMPLE SUMMARY

Project: YATES AMA RADS

Pace Project No.: 92521568

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92521568001	YGWA-5D (020821)	Water	02/08/21 16:45	02/10/21 17:10
92521568002	DUP-01(020821)	Water	02/08/21 00:00	02/10/21 17:10
92521568003	YGWA-5I (020821)	Water	02/08/21 16:20	02/10/21 17:10
92521568004	YGWA-39 (021021)	Water	02/10/21 09:30	02/10/21 17:10
92521568005	YGWA-40 (021021)	Water	02/10/21 10:50	02/10/21 17:10
92521568006	FB-01(021021)	Water	02/10/21 11:05	02/10/21 17:10
92521568007	YGWA-20S (020921)	Water	02/09/21 16:50	02/10/21 17:10
92521568008	YGWA-4I(020921)	Water	02/09/21 09:50	02/10/21 17:10
92521568009	YGWA-17S(020921)	Water	02/09/21 11:15	02/10/21 17:10
92521568010	YGWA-18S(020921)	Water	02/09/21 13:25	02/10/21 17:10
92521568011	YGWA-18I(020921)	Water	02/09/21 14:00	02/10/21 17:10
92521568012	YGWA-21I(020921)	Water	02/09/21 16:10	02/10/21 17:10
92521568013	YGWA-3I(021021)	Water	02/10/21 16:40	02/11/21 13:03
92521568014	YGWA-3D(021021)	Water	02/10/21 17:25	02/11/21 13:03
92521568015	YGWA-30I(021121)	Water	02/11/21 09:50	02/11/21 13:03
92521568016	FB-01(021121)	Water	02/11/21 10:00	02/11/21 13:03
92521568017	EB-01(021121)	Water	02/11/21 12:05	02/11/21 13:03
92521568018	YGWA-40 (021021) MS	Water	02/10/21 10:50	02/10/21 17:10
92521568019	YGWA-40 (021021) MSD	Water	02/10/21 10:50	02/10/21 17:10
92521567001	EB-02 (021021)	Water	02/10/21 11:30	02/10/21 17:10
92521567003	DUP-1 (021021)	Water	02/10/21 00:00	02/10/21 17:10
92521567002	YGWA-14S (021021)	Water	02/10/21 08:50	02/10/21 17:10
92521567010	YGWA-1I (021221)	Water	02/12/21 13:20	02/12/21 17:10
92521567011	YGWA-1D (021221)	Water	02/12/21 11:55	02/12/21 17:10
92521567017	YGWA-1D (021221) MS	Water	02/12/21 11:55	02/12/21 17:10
92521567018	YGWA-1D (021221) MSD	Water	02/12/21 11:55	02/12/21 17:10
92521572002	YGWA-2I(021021)	Water	02/10/21 12:40	02/10/21 17:10



### SAMPLE ANALYTE COUNT

Project: YATES AMA RADS Pace Project No.: 92521568

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92521568001	YGWA-5D (020821)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568002	DUP-01(020821)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568003	YGWA-5I (020821)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568004	YGWA-39 (021021)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568005	YGWA-40 (021021)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568006	FB-01(021021)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568007	YGWA-20S (020921)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568008	YGWA-4I(020921)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568009	YGWA-17S(020921)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568010	YGWA-18S(020921)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568011	YGWA-18I(020921)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568012	YGWA-21I(020921)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568013	YGWA-3I(021021)	EPA 9315	LAL	1	PASI-PA



# SAMPLE ANALYTE COUNT

Project: YATES AMA RADS

Pace Project No.: 92521568

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568014	YGWA-3D(021021)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568015	YGWA-30I(021121)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568016	FB-01(021121)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568017	EB-01(021121)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568018	YGWA-40 (021021) MS	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92521568019	YGWA-40 (021021) MSD	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92521567001	EB-02 (021021)	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521567003	DUP-1 (021021)	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521567002	YGWA-14S (021021)	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521567010	YGWA-1I (021221)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92521567011	YGWA-1D (021221)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92521567017	YGWA-1D (021221) MS	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92521567018	YGWA-1D (021221) MSD	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA



### SAMPLE ANALYTE COUNT

Project: YATES AMA RADS Pace Project No.: 92521568

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92521572002	YGWA-2I(021021)	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg



Project: YATES AMA RADS

Pace Project No.: 92521568

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521568001	YGWA-5D (020821)					
EPA 9315	Radium-226	2.30 ± 0.514 (0.306)	pCi/L		03/05/21 07:15	
EPA 9320	Radium-228	C:89% T:NA 0.591 ± 0.501 (1.00) C:79%	pCi/L		03/01/21 16:19	
Total Radium Calculation	Total Radium	T:67% 2.89 ± 1.02 (1.31)	pCi/L		03/05/21 14:00	
92521568002	DUP-01(020821)					
EPA 9315	Radium-226	0.171 ± 0.133 (0.235) C <sup>.</sup> 92% TNA	pCi/L		03/05/21 07:15	
EPA 9320	Radium-228	0.0142 ± 0.351 (0.815) C:80%	pCi/L		03/01/21 16:19	
Total Radium Calculation	Total Radium	0.185 ± 0.484 (1.05)	pCi/L		03/05/21 14:00	
92521568003	YGWA-5I (020821)					
EPA 9315	Radium-226	0.476 ± 0.249 (0.427) C <sup>.</sup> 90% TNA	pCi/L		03/05/21 07:15	
EPA 9320	Radium-228	0.137 ± 0.351 (0.783) C:82% T:79%	pCi/L		03/01/21 16:19	
Total Radium Calculation	Total Radium	0.613 ± 0.600 (1.21)	pCi/L		03/05/21 14:00	
92521568004	YGWA-39 (021021)					
EPA 9315	Radium-226	0.363 ± 0.187 (0.306) C <sup>.</sup> 96% TNA	pCi/L		03/05/21 07:15	
EPA 9320	Radium-228	0.155 ± 0.298 (0.655) C:87% T:90%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.518 ± 0.485 (0.961)	pCi/L		03/05/21 14:00	



Project: YATES AMA RADS

Pace Project No.: 92521568

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521568005	YGWA-40 (021021)					
EPA 9315	Radium-226	0.346 ± 0.178 (0.255)	pCi/L		03/05/21 07:15	
EPA 9320	Radium-228	C:93% 1:NA 0.437 ± 0.487 (1.02) C:90%	pCi/L		03/01/21 16:19	
Total Radium Calculation	Total Radium	0.783 ± 0.665 (1.28)	pCi/L		03/05/21 14:00	
92521568006	FB-01(021021)					
EPA 9315	Radium-226	0.0756 ± 0.104 (0.217) C:87% T:NA	pCi/L		03/05/21 07:15	
EPA 9320	Radium-228	0.0378 ± 0.302 (0.696) C:86% T:83%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.113 ± 0.406 (0.913)	pCi/L		03/05/21 14:00	
92521568007	YGWA-20S (020921)					
EPA 9315	Radium-226	0.0222 ± 0.0899 (0.230) C:94% T:NA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	0.262 ± 0.354 (0.756) C:84% T:79%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.284 ± 0.444 (0.986)	pCi/L		03/05/21 14:00	
92521568008	YGWA-4I(020921)					
EPA 9315	Radium-226	0.492 ± 0.201 (0.224)	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	0.134 ± 0.379 (0.848) C:84% T:78%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.626 ± 0.580 (1.07)	pCi/L		03/05/21 14:00	



Project: YATES AMA RADS

Pace Project No.: 92521568

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521568009	YGWA-17S(020921)					
EPA 9315	Radium-226	0.0845 ± 0.101 (0.203)	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	C:86% T:NA 0.444 ± 0.512 (1.08) C:89%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	T:63% 0.529 ± 0.613 (1.28)	pCi/L		03/05/21 14:00	
92521568010	YGWA-18S(020921)					
EPA 9315	Radium-226	0.0536 ± 0.0925 (0.208)	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	0.205 ± 0.313 (0.676) C:82% T:78%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.259 ± 0.406 (0.884)	pCi/L		03/05/21 14:00	
92521568011	YGWA-18I(020921)					
EPA 9315	Radium-226	0.147 ± 0.123 (0.217) C <sup>.</sup> 89% T.NA	pCi/L		03/05/21 07:48	
EPA 9320	Radium-228	0.167 ± 0.338 (0.745) C:86% T:79%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.314 ± 0.461 (0.962)	pCi/L		03/05/21 14:00	
92521568012	YGWA-211(020921)					
EPA 9315	Radium-226	0.925 ± 0.287 (0.231) C.91% TNA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	0.315 ± 0.363 (0.763) C:88% T:79%	pCi/L		03/01/21 16:21	
Total Radium Calculation	Total Radium	1.24 ± 0.650 (0.994)	pCi/L		03/05/21 14:00	



Project: YATES AMA RADS

Pace Project No.: 92521568

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521568013	YGWA-3I(021021)					
EPA 9315	Radium-226	1.10 ± 0.317 (0.250)	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	C:91% I:NA 1.36 ± 0.549 (0.874) C:90%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	T:68% 2.46 ± 0.866 (1.12)	pCi/L		03/05/21 14:00	
92521568014	YGWA-3D(021021)					
EPA 9315	Radium-226	1.59 ± 0.397 (0.248) C:91% TNA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	2.06 ± 0.635 (0.822) C:84% T:79%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	3.65 ± 1.03 (1.07)	pCi/L		03/05/21 14:00	
92521568015	YGWA-30I(021121)					
EPA 9315	Radium-226	0.0594 ± 0.0766 (0.153) C:94% TNA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	0.619 ± 0.427 (0.833) C:86% T79%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.678 ± 0.504 (0.986)	pCi/L		03/05/21 14:00	
92521568016	FB-01(021121)					
EPA 9315	Radium-226	0.0929 ± 0.0996 (0.196)	pCi/L		03/05/21 07:28	
EPA 9320	Radium-228	0.419 ± 0.398 (0.821) C:88% T:80%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.512 ± 0.498 (1.02)	pCi/L		03/05/21 14:00	



Project: YATES AMA RADS

Pace Project No.: 92521568

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521568017	EB-01(021121)					
EPA 9315	Radium-226	0.0319 ± 0.0775 (0.187)	pCi/L		03/05/21 07:28	
EPA 9320	Radium-228	C:87% T:NA 0.648 ± 0.478 (0.941) C:86%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	T:67% 0.680 ± 0.556 (1.13)	pCi/L		03/05/21 14:00	
92521568018	YGWA-40 (021021) MS					
EPA 9315	Radium-226	102.72 %REC ± NA (NA) C:NA T:NA	pCi/L		03/05/21 07:28	
EPA 9320	Radium-228	82.38 %REC ± NA (NA) C:NA T:NA	pCi/L		03/01/21 16:20	
92521568019	YGWA-40 (021021) MSD					
EPA 9315	Radium-226	93.67%RE	pCi/L		03/05/21 07:28	
		C 9.21RPD ± NA (NA) C:NA T:NA				
EPA 9320	Radium-228	62.49 %REC 27.45 RPD ± NA (NA) C:NA T:NA	pCi/L		03/01/21 16:20	
92521567001	EB-02 (021021)					
EPA 9315	Radium-226	0.0550 ± 0.0861 (0.188) C:84% T:NA	pCi/L		03/05/21 07:30	
EPA 9320	Radium-228	-0.0344 ± 0.302 (0.716) C:69%	pCi/L		02/26/21 11:30	
Total Radium Calculation	Total Radium	T:90% 0.0550 ± 0.388 (0.904)	pCi/L		03/05/21 14:01	
92521567003	DUP-1 (021021)					
EPA 9315	Radium-226	0.0865 ± 0.0955 (0.184) C:82% T:NA	pCi/L		03/05/21 07:30	



Project: YATES AMA RADS

Pace Project No.: 92521568

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521567003	DUP-1 (021021)					
EPA 9320	Radium-228	0.528 ± 0.390 (0.755) C:71%	pCi/L		02/26/21 11:30	
Total Radium Calculation	Total Radium	0.615 ± 0.486 (0.939)	pCi/L		03/05/21 14:01	
92521567002	YGWA-14S (021021)					
EPA 9315	Radium-226	0.173 ± 0.123 (0.203) C:90% T:NA	pCi/L		03/05/21 07:30	
EPA 9320	Radium-228	0.180 ± 0.339 (0.746) C:73% T75%	pCi/L		02/26/21 11:30	
Total Radium Calculation	Total Radium	0.353 ± 0.462 (0.949)	pCi/L		03/05/21 14:01	
92521567010	YGWA-1I (021221)					
EPA 9315	Radium-226	0.136 ± 0.0809 (0.131) C:94% T:NA	pCi/L		03/09/21 19:03	
EPA 9320	Radium-228	0.322 ± 0.541 (1.18) C:72% T-83%	pCi/L		03/09/21 17:17	
Total Radium Calculation	Total Radium	0.458 ± 0.622 (1.31)	pCi/L		03/10/21 15:19	
92521567011	YGWA-1D (021221)					
EPA 9315	Radium-226	0.275 ± 0.0990 (0.123) C:95% T:NA	pCi/L		03/09/21 19:03	
EPA 9320	Radium-228	0.0910 ± 0.322 (0.726) C:81% T:87%	pCi/L		03/09/21 15:27	
Total Radium Calculation	Total Radium	0.366 ± 0.421 (0.849)	pCi/L		03/10/21 14:15	
92521567017	YGWA-1D (021221) MS					
EPA 9315	Radium-226	98.68 %REC ± NA (NA) C:NA T:NA	pCi/L		03/09/21 19:03	



Project: YATES AMA RADS

Pace Project No.: 92521568

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521567017	YGWA-1D (021221) MS					
EPA 9320	Radium-228	106.48 %REC ± NA (NA) C:NA T:NA	pCi/L		03/09/21 15:27	
92521567018	YGWA-1D (021221) MSD					
EPA 9315	Radium-226	91.79 %REC 7.24 RPD ± NA (NA) C:NA T:NA	pCi/L		03/09/21 19:03	
EPA 9320	Radium-228	91.25 %REC 15.40 RPD ± NA (NA) C:NA T:NA	pCi/L		03/09/21 15:28	
92521572002	YGWA-2I(021021)					
EPA 9315	Radium-226	0.209 ± 0.130 (0.198) C:83% T:NA	pCi/L		03/02/21 11:26	
EPA 9320	Radium-228	0.831 ± 0.551 (1.06) C:70% T:78%	pCi/L		02/24/21 15:31	
Total Radium Calculation	Total Radium	1.04 ± 0.681 (1.26)	pCi/L		03/02/21 16:35	



Project: YATES AMA RADS

Pace Project No.: 92521568

<b>Sample: YGWA-5D (020821)</b> PWS:	Lab ID: 92521568 Site ID:	8001 Collected: 02/08/21 16:45 Sample Type:	Received:	02/10/21 17:10 M	fatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	2.30 ± 0.514 (0.306) C:89% T:NA	pCi/L	03/05/21 07:15	13982-63-3	
	Pace Analytical Service	vices - Greensburg				
Radium-228	EPA 9320	0.591 ± 0.501 (1.00) C:79% T:67%	pCi/L	03/01/21 16:19	15262-20-1	
	Pace Analytical Service	vices - Greensburg				
Total Radium	Total Radium Calculation	2.89 ± 1.02 (1.31)	pCi/L	03/05/21 14:00	7440-14-4	



Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: DUP-01(020821)	Lab ID: 92521	568002 Collected: 02/08/21 00:00	Received:	02/10/21 17:10 N	latrix: Water	
PWS:	Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg				
Radium-226	EPA 9315	0.171 ± 0.133 (0.235) C:92% T:NA	pCi/L	03/05/21 07:15	13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.0142 ± 0.351 (0.815) C:80% T:79%	pCi/L	03/01/21 16:19	15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.185 ± 0.484 (1.05)	pCi/L	03/05/21 14:00	7440-14-4	



Project: YATES AMA RADS

Pace Project No.: 92521568

<b>Sample: YGWA-5I (020821)</b> PWS:	Lab ID: 925215 Site ID:	68003 Collected: 02/08/21 16:20 Sample Type:	Received:	02/10/21 17:10 M	fatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	ervices - Greensburg				
Radium-226	EPA 9315	0.476 ± 0.249 (0.427) C:90% T:NA	pCi/L	03/05/21 07:15	13982-63-3	
	Pace Analytical Se	ervices - Greensburg				
Radium-228	EPA 9320	0.137 ± 0.351 (0.783) C:82% T:79%	pCi/L	03/01/21 16:19	15262-20-1	
	Pace Analytical Se	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.613 ± 0.600 (1.21)	pCi/L	03/05/21 14:00	7440-14-4	



Project: YATES AMA RADS

Pace Project No.: 92521568

<b>Sample: YGWA-39 (021021)</b> PWS:	Lab ID: 92521568 Site ID:	Collected: 02/10/21 09:30 Sample Type:	Received:	02/10/21 17:10 M	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Serv	vices - Greensburg				
Radium-226	EPA 9315	0.363 ± 0.187 (0.306) C:96% T:NA	pCi/L	03/05/21 07:15	13982-63-3	
	Pace Analytical Serv	rices - Greensburg				
Radium-228	EPA 9320	0.155 ± 0.298 (0.655) C:87% T:90%	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical Serv	rices - Greensburg				
Total Radium	Total Radium Calculation	0.518 ± 0.485 (0.961)	pCi/L	03/05/21 14:00	7440-14-4	



Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-40 (021021) PWS:	Lab ID: 92521 Site ID:	568005 Collected: 02/10/21 10:50 Sample Type:	Received:	02/10/21 17:10 M	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	ervices - Greensburg				
Radium-226	EPA 9315	0.346 ± 0.178 (0.255) C:93% T:NA	pCi/L	03/05/21 07:15	13982-63-3	
	Pace Analytical S	ervices - Greensburg				
Radium-228	EPA 9320	0.437 ± 0.487 (1.02) C:90% T:61%	pCi/L	03/01/21 16:19	15262-20-1	
	Pace Analytical S	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.783 ± 0.665 (1.28)	pCi/L	03/05/21 14:00	7440-14-4	



Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: FB-01(021021) PWS:	Lab ID: 9252156 Site ID:	8006 Collected: 02/10/21 11:05 Sample Type:	Received:	02/10/21 17:10 N	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	rvices - Greensburg				
Radium-226	EPA 9315	0.0756 ± 0.104 (0.217) C:87% T:NA	pCi/L	03/05/21 07:15	13982-63-3	
	Pace Analytical Se	rvices - Greensburg				
Radium-228	EPA 9320	0.0378 ± 0.302 (0.696) C:86% T:83%	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical Se	rvices - Greensburg				
Total Radium	Total Radium Calculation	0.113 ± 0.406 (0.913)	pCi/L	03/05/21 14:00	7440-14-4	



Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-20S (020921) PWS:	Lab ID: 925215 Site ID:	568007 Collected: 02/09/21 16:50 Sample Type:	Received:	02/10/21 17:10 N	Aatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	ervices - Greensburg				
Radium-226	EPA 9315	0.0222 ± 0.0899 (0.230) C:94% T:NA	pCi/L	03/05/21 07:27	13982-63-3	
	Pace Analytical S	ervices - Greensburg				
Radium-228	EPA 9320	0.262 ± 0.354 (0.756) C:84% T:79%	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical S	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.284 ± 0.444 (0.986)	pCi/L	03/05/21 14:00	7440-14-4	



Project: YATES AMA RADS

Pace Project No.: 92521568

<b>Sample: YGWA-4I(020921)</b> PWS:	Lab ID: 9252156 Site ID:	8008 Collected: 02/09/21 09:50 Sample Type:	Received:	02/10/21 17:10 N	Aatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.492 ± 0.201 (0.224) C:89% T:NA	pCi/L	03/05/21 07:27	13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	0.134 ± 0.379 (0.848) C:84% T:78%	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	0.626 ± 0.580 (1.07)	pCi/L	03/05/21 14:00	7440-14-4	



Project: YATES AMA RADS

Pace Project No.: 92521568

<b>Sample: YGWA-17S(020921)</b> PWS:	Lab ID: 9252156 Site ID:	8009 Collected: 02/09/21 11:15 Sample Type:	Received:	02/10/21 17:10 M	fatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	rvices - Greensburg				
Radium-226	EPA 9315	0.0845 ± 0.101 (0.203) C:86% T:NA	pCi/L	03/05/21 07:27	13982-63-3	
	Pace Analytical Ser	rvices - Greensburg				
Radium-228	EPA 9320	0.444 ± 0.512 (1.08) C:89% T:63%	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical Ser	rvices - Greensburg				
Total Radium	Total Radium Calculation	0.529 ± 0.613 (1.28)	pCi/L	03/05/21 14:00	7440-14-4	



Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-18S(020921) PWS:	Lab ID: 9252 Site ID:	<b>1568010</b> Collected: 02/09/21 13:25 Sample Type:	Received:	02/10/21 17:10 N	Aatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0536 ± 0.0925 (0.208) C:92% T:NA	pCi/L	03/05/21 07:27	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.205 ± 0.313 (0.676) C:82% T:78%	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.259 ± 0.406 (0.884)	pCi/L	03/05/21 14:00	7440-14-4	



Project: YATES AMA RADS

Pace Project No.: 92521568

<b>Sample: YGWA-18I(020921)</b> PWS:	Lab ID: 925215 Site ID:	568011 Collected: 02/09/21 14:00 Sample Type:	Received:	02/10/21 17:10 M	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	ervices - Greensburg				
Radium-226	EPA 9315	0.147 ± 0.123 (0.217) C:89% T:NA	pCi/L	03/05/21 07:48	13982-63-3	
	Pace Analytical S	ervices - Greensburg				
Radium-228	EPA 9320	0.167 ± 0.338 (0.745) C:86% T:79%	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical S	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.314 ± 0.461 (0.962)	pCi/L	03/05/21 14:00	7440-14-4	



Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-211(020921) PWS:	Lab ID: 9252 Site ID:	<b>1568012</b> Collected: 02/09/21 16:10 Sample Type:	Received:	02/10/21 17:10 N	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				-
Radium-226	EPA 9315	0.925 ± 0.287 (0.231) C:91% T:NA	pCi/L	03/05/21 07:27	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.315 ± 0.363 (0.763) C:88% T:79%	pCi/L	03/01/21 16:21	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	1.24 ± 0.650 (0.994)	pCi/L	03/05/21 14:00	7440-14-4	



Project: YATES AMA RADS

Pace Project No.: 92521568

<b>Sample: YGWA-3I(021021)</b> PWS:	Lab ID: 925215 Site ID:	68013 Collected: 02/10/21 16:40 Sample Type:	Received:	02/11/21 13:03 M	fatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	ervices - Greensburg				
Radium-226	EPA 9315	1.10 ± 0.317 (0.250) C:91% T:NA	pCi/L	03/05/21 07:27	13982-63-3	
	Pace Analytical Se	ervices - Greensburg				
Radium-228	EPA 9320	1.36 ± 0.549 (0.874) C:90% T:68%	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical Se	ervices - Greensburg				
Total Radium	Total Radium Calculation	2.46 ± 0.866 (1.12)	pCi/L	03/05/21 14:00	7440-14-4	



Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-3D(021021) PWS:	Lab ID: 925215 Site ID:	568014 Collected: 02/10/21 17:25 Sample Type:	Received:	02/11/21 13:03 M	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	ervices - Greensburg			-	
Radium-226	EPA 9315	1.59 ± 0.397 (0.248) C:91% T:NA	pCi/L	03/05/21 07:27	13982-63-3	
	Pace Analytical S	ervices - Greensburg				
Radium-228	EPA 9320	2.06 ± 0.635 (0.822) C:84% T:79%	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical S	ervices - Greensburg				
Total Radium	Total Radium Calculation	3.65 ± 1.03 (1.07)	pCi/L	03/05/21 14:00	7440-14-4	



Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-30l(021121) PWS:	Lab ID: 9252 Site ID:	1568015 Collected: 02/11/21 09:50 Sample Type:	Received:	02/11/21 13:03 M	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0594 ± 0.0766 (0.153) C:94% T:NA	pCi/L	03/05/21 07:27	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.619 ± 0.427 (0.833) C:86% T:79%	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.678 ± 0.504 (0.986)	pCi/L	03/05/21 14:00	7440-14-4	



Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: FB-01(021121)	Lab ID: 9252	<b>1568016</b> Collected: 02/11/21 10:00	Received:	02/11/21 13:03 N	Aatrix: Water	
PWS:	Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0929 ± 0.0996 (0.196) C:96% T:NA	pCi/L	03/05/21 07:28	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.419 ± 0.398 (0.821) C:88% T:80%	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.512 ± 0.498 (1.02)	pCi/L	03/05/21 14:00	7440-14-4	



Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: EB-01(021121) PWS:	Lab ID: 9252 Site ID:	<b>1568017</b> Collected: 02/11/21 12:05 Sample Type:	Received:	02/11/21 13:03 M	fatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0319 ± 0.0775 (0.187) C:87% T:NA	pCi/L	03/05/21 07:28	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.648 ± 0.478 (0.941) C:86% T:67%	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.680 ± 0.556 (1.13)	pCi/L	03/05/21 14:00	7440-14-4	



Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-40 (021021) MS PWS:	Lab ID: 9252156 Site ID:	8018 Collected: 02/10/21 10:50 Sample Type:	Received:	02/10/21 17:10 N	Aatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	102.72 %REC ± NA (NA) C:NA T:NA	pCi/L	03/05/21 07:28	13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	82.38 %REC ± NA (NA) C:NA T:NA	pCi/L	03/01/21 16:20	15262-20-1	



Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-40 (021021) MSD PWS:	Lab ID: 9252156 Site ID:	8019 Collected: 02/10/21 10:50 Sample Type:	Received:	02/10/21 17:10 N	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				_
Radium-226	EPA 9315	93.67%REC 9.21RPD ± NA (NA) C:NA T:NA	pCi/L	03/05/21 07:28	13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	62.49 %REC 27.45 RPD ± NA (NA) C:NA T:NA	pCi/L	03/01/21 16:20	15262-20-1	



Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: EB-02 (021021) PWS:	Lab ID: 9252156 Site ID:	7001 Collected: 02/10/21 11:30 Sample Type:	Received:	02/10/21 17:10 M	fatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.0550 ± 0.0861 (0.188) C:84% T:NA	pCi/L	03/05/21 07:30	13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	-0.0344 ± 0.302 (0.716) C:69% T:90%	pCi/L	02/26/21 11:30	15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	0.0550 ± 0.388 (0.904)	pCi/L	03/05/21 14:01	7440-14-4	



Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: DUP-1 (021021) PWS:	Lab ID: 9252156 Site ID:	7003 Collected: 02/10/21 00:00 Sample Type:	Received:	02/10/21 17:10 M	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.0865 ± 0.0955 (0.184) C:82% T:NA	pCi/L	03/05/21 07:30	13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	0.528 ± 0.390 (0.755) C:71% T:78%	pCi/L	02/26/21 11:30	15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	0.615 ± 0.486 (0.939)	pCi/L	03/05/21 14:01	7440-14-4	



Project: YATES AMA RADS

Pace Project No.: 92521568

<b>Sample: YGWA-14S (021021)</b> PWS:	Lab ID: 925215 Site ID:	<b>67002</b> Collected: 02/10/21 08:50 Sample Type:	Received:	02/10/21 17:10 M	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	ervices - Greensburg				
Radium-226	EPA 9315	0.173 ± 0.123 (0.203) C:90% T:NA	pCi/L	03/05/21 07:30	13982-63-3	
	Pace Analytical S	ervices - Greensburg				
Radium-228	EPA 9320	0.180 ± 0.339 (0.746) C:73% T:75%	pCi/L	02/26/21 11:30	15262-20-1	
	Pace Analytical S	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.353 ± 0.462 (0.949)	pCi/L	03/05/21 14:01	7440-14-4	



Project: YATES AMA RADS

Pace Project No.: 92521568

<b>Sample: YGWA-1I (021221)</b> PWS:	Lab ID: 9252 Site ID:	<b>1567010</b> Collected: 02/12/21 13:20 Sample Type:	Received:	02/12/21 17:10 M	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.136 ± 0.0809 (0.131) C:94% T:NA	pCi/L	03/09/21 19:03	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.322 ± 0.541 (1.18) C:72% T:83%	pCi/L	03/09/21 17:17	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.458 ± 0.622 (1.31)	pCi/L	03/10/21 15:19	7440-14-4	



Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-1D (021221) PWS:	Lab ID: 92521 Site ID:	567011 Collected: 02/12/21 11:55 Sample Type:	Received:	02/12/21 17:10 N	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg				
Radium-226	EPA 9315	0.275 ± 0.0990 (0.123) C:95% T:NA	pCi/L	03/09/21 19:03	13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.0910 ± 0.322 (0.726) C:81% T:87%	pCi/L	03/09/21 15:27	15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.366 ± 0.421 (0.849)	pCi/L	03/10/21 14:15	7440-14-4	


#### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-1D (021221) MS PWS:	Lab ID: 9252156 Site ID:	7017 Collected: 02/12/21 11:55 Sample Type:	Received:	02/12/21 17:10 N	Aatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	98.68 %REC ± NA (NA) C:NA T:NA	pCi/L	03/09/21 19:03	13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	106.48 %REC ± NA (NA) C:NA T:NA	pCi/L	03/09/21 15:27	15262-20-1	



#### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-1D (021221) MSD PWS:	Lab ID: 9252156 Site ID:	<b>7018</b> Collected: 02/12/21 11:55 Sample Type:	Received:	02/12/21 17:10 N	Aatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	91.79 %REC 7.24 RPD ± NA (NA) C:NA T:NA	pCi/L	03/09/21 19:03	13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	91.25 %REC 15.40 RPD ± NA (NA) C:NA T:NA	pCi/L	03/09/21 15:28	15262-20-1	



#### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

<b>Sample: YGWA-2I(021021)</b> PWS:	Lab ID: 92521 Site ID:	572002 Collected: 02/10/21 12:40 Sample Type:	Received:	02/10/21 17:10 M	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Gervices - Greensburg				
Radium-226	EPA 9315	0.209 ± 0.130 (0.198) C:83% T:NA	pCi/L	03/02/21 11:26	13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.831 ± 0.551 (1.06) C:70% T:78%	pCi/L	02/24/21 15:31	15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	1.04 ± 0.681 (1.26)	pCi/L	03/02/21 16:35	7440-14-4	



Project:	YATES AMA RADS						
Pace Project No.:	92521568						
QC Batch:	436983	Analysis Method:	EPA 9315				
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radiun	า			
		Laboratory:	Pace Analytical Se	ervices - Greensburg	9		
Associated Lab San	nples: 92521567	010, 92521567011, 92521567017, 92521567018					
METHOD BLANK:	2109306	Matrix: Water					
Associated Lab San	nples: 92521567	010, 92521567011, 92521567017, 92521567018					
Paran	neter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers		
Radium-226		0.0161 ± 0.0615 (0.127) C:96% T:NA	pCi/L	03/09/21 19:03			

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 AMA RAD	YATES AMA RADS						
Pace Project No.:	92521568							
QC Batch:	435783	Analysis Method:	EPA 9315					
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radiu	ım				
		Laboratory:	Pace Analytical	Services - Greensbur	g			
Associated Lab San	nples: 92521567	001, 92521567002, 92521567003						
METHOD BLANK:	2103740	Matrix: Water						
Associated Lab San	nples: 92521567	001, 92521567002, 92521567003						
Paran	neter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers			
Radium-226 0.267 ± 0.143 (0.193) C:92% T:NA			pCi/L	03/05/21 07:29				

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 AMA RAD	S					
Pace Project No.:	92521568						
QC Batch:	435459		Analysis Method:	EPA 9315			
QC Batch Method: EPA 9315			Analysis Description:	9315 Total Radium			
			Laboratory:	Pace Analytical	Pace Analytical Services - Greensburg		
Associated Lab San	nples: 92521572	2002					
METHOD BLANK:	2102227		Matrix: Water				
Associated Lab San	nples: 92521572	2002					
Paran	neter	Act	± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-226		0.276 ± 0.140	(0.180) C:89% T:NA	pCi/L	03/02/21 07:53		

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	ATES AMA RADS								
Pace Project No.:	925215	68								
QC Batch:	43578	1		Analysis M	ethod:	EPA 9315				
QC Batch Method:	: EPA 9315			Analysis De	escription:	9315 Total Ra	adium			
Associated Lab Sam	iples:	92521568001, 92521568008, 92521568015,	92521568002, 92521568009, 92521568016,	Laboratory: 92521568003, 92521568010, 92521568017,	92521568004, 92521568011, 92521568018,	Pace Analytic 9252156800 9252156801 9252156801	cal Services - G 5, 9252156800 2, 9252156801 9	ireensburg 6, 925215 3, 925215	9 68007, 68014,	
METHOD BLANK:	210373	7		Matrix	c: Water					
Associated Lab Samples: 92521568001, 92521568002, 92521568003, 92521568004, 9252156 92521568008, 92521568009, 92521568010, 92521568011, 9252156 92521568015, 92521568016, 92521568017, 92521568018, 9252156					9252156800 9252156801 9252156801	5, 9252156800 2, 9252156801 9	6, 925215 3, 925215	68007, 68014,		
Param	neter		Act ± Un	c (MDC) Carr T	rac	Units	Analy	/zed	Qualifiers	
Radium-226		0.03	849 ± 0.0874 (	0.210) C:95% T	Γ:NA	pCi/L	03/05/2	1 07:14		

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 AMA RAD	5					
Pace Project No.:	92521568						
QC Batch:	435116		Analysis Method:	EPA 9320			
QC Batch Method: EPA 9320			Analysis Description:	9320 Radium 228			
			Laboratory:	Pace Analytical	Services - Greensbur	g	
Associated Lab San	nples: 92521572	002					
METHOD BLANK:	2100680		Matrix: Water				
Associated Lab San	nples: 92521572	002					
Paran	neter	Act :	± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-228		0.356 ± 0.369	(0.763) C:72% T:87%	pCi/L	02/24/21 15:29		

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	ATES AMA RADS								
Pace Project No.:	925215	68								
QC Batch:	43578	0		Analysis Me	ethod:	EPA 9320				
QC Batch Method:	od: EPA 9320			Analysis De	escription:	9320 Radium	228			
Associated Lab Sam	sociated Lab Samples: 92521568001, 92521568002 92521568008, 92521568009 92521568015, 92521568016			Laboratory: 92521568003, 92521568010, 92521568017,	92521568004, 92521568011, 92521568018,	Pace Analytical Services - Greensburg )4, 92521568005, 92521568006, 92521568007, 11, 92521568012, 92521568013, 92521568014, 18, 92521568019				
METHOD BLANK:	210373	6		Matrix	: Water					
Associated Lab Samples: 92521568001, 92521568002, 92521 92521568008, 92521568009, 92521 92521568015, 92521568016, 92521					92521568004, 92521568011, 92521568018,	92521568005 92521568012 92521568019	, 92521568006, 9 , 92521568013, 9	12521568 2521568	8007, 3014,	
Param	neter		Act ± Un	c (MDC) Carr Ti	rac	Units	Analyze	d	Qualifiers	
Radium-228		0.17	75 ± 0.283 (0.6	315) C:84% T:89	9%	pCi/L	03/01/21 16	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 AMA RAD	5					
Pace Project No.:	92521568						
QC Batch:	436984		Analysis Method:	EPA 9320			
QC Batch Method:	EPA 9320		Analysis Description:	9320 Radium 22	28		
			Laboratory:	Pace Analytical	Services - Greensbur	g	
Associated Lab San	nples: 92521567	010, 925215670	11, 92521567017, 92521567018	3			
METHOD BLANK:	2109307		Matrix: Water				
Associated Lab San	nples: 92521567	010, 925215670	11, 92521567017, 92521567018	3			
Paran	neter	Act ±	Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-228		0.0130 ± 0.299	(0.696) C:76% T:89%	pCi/L	03/09/21 15:28		

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 AMA RADS	6					
Pace Project No.:	92521568						
QC Batch:	435784		Analysis Method:	EPA 9320			
QC Batch Method: EPA 9320			Analysis Description:	9320 Radium 228			
			Laboratory:	Pace Analytical	Services - Greensbur	g	
Associated Lab San	nples: 92521567	001, 925215670	02, 92521567003				
METHOD BLANK:	2103741		Matrix: Water				
Associated Lab San	nples: 92521567	001, 925215670	02, 92521567003				
Paran	neter	Act ±	Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-228		0.191 ± 0.338	(0.740) C:71% T:85%	pCi/L	02/26/21 11:33		-

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 AMA RADS

Pace Project No.: 92521568

#### 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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.



#### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	YATES AMA RADS
Pace Project No .:	92521568

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521567001	EB-02 (021021)	EPA 9315	435783		
92521567002	YGWA-14S (021021)	EPA 9315	435783		
92521567003	DUP-1 (021021)	EPA 9315	435783		
92521568001	YGWA-5D (020821)	EPA 0315	435781		
92521500001	DUB 01(020021)	EDA 0215	435701		
92521506002	DOF-01(020821)	EFA 9315	433701		
92521568003	YGWA-51 (020821)	EPA 9315	435781		
92521568004	YGWA-39 (021021)	EPA 9315	435781		
92521568005	YGWA-40 (021021)	EPA 9315	435781		
92521568006	FB-01(021021)	EPA 9315	435781		
92521568007	YGWA-20S (020921)	EPA 9315	435781		
92521568008	YGWA-4I(020921)	EPA 9315	435781		
92521568009	YGWA-17S(020921)	EPA 9315	435781		
92521568010	YGWA-18S(020921)	EPA 9315	435781		
92521568011	YGWA-18I(020921)	EPA 9315	435781		
92521568012	YGWA-21I(020921)	EPA 9315	435781		
92521572002	YGWA-2I(021021)	EPA 9315	435459		
92521568013	YGWA-3I(021021)	EPA 9315	435781		
92521568014	YGWA-3D(021021)	EPA 9315	435781		
92521568015	YGWA-30I(021121)	EPA 9315	435781		
92521568016	FB-01(021121)	EPA 9315	435781		
92521568017	EB-01(021121)	EPA 9315	435781		
92521567010	YGWA-1I (021221)	EPA 9315	436983		
92521567011	YGWA-1D (021221)	EPA 9315	436983		
92521567017	YGWA-1D (021221) MS	EPA 9315	436983		
92521567018	YGWA-1D (021221) MSD	EPA 9315	436983		
92521568018	YGWA-40 (021021) MS	EPA 9315	435781		
92521568019	YGWA-40 (021021) MSD	EPA 9315	435781		
92521567001	EB-02 (021021)	EPA 9320	435784		
92521567002	YGWA-14S (021021)	EPA 9320	435784		
92521567003	DUP-1 (021021)	EPA 9320	435784		
92521568001	YGWA-5D (020821)	EPA 9320	435780		
92521568002	DUP-01(020821)	EPA 9320	435780		
92521568003	YGWA-5I (020821)	EPA 9320	435780		
92521568004	YGWA-39 (021021)	EPA 9320	435780		
92521568005	YGWA-40 (021021)	EPA 9320	435780		
92521568006	FB-01(021021)	EPA 9320	435780		
92521568007	YGWA-20S (020921)	EPA 9320	435780		
92521568008	YGWA-4I(020921)	EPA 9320	435780		
92521568009	YGWA-17S(020921)	EPA 9320	435780		
92521568010	YGWA-18S(020921)	EPA 9320	435780		
92521568011	YGWA-18I(020921)	EPA 9320	435780		
92521568012	YGWA-211(020921)	EPA 9320	435780		
92521572002	YGWA-2I(021021)	EPA 9320	435116		
92521568013	YGWA-3I(021021)	EPA 9320	435780		



#### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	YATES AMA RADS
Pace Project No .:	92521568

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521568014	YGWA-3D(021021)	EPA 9320	435780		
92521568015	YGWA-301(021121)	EPA 9320	435780		
92521568016	FB-01(021121)	EPA 9320	435780		
92521568017	EB-01(021121)	EPA 9320	435780		
92521567010	YGWA-1I (021221)	EPA 9320	436984		
92521567011	YGWA-1D (021221)	EPA 9320	436984		
92521567017	YGWA-1D (021221) MS	EPA 9320	436984		
92521567018	YGWA-1D (021221) MSD	EPA 9320	436984		
92521568018	YGWA-40 (021021) MS	EPA 9320	435780		
92521568019	YGWA-40 (021021) MSD	EPA 9320	435780		
92521567001	EB-02 (021021)	Total Radium Calculation	437456		
92521567002	YGWA-14S (021021)	Total Radium Calculation	437456		
92521567003	DUP-1 (021021)	Total Radium Calculation	437456		
92521568001	YGWA-5D (020821)	Total Radium Calculation	437454		
92521568002	DUP-01(020821)	Total Radium Calculation	437454		
92521568003	YGWA-5I (020821)	Total Radium Calculation	437454		
92521568004	YGWA-39 (021021)	Total Radium Calculation	437454		
92521568005	YGWA-40 (021021)	Total Radium Calculation	437454		
92521568006	FB-01(021021)	Total Radium Calculation	437454		
92521568007	YGWA-20S (020921)	Total Radium Calculation	437454		
92521568008	YGWA-4I(020921)	Total Radium Calculation	437454		
92521568009	YGWA-17S(020921)	Total Radium Calculation	437454		
92521568010	YGWA-18S(020921)	Total Radium Calculation	437454		
92521568011	YGWA-18I(020921)	Total Radium Calculation	437454		
92521568012	YGWA-21I(020921)	Total Radium Calculation	437454		
92521572002	YGWA-2I(021021)	Total Radium Calculation	436928		
92521568013	YGWA-3I(021021)	Total Radium Calculation	437454		
92521568014	YGWA-3D(021021)	Total Radium Calculation	437454		
92521568015	YGWA-30I(021121)	Total Radium Calculation	437454		
92521568016	FB-01(021121)	Total Radium Calculation	437454		
92521568017	EB-01(021121)	Total Radium Calculation	437454		
92521567010	YGWA-1I (021221)	Total Radium Calculation	438070		
92521567011	YGWA-1D (021221)	Total Radium Calculation	438070		

Pace Analytical*	Document N Sample Condition Upor Document I F-CAR-CS-033-	ame: n Receipt(SCUR) No.: Rev.07	Document Revised: October 28, 2020 Page 1 of 2 Issuing Authority: Pace Carolinas Quality Office
aboratory receiving samples: Asheville Eden Greenwoo	d 🗌 Huntersville 🗌	Raleigh 🗌	Mechanicsville Atlanta Kernersville
Sample Condition Client Name:	PALIPIC	Project	# WO#:92521568
Courier: Fed Ex Commercial Pace	UPS USPS Other:	Client	
ustody Seal Present? Yes 4NO	Seals Intact? 👋 🔲 Yes	<b>∐</b> No	Date/Initials Person Examining Contents 2/10/2-(
acking Material: Bubble Wrap hermometer: IR Gun ID: 230 correction coler Temp: 2(1 Add/Subt	Bubble Bags None Type of Ice: Factor: ract (°C) 0-0	Other	Biological Tissue Frozen? Yes No N/A Semp should be above freezing to 6°C Samples out of terms criteria. Samples on ice, cooling process
ooler Temp Corrected (°C): SDA Regulated Soil (  N/A, water sample) Id samples originate in a quarantine zone within the Yes No	t (	(check maps)?	Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No
Chain of Custody Present?			Contracticy Discrepancy:
Sampler Arrived within Hold Time?			
Short Hold Time Analysis (<72 hr.)?		$\frac{1}{1} N/A + \frac{2}{3}$	
Rush Turn Around Time Requested?		CIN/A 4.	
Sufficient Volume?			
Correct Containers Used?		□N/A 5. □N/A 6.	
-Pace Containers Used?	Tes No		.!
Containers Intact?	Gres No	□N/A 7.	;
Dissolved analysis: Samples Field Filtered?		EN/A 8	······
-includes Date/Time/ID/Analysis Matrix:		LIN/A 9.	
♦ Headspace in VOA Vials {>5-6mm)?	Yes No	UN/A 10.	
Trip Blank Present?	Yes No	ZN/A 11.	
Trip Blank Custody Seals Present?	Yes No	DN/A	3
COMMENTS/SAMPLE DISCREPANCY			Field Data Required? 🗍 Yes 🋄 No
		Lot	ID of split containers:
CLIENT NOTIFICATION/RESOLUTION			
Person contacted:		Date/Time:	
Project Manager SCURF Review:			Date:
Project Manager SRF Review:			Date:
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Pace Analytical
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# Quality Control Sample Performance Assessment

Ra-226	LAL 2/26/2021	58911 DW	
Test:	Analyst: Date:	Worklist: Matrix: <mark></mark>	

**MS/MSD 2** 

MS/MSD 1 2/10/2021

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Sample Matrix Spike Control Assessment Sample Collection Date:

Method Blank Assessment	
MB Sample ID	2103737
MB concentration:	0.035
M/B Counting Uncertainty:	0.087
MB MDC:	0.210
MB Numerical Performance Indicator:	0.78
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

I CS58911	
-CSD (Y or N)?	ontrol Sample Assessment
Pass	MB Status vs. MDC:
N/A	MB Status vs Numerical Indicator:
0.78	MB Numerical Performance Indicator:
2 2	

Matrix Spike/Matrix Spike Duplicate Sample Assessment			Duplicate Sample Assessment
MS/MSD Lower % Recovery Limits:	75%	75%	Lower % Recovery Limits:
MS/MSD Upper % Recovery Limits:	125%	125%	Upper % Recovery Limits:
MSD Status vs Recovery:	Pass	Pass	Status vs Recovery:
MS Status vs Recovery:	N/A	N/A	Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:	98.83%	100.53%	Percent Recovery:
MS Status vs Numerical Indicator:	-0.21	0.09	Numerical Performance Indicator:
MSD Percent Recovery:	0.516	0.526	LCS/LCSD Counting Uncertainty (pCi/L, g, F):
MS Percent Recovery:	4.738	4.762	Result (pCi/L, g, F):
MSD Numerical Performance Indicator:	0.058	0.057	Uncertainty (Calculated):
MS Numerical Performance Indicator:	4.795	4.737	Target Conc. (pCi/L, g, F):
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.501	0.508	Aliquot Volume (L, g, F):
Sample Matrix Spike Duplicate Result:	0.10	0.10	Volume Used (mL):
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	24.040	24.040	Decay Corrected Spike Concentration (pCi/mL):
Sample Matrix Spike Result:	19-033	19-033	Spike I.D.:
Sample Result Counting Uncertainty (pCi/L, g, F):	3/5/2021	3/5/2021	Count Date:
Sample Result:	LCSD58911	LCS58911	
MSD Spike Uncertainty (calculated):	Y	LCSD (Y or N)?	Laboratory Control Sample Assessment

Sample I.D. 92521668005 Sample MS I.D. 92521668018 Sample MSD I.D. 92521668019	Spike I.D.: 19-033 MSMSD Decay Corrected Spike Concentration (pCl/mL): 24.040	Spike Volume Used in MS (mL): 0.20	Spike Volume Used in MSD (mL): 0.20 MS Aliquot (L, g, F): 0.507	MS Target Conc. (pCi/L, g, F): 9.481	MSD Aliquot (L, g, F): 0.504 MSD Tarret Conc. (AC'i/ a. E): 0.524	MS Spike Uncertainty (calculated): 0.114	MSD Spike Uncertainty (calculated): 0.114	Sample Result: 0.346	Sample Result Counting Uncertainty (pCi/L, g, F): 0.170	Sample Matrix Spike Result 10.085 Matrix Spike Result Counting Uncertainty (ACUI a EV 0.750	Sample Matrix Spike Duplicate Result: 9.274	Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.719	MS Numerical Performance Indicator: 0.643	MSD Numerical Performance Indicator: -1.581	MS Percent Recovery: 102.72%	MSD Percent Recovery: 93.67%	MS Status vs Numerical Indicator: N/A	MSD Status vs Numerical Indicator: N/A	MS Status vs Recovery: Pass	MSD Status vs Recovery: Pass	MS/MSD Upper % Recovery Limits: 125% MS/MSD Lower % Recovery Limits: 75%		Matrix Spike/Matrix Spike Duplicate Sample Assessment	e Sample I.D. 92521568005	Sample MS I.D. 92521568018	Sample MSD I.D. 92521568019	e Sample Matrix Spike Result: 10.085	Matrix Spike Result Counting Uncertainty (pCi/L, g, F): 0.759	Sample Matrix Spike Duplicate Result: 9.274	Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.719	Duplicate Numerical Performance Indicator: 1.522 (Based on the Percent Recoveries) MS/ MSD Duplicate RPD- 0.21%	MC/ MCD Dunlicate Status vs Numerical Indicator	MOU PUPPICARE ORANG VS NAMERICAN INDEXACOL	% RPD Limit 25%	
							٢	LCSD58911	3/5/2021	19-033 24 040	0.10	0.501	4.795	0.058	4.738	0.516	-0.21	98.83%	N/A	Pass	125% 75%	0/01		Enter Duplicate	sample IDs if	other than	LCS/LCSD in th	space below.							
58911 DW	2103737	0.035	0.087 0.210	0.78	A/A Dass	Lass	CSD (Y or N)?	LCS58911	3/5/2021	19-033 24 040	0.10	0.508	4.737	0.057	4.762	0.526	0.09	100.53%	N/A	Pass	125% 75%	9/C1		LCS58911	LCSD58911	4.762	0.526	4.738	0.516	DZ	0.062	N/A	Pass	25%	
Worklist: Matrix:	hod Blank Assessment MB Sample ID	MB concentration:	M/B Counting Uncertainty: MB MDC:	MB Numerical Performance Indicator:	MB Status vs Numerical Indicator:		oratory Control Sample Assessment		Count Date:	Spike I.D.: Decay Corrected Shike Concentration (nCi/m) ).	Volume Used (mL):	Aliquot Volume (L, g, F):	Target Conc. (pCi/L, g, F):	Uncertainty (Calculated):	Result (pCi/L, g, F):	LCS/LCSD Counting Uncertainty (pCi/L, g, F):	Numerical Performance Indicator:	Percent Recovery:	Status vs Numerical Indicator:	Status vs Recovery:	Upper % Recovery Limits: Lower % Recovery Limits:	LOWER /0 NECOVERY LITTINS.	licate Sample Assessment	Sample I.D.:	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):	Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	Are sample and/or duplicate results below KL?	Duplicate Numerical Performance Indicator: Based on the LCS/LCSD Percent Recoveries) Duplicate RPD.	Dunlicate Status ve Numerical Indicator:	Dunlicate Status vs rvantencar marcarot.	% RPD Limit:	

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

Comments:

PACE Analytical Services Ra-228 Analysis

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# Quality Control Sample Performance Assessment

<u>Analyst Must Manually Enter All Fields Highlighted in Yellow.</u>

Ra-228	VAL 2/24/2021	58910 WT
Test	Analyst: Date:	Worklist: Matrix:

MS/MSD 2

2/10/2021 MS/MSD

Sample Collection Date:

Sample Matrix Spike Control Assessment

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

Spike I.D.:

rthod Blank Assessment	
MB Sample ID	2103736
MB concentration:	0.175
M/B 2 Sigma CSU:	0.283
MB MDC:	0.615
MB Numerical Performance Indicator;	1.21
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

	3/1/2021 21-003	Count Date: Soire 10
rcs	LCS58910	
11141	LCSD (Y or N)?	ory Control Sample Assessment
_		
	Pass	MB Status vs. MDC:
	Pass	MB Status vs Numerical Indicator:
	1.21	MB Numerical Performance Indicator;
	0.615	MB MDC:
	0.283	M/B Z Sigma CSU:

Sample Result

MS Target Conc. (p. 5) MS Target Conc. (p. 2), F) MSD Target Conc. (p. 2), F) MSD Target Conc. (p. 2), 9, F) MS Spike Uncertainty (calculated); MSD Spike Uncertainty (calculated);

Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL):

MS/MSD Decay Corrected Spike Concentration (pCi/mL):

M/B 2 Sioma CSU:	0.283
MB MDC:	0.615
MB Numerical Performance Indicator:	1.21
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass
ory Control Sample Assessment	LCSD (Y or N)?
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boratory Control Sample Assessment	-CSD (Y or N)?	Ν
	LCS58910	LCSD58910
Count Date:	3/1/2021	
Spike I.D.:	21-003	
Decay Corrected Spike Concentration (pCi/mL):	38.633	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F).	0.813	
Target Conc. (pCi/L, g, F):	4.751	
Uncertainty (Calculated):	0.233	
Result (pCi/L, g, F):	3.106	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.756	
Nimerical Professional Advisory	1 07	

		htration (pCi/mL): 38.633   Matrix Spike Result 2 Sigma CSU (pCi/L	lume Used (mL): [110:000000000000000000000000000000000	Volume (L, g, F): 0.813 0.813 Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L,	nc. (pCi/l, g, F): 4.751 MS Numerical Performance Indi	Inty (Catculated): 0.233 MSD Numerical Performance India	sult (pCi/L, g, F): 3.106 MS Percent Reco	SU (pCi/L, g, F): 0.756 MSD Percent Reco	mance Indicator: 4.07 MS Status vs Numerical Indic	ercent Recovery: 65.39% MSD Status vs Numerical India	merical Indicator: N/A MS Status vs Reco	tus vs Recovery: Pass MSD Status vs Reco	Recovery Limits: 135% I accovery Limits: 135%	Recovery Limits: 60% Recovery L	Matrix Spike/Matrix Spike Duplicate Sample Assessment	Samole (.D.: Enter Dunicate	
Contraction	Colloc 17.	Decay Corrected Spike Concentration (pCi/mL):	Volume Used (mL);   · · · · · · · ·	Aliquot Volume (L, g, F):	Target Conc. (pCi/L, g, F):	Uncertainty (Calculated):	Result (pCi/L, g, F);	LCS/LCSD 2 Sigma CSU (pCi/L, g, F);]	Numerical Performance Indicator,	Percent Recovery: 6	Status vs Numerical Indicator:	Status vs Recovery:	Upper % Recovery Limits:	Lower % Recovery Limits:	e Sample Assessment	Samole (D.:)	C

135% 60%		92521568005	92521568018	92521568019	8.391	1.709	6.453	1.402	1.718	27.45%	Pass	Pass	36%
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
		Enter Duplicate	sample IDs if	other than	LCS/LCSD in	the space below.							
60%								See Below #					
Lower & Recovery Limits.	Juplicate 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?	Duplicate Numerical Performance Indicator.	Duplicate RPD:	Duplicate Status vs Numerical Indicator:	Duplicate Status vs RPD:	% RPD Limit:

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

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Comments:

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# **March 2021**

Semiannual Event





# Georgia Power Co. – Plant Yates

# **DATA REVIEW**

Metals, Radium, and General Chemistry Analyses SDGs #92525896, 92525905, 92525931 and 92525936

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

Report #41027R Review Level: Tier II Project: 30052922.00004

# **SUMMARY**

This data quality assessment summarizes the review of Sample Delivery Groups (SDGs) # 92525896, 92525905, 92525931 and 92525936 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			Analy	sis
SDG	Sample ID	Lab ID	Matrix	Collection Date	Parent Sample	RAD	MET	GEN CHEM
	YGWC-24SA	92525896-1 92525931-1	Water	03/03/21		х	х	х
	YGWC-36A	92525896-2 92525931-2	Water	03/04/21		х	Х	Х
	DUP-2	92525896-3 92525931-3	Water	03/03/21	YGWC-24SA	x	х	х
	YGWC-23S	92525896-4 92525931-4	Water	03/04/21		х	Х	Х
	YGWC-41	92525896-5 92525931-5	Water	03/04/21		х	Х	х
92525896	YGWC-43	92525896-6 92525931-6	Water	03/04/21		х	Х	х
92525931	FB-1	92525896-7 92525931-7	Water	03/04/21		х	Х	х
	EB-2	92525896-8 92525931-8	Water	03/04/21		х	Х	х
	YGWC-49	92525896-9 92525931-9	Water	03/04/21		х	Х	х
	FB-02	92525896-10 92525931-10	Water	03/04/21		х	Х	Х
	YGWC-42	92525896-11 92525931-11	Water	03/04/21		х	Х	х
	TGWC-38	92525896-12 92525931-12	Water	03/04/21		х	Х	х
92525905	YAMW-2	92525905-1 92525936-1	Water	03/03/21		х	Х	Х
	YAMW-4	92525905-2 92525936-2	Water	03/03/21		х	х	х

				Sample			Analysis			
SDG	Sample ID	Lab ID	Matrix	Collection Date	Parent Sample	RAD	MET	GEN CHEM		
	YAMW-5	92525905-3 92525936-3	Water	03/04/21		х	Х	Х		
	YAMW-1	92525905-4 92525936-4	Water	03/03/21		х	Х	Х		
92525905 92525936	PZ-35	92525905-5 92525936-5	Water	03/04/21		х	Х	Х		
92525936	EB1	92525905-6 92525936-6	Water	03/04/21		x	Х	Х		
	PZ-37	92525905-7 92525936-7	Water	03/04/21		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 is the evaluation of the data package completeness.

		Reported		Performance Acceptable		Not
	Items Reviewed	No	Yes	No	Yes	Required
1.	Sample receipt condition		Х		Х	
2.	Requested analyses and sample results		Х		Х	
3.	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 (COC) 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, 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 National Functional Guidelines for Inorganic Superfund Methods Data Review (January2017).

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 reported sample detection 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 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 associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (B) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

YGWC-36A YGWC-23S Detected sample results <rl "ub"="" <bal="" and="" at="" rl<="" th="" the=""><th>Sample Locations</th><th>Analytes</th><th>Sample Result</th><th>Qualification</th></rl>	Sample Locations	Analytes	Sample Result	Qualification
	YGWC-36A YGWC-23S	Lead (EB)	Detected sample results <rl <bal<="" and="" td=""><td>"UB" at the RL</td></rl>	"UB" at the RL

Note:

EB = Equipment blank

RL = Reporting limit

MB = Method Blank

# 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 performed on samples YGWC-24SA and YAMW-2 exhibited recoveries and RPDs 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 RPD.

# 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.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Barium	0.025	0.026	3.9%
YGWC-24SA / DUP-2	Beryllium	0.000099 J	0.00011 J	AC

Results for duplicate samples are summarized in the following table.

Note:

AC = Acceptable

The differences in the results between the parent sample YGWC-24SA and field duplicate sample 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		mance ptable	Not
		Yes	No	Yes	Required
Inductively Coupled Plasma-Atomic Emission Spectrometer	у (ICP-AE	S)			
Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)	1				
Atomic Absorption – Manual Cold Vapor (CV)					
Tier II Validation					
Holding Times		Х		Х	
Reporting limits (units)		Х		Х	
Blanks					
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	
Field/Lab Duplicate (RPD)		Х		Х	
Reporting Limit Verification		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 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.

All analytes associated with MS/MSD recoveries were within control limits with the exception of the following analyte present in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery	
YGWC-23S	Sulfate	74%	73%	
YAMW-4	Sulfate	70%	65%	

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control limit	Sample Result	Qualification
	Non-detect	UJ
MS/MSD percent recovery 30% to 74%	Detect	J
	Non-detect	R
MS/MSD percent recovery <30%	Detect	J
NO/NOD / 1050/	Non-detect	No Action
MS/MSD percent recovery >125%	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 performed on sample PZ-37 for TDS exhibited an acceptable RPD.

# 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.

Sample **Duplicate** RPD Sample ID/Duplicate ID Analyte Result Result TDS 70 63 10.5% YGWC-24SA / DUP-2 Chloride 8.6 8.6 0.0%

Results for duplicate samples are summarized in the following table.

Notes:

#### AC = Acceptable

The differences in the results between the parent sample YGWC-24SA and field duplicate sample 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,	Reported		Performance Acceptable		Not
USEPA 300.0	No	Yes	No	Yes	Required
Miscellaneous Instrumentation					
Tier II Validation					
Holding times		х		Х	
Reporting limits (units)		х		Х	
Blanks					
A. Method Blanks		х		Х	
B. Equipment 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	
Field/Lab Duplicate (RPD)		Х		Х	
Dilution Factor		Х		Х	
Moisture Content	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 reporting limit (RL) of 1 pCi/L.

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 minimum detectable concentration (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  $_{MethodBlank} = \frac{|Sample - Blank|}{\sqrt{(U_{Sample})^2 + (U_{Blank})^2}}$ 

Where:

 $U_{Sample}$  = uncertainty of the sample  $U_{Blank}$  = uncertainty of the blank Sample = concentration of isotope in sample Blank = concentration of isotope in blank

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

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

Radium-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 < +/-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 these SDGs.

#### DATA REVIEW REPORT

## 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 using sample YAMW-1 in association with SW-846 9315 analysis exhibited acceptable differences 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:

For all analyses in soil matrices, 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 analysis is used to assess the overall precision of the field sampling procedures and analytical method. For results greater than five times the MDC, a control limit of 35 percent for water matrices is applied to the RPD between the parent and field duplicate sample results. If the parent and field duplicate sample results are less than five times the MDC, for water matrices a control limit of two times the MDC is applied to the difference between the results.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Radium-226	0.139 +/- 0.138	4.78 +/- 0.878	
YGWC-24SA / DUP-2	Radium-228	0.276 +/- 0.454	0.329 +/- 0.440	AC
	Total Radium	0.415 +/- 0.592	5.11 +/- 1.32	

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

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD

Notes:

AC = Acceptable

The differences in the results between the parent sample YGWA-24SA and field duplicate sample DUP-2 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% to110% is applied to each sample spiked with either a carrier and/or a tracer.

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

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

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

The numerical performance indicator for a laboratory control sample is calculated

by:

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

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

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

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

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

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

## 7. Isotope Identification

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

1. Sample result is less than the uncertainty and less than the MDC/MDA; or

#### DATA REVIEW REPORT

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-24SA Radium 226, Radium 228 and Total Radium
- YGWC-36A Radium 226, Radium 228 and Total Radium
- DUP-2 Radium 226
- YGWC-23S Radium 226, Radium 228 and Total Radium
- YGWC-41 Radium 226
- FB-1 Radium 226, Radium 228 and Total Radium
- EB-2 Radium 226, Radium 228 and Total Radium
- YGWC-49 Radium 228 and Total Radium
- FB-02 Radium 226, Radium 228 and Total Radium
- YGWC-42 Radium 226
- YGWC-38 Radium 226, Radium 228 and Total Radium
- YAMW-2 Radium 226, Radium 228 and Total Radium
- YAMW-4 Radium 228
- YAMW-1 Radium 226, Radium 228 and Total Radium
- PZ-35 Radium 226, Radium 228 and Total Radium
- EB-1 Radium 226, Radium 228 and Total Radium
- PZ-37 Radium 228

## 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 REVIEW REPORT

## DATA VALIDATION CHECKLIST FOR RADIOLOGICALS

RADIOLOGICALS: SW-846 9315/9320	Repo	orted	Perfor Acce	mance ptable	Not
	No	Yes	No	Yes	Required
Gas-Flow Proportional System					
Tier II Validation					
Holding Times		Х		Х	
Activity, +/- uncertainty, MDC/MDA		Х		Х	
Blanks					
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)		Х		Х	
Laboratory Control Sample Duplicate (LCSD)		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
Field/Lab Duplicate (RPD)		Х		Х	

Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Rachelle Borne

SIGNATURE:

Jachule Band

DATE: May 17, 2021

PEER REVIEW: Jennifer Singer

DATE: May 18, 2021

# CHAIN OF CUSTODY / DATA QUALIFIER SUMMARY TABLE



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SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
	YGWC-36A	6020	Lead	0.001	mg/L	UB	EB Contamination
92525931	YGWC-42	6020	Lead	0.001	mg/L	UB	EB Contamination
	YGWC-23S	300	Sulfate	61.7	mg/L	J	MS/MSD Recovery
92525936	YAMW-4	300	Sulfate	91.7	mg/L	J	MS/MSD Recovery
92525896				Nc	o Qualifi	ers Added	
92525905				Nc	) Qualifi	ers Added	

Abbreviations:

mg/L = milligrams per liter

Qualifiers:

UB = not detected due to blank contamination J/UJ = Estimated



Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

March 17, 2021

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

RE: Project: YATES Pace Project No.: 92525931

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on March 05, 2021. 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,

Kandony

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR Lauren Coker, Georgia Pwer Geoffrey Gay, ARCADIS - Atlanta Kristen Jurinko Kelley Sharpe, ARCADIS - Atlanta Alex Simpson, Arcadis Samantha Thomas Maribel Vital





Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

#### CERTIFICATIONS

Project: YATES Pace Project No.: 92525931

#### Pace Analytical Services Charlotte

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

#### Pace Analytical Services Asheville

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

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

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

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



#### SAMPLE SUMMARY

Project: YATES Pace Project No.: 92525931

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92525931001	YGWC-24SA	Water	03/03/21 11:50	03/05/21 09:20
92525931002	YGWC-36A	Water	03/04/21 12:35	03/05/21 09:20
92525931003	DUP-2	Water	03/03/21 00:00	03/05/21 09:20
92525931004	YGWC-23S	Water	03/04/21 12:15	03/05/21 09:20
92525931005	YGWC-41	Water	03/04/21 09:00	03/05/21 09:20
92525931006	YGWC-43	Water	03/04/21 14:50	03/05/21 09:20
92525931007	FB-1	Water	03/04/21 14:00	03/05/21 09:20
92525931008	EB-2	Water	03/04/21 16:35	03/05/21 09:20
92525931009	YGWC-49	Water	03/04/21 14:51	03/05/21 09:20
92525931010	FB-02	Water	03/04/21 15:00	03/05/21 09:20
92525931011	YGWC-42	Water	03/04/21 08:45	03/05/21 09:20
92525931012	YGWC-38	Water	03/04/21 13:45	03/05/21 09:20



## SAMPLE ANALYTE COUNT

Project:	YATES			
Pace Project No	o.: 92525931			
Lab ID	Sample ID	Method	Analysts	Analytes Reported
92525931001	YGWC-24SA	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525931002	YGWC-36A	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525931003	DUP-2	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525931004	YGWC-23S	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525931005	YGWC-41	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525931006	YGWC-43	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525931007	FB-1	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525931008	EB-2	EPA 6010D	DRB	1
		EPA 6020B	CW1	12



#### SAMPLE ANALYTE COUNT

Project:	YATES			
Pace Project No	.: 92525931			
Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525931009	YGWC-49	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525931010	FB-02	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525931011	YGWC-42	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525931012	YGWC-38	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	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

Pace Project No.: 92525931

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525931001	YGWC-24SA					
	Performed by	CUSTOME			03/08/21 09:05	
	рН	5.70	Std. Units		03/08/21 09:05	
EPA 6010D	Calcium	2.4	ma/L	1.0	03/12/21 19:29	
EPA 6020B	Barium	0.025	ma/L	0.0050	03/15/21 17:55	
EPA 6020B	Bervllium	0.000099J	ma/L	0.00050	03/15/21 17:55	
SM 2450C-2011	Total Dissolved Solids	70.0	ma/L	10.0	03/06/21 12:30	
EPA 300.0 Rev 2.1 1993	Chloride	8.6	mg/L	1.0	03/14/21 13:07	
92525931002	YGWC-36A					
	Performed by	CUSTOME			03/08/21 09:05	
	рН	к 5.67	Std. Units		03/08/21 09:05	
EPA 6010D	Calcium	5.6	mg/L	1.0	03/12/21 19:34	
EPA 6020B	Antimony	0.0015J	mg/L	0.0030	03/15/21 18:17	
EPA 6020B	Barium	0.028	ma/L	0.0050	03/15/21 18:17	
EPA 6020B	Bervllium	0.00016J	ma/L	0.00050	03/15/21 18:17	
EPA 6020B	Boron	0.0088.	mg/l	0.040	03/15/21 18:17	
EPA 6020B	Lead	0.00025J	mg/l	0.0010	03/15/21 18:17	
SM 2450C-2011	Total Dissolved Solids	69.0	mg/L	10.0	03/06/21 12:32	
EPA 300 0 Rev 2 1 1993	Chloride	6.6	mg/L	10	03/14/21 13:23	
EPA 300.0 Rev 2.1 1993	Sulfate	6.3	mg/L	1.0	03/14/21 13:23	
92525931003	DUP-2		-			
EPA 6010D	Calcium	24	ma/l	1.0	03/12/21 10:30	
EPA 6020B	Barium	0.026	mg/L	0.0050	03/15/21 18:23	
EPA 6020B	Beryllium	0.020	mg/L	0.0000	03/15/21 18:23	
SM 2450C-2011	Total Dissolved Solids	63.0	mg/L	10.0	03/06/21 12:30	
EPA 200 0 Poy 2 1 1002	Chlorido	00.0	mg/L	10.0	03/00/21 12:30	
02525024004		0.0	mg/∟	1.0	03/14/21 13:30	
92525931004	Porformed by	CUSTOME			02/08/21 00:05	
	Fendimed by	R			03/08/21 09.03	
	На	5.44	Std. Units		03/08/21 09:05	
EPA 6010D	Calcium	10.2	mg/L	1.0	03/12/21 19:43	
EPA 6020B	Barium	0.043	ma/L	0.0050	03/15/21 18:29	
EPA 6020B	Bervllium	0.00013J	ma/L	0.00050	03/15/21 18:29	
EPA 6020B	Boron	1.2	mg/l	0.040	03/15/21 18:29	
EPA 6020B	Chromium	0.00078.1	mg/l	0.0050	03/15/21 18:29	
EPA 6020B	Lead	0.00021.1	mg/L	0.0010	03/15/21 18:29	
EPA 6020B	Lithium	0.0026.1	mg/L	0.030	03/15/21 18:29	
EPA 6020B	Selenium	0.00200	mg/L	0.050	03/15/21 18:20	
SM 2450C 2011	Total Dissolved Solids	0.007	mg/L	10.0	03/06/21 10:23	
EDA 200 0 Boy 2 1 1002	Chlorido	90.0	mg/L	10.0	03/00/21 12.32	
EPA 300.0 Rev 2.1 1993 EPA 300.0 Rev 2.1 1993	Sulfate	61.7	mg/L	1.0	03/14/21 22:35	M1
92525931005	YGWC-41	0	<del>g</del> , <b>L</b>			
52525351005	Performed by	CUSTOME			03/08/21 09:05	
		R	Ctd Unite		02/02/24 00:05	
	μΠ	4.69	SIG. UNITS		03/00/21 09:05	



#### SUMMARY OF DETECTION

Project: YATES

Pace Project No.: 92525931

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525931005	YGWC-41					
EPA 6010D	Calcium	16.4	mg/L	1.0	03/12/21 19:48	
EPA 6020B	Barium	0.017	mg/L	0.0050	03/15/21 18:35	
EPA 6020B	Beryllium	0.0015	mg/L	0.00050	03/15/21 18:35	
EPA 6020B	Boron	4.0	mg/L	0.040	03/15/21 18:35	
EPA 6020B	Lithium	0.0021J	mg/L	0.030	03/15/21 18:35	
EPA 6020B	Selenium	0.037	mg/L	0.0050	03/15/21 18:35	
SM 2450C-2011	Total Dissolved Solids	224	mg/L	10.0	03/06/21 12:33	
EPA 300.0 Rev 2.1 1993	Chloride	3.4	mg/L	1.0	03/14/21 23:20	
EPA 300.0 Rev 2.1 1993	Sulfate	117	mg/L	3.0	03/15/21 14:33	
92525931006	YGWC-43					
	Performed by	CUSTOME R			03/08/21 09:05	
	рН	5.88	Std. Units		03/08/21 09:05	
EPA 6010D	Calcium	32.2	mg/L	1.0	03/12/21 19:53	
EPA 6020B	Barium	0.039	mg/L	0.0050	03/15/21 18:52	
EPA 6020B	Beryllium	0.00056	mg/L	0.00050	03/15/21 18:52	
EPA 6020B	Boron	3.6	mg/L	0.040	03/15/21 18:52	
EPA 6020B	Cobalt	0.0015J	mg/L	0.0050	03/15/21 18:52	
EPA 6020B	Lithium	0.025J	mg/L	0.030	03/15/21 18:52	
EPA 6020B	Molybdenum	0.0011J	mg/L	0.010	03/15/21 18:52	
SM 2450C-2011	Total Dissolved Solids	592	mg/L	10.0	03/06/21 12:33	
EPA 300.0 Rev 2.1 1993	Chloride	2.1	mg/L	1.0	03/14/21 23:35	
EPA 300.0 Rev 2.1 1993	Fluoride	0.063J	mg/L	0.10	03/14/21 23:35	
EPA 300.0 Rev 2.1 1993	Sulfate	328	mg/L	7.0	03/15/21 14:48	
92525931008	EB-2					
EPA 6020B	Lead	0.00022J	mg/L	0.0010	03/15/21 19:03	
92525931009	YGWC-49					
	Performed by	CUSTOME			03/08/21 09:05	
	рН	5.88	Std Units		03/08/21 09:05	
EPA 6010D	Calcium	13.0	ma/l	1.0	03/12/21 20:17	
EPA 6020B	Barium	0.069	mg/l	0.0050	03/15/21 19:09	
EPA 6020B	Beryllium	0.00010.1	mg/L	0.00050	03/15/21 19:09	
EPA 6020B	Chromium	0.0017.1	mg/l	0.0050	03/15/21 19:09	
EPA 6020B	Lithium	0.0035J	mg/L	0.030	03/15/21 19:09	
EPA 6020B	Selenium	0.0058	mg/l	0.0050	03/15/21 19:09	
SM 2450C-2011	Total Dissolved Solids	145	mg/L	10.0	03/08/21 11:06	
EPA 300 0 Rev 2 1 1993	Chloride	4 1	mg/L	10	03/15/21 01:05	
EPA 300.0 Rev 2.1 1993	Sulfate	75.1	mg/L	1.0	03/15/21 01:05	
92525931011	YGWC-42					
	Performed by				03/08/21 09:05	
	рН	5.59	Std. Units		03/08/21 09:05	
EPA 6010D	Calcium	90.7	mg/L	1.0	03/12/21 20:27	
EPA 6020B	Barium	0.030	mg/L	0.0050	03/15/21 19:20	
EPA 6020B	Boron	14.8	mg/L	0.40	03/16/21 16:11	

## **REPORT OF LABORATORY ANALYSIS**

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#### SUMMARY OF DETECTION

Project: YATES

Pace Project No.: 92525931

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525931011	YGWC-42					
EPA 6020B	Cobalt	0.0018J	mg/L	0.0050	03/15/21 19:20	
EPA 6020B	Lithium	0.059	mg/L	0.030	03/15/21 19:20	
EPA 6020B	Molybdenum	0.00085J	mg/L	0.010	03/15/21 19:20	
EPA 6020B	Selenium	0.048	mg/L	0.0050	03/15/21 19:20	
SM 2450C-2011	Total Dissolved Solids	501	mg/L	10.0	03/08/21 11:06	
EPA 300.0 Rev 2.1 1993	Chloride	2.7	mg/L	1.0	03/15/21 01:35	
EPA 300.0 Rev 2.1 1993	Sulfate	537	mg/L	12.0	03/15/21 15:02	
92525931012	YGWC-38					
	Performed by	CUSTOME R			03/08/21 09:05	
	рН	5.01	Std. Units		03/08/21 09:05	
EPA 6010D	Calcium	87.0	mg/L	1.0	03/12/21 20:31	
EPA 6020B	Barium	0.016	mg/L	0.0050	03/15/21 19:26	
EPA 6020B	Beryllium	0.0029	mg/L	0.00050	03/15/21 19:26	
EPA 6020B	Boron	6.4	mg/L	0.040	03/15/21 19:26	
EPA 6020B	Cadmium	0.0013	mg/L	0.00050	03/15/21 19:26	
EPA 6020B	Lithium	0.0067J	mg/L	0.030	03/15/21 19:26	
EPA 6020B	Selenium	0.076	mg/L	0.0050	03/15/21 19:26	
SM 2450C-2011	Total Dissolved Solids	600	mg/L	20.0	03/08/21 11:06	
EPA 300.0 Rev 2.1 1993	Chloride	3.9	mg/L	1.0	03/15/21 01:50	
EPA 300.0 Rev 2.1 1993	Sulfate	356	mg/L	8.0	03/15/21 15:17	



Project: YATES

Pace Project No.: 92525931

Sample: YGWC-24SA	Lab ID:	92525931001	Collecte	ed: 03/03/21	11:50	0 Received: 03/05/21 09:20 Matrix: Water			
Demension	Deculto	l la ita	Report	MDI		Dressered	Arrahmad		Qual
Parameters		Units	Limit		DF	Prepared	- Analyzed		Quai
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte	9					
Performed by	CUSTOME R				1		03/08/21 09:05		
рН	5.70	Std. Units			1		03/08/21 09:05		
6010D ATL ICP	Analytical Pace Ana	Method: EPA 6 lytical Services	010D Pre - Peachtre	paration Met e Corners, G	hod: E 3A	PA 3010A			
Calcium	2.4	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 19:29	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: E	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	SA				
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 17:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 17:55	7440-38-2	
Barium	0.025	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 17:55	7440-39-3	
Beryllium	0.000099J	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 17:55	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 17:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 17:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 17:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 17:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 17:55	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 17:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 17:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 17:55	7782-49-2	
7470 Mercury	Analytical	Method: EPA 7	470A Pre	paration Met	hod: El	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
Mercury	ND	mg/L	0.00020	0.000078	1	03/10/21 13:05	03/11/21 11:56	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 24	450C-2011						
	Pace Ana	lytical Services	- Peachtre	e Corners, G	SA				
Total Dissolved Solids	70.0	mg/L	10.0	10.0	1		03/06/21 12:30		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville	•					
Chloride	8.6	mg/L	1.0	0.60	1		03/14/21 13:07	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/14/21 13:07	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/14/21 13:07	14808-79-8	



Project: YATES

Pace Project No.: 92525931

Sample: YGWC-36A	Lab ID: 92525931002 Collected: 03/04/21 12:35 Received: 03/05/21 09:20 Matrix: Water									
_			Report							
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
Field Data	Analytica	l Method:								
	Pace Ana	alytical Service	es - Charlotte	;						
Performed by	CUSTOME				1		03/08/21 09:05			
рН	5.67	Std. Units			1		03/08/21 09:05			
6010D ATL ICP	Analytica	I Method: EPA	6010D Pre	paration Met	thod: E	PA 3010A				
	Pace Ana	alytical Service	es - Peachtre	e Corners, C	GΑ					
Calcium	5.6	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 19:34	7440-70-2		
6020 MET ICPMS	Analytica	I Method: EPA	6020B Pre	paration Met	hod: E	PA 3005A				
	Pace Ana	alytical Service	es - Peachtre	e Corners, C	ΒA					
Antimony	0.0015J	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 18:17	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 18:17	7440-38-2		
Barium	0.028	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 18:17	7440-39-3		
Beryllium	0.00016J	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 18:17	7440-41-7		
Boron	0.0088J	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 18:17	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 18:17	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 18:17	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 18:17	7440-48-4		
Lead	0.00025J	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 18:17	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 18:17	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 18:17	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 18:17	7782-49-2		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
	Pace Ana	alytical Service	es - Peachtre	e Corners, C	ЗA					
Mercury	ND	mg/L	0.00020	0.000078	1	03/10/21 13:05	03/11/21 11:59	7439-97-6		
2540C Total Dissolved Solids	Analytica	I Method: SM	2450C-2011							
	Pace Ana	alytical Service	es - Peachtre	e Corners, C	ЗA					
Total Dissolved Solids	69.0	mg/L	10.0	10.0	1		03/06/21 12:32			
300.0 IC Anions 28 Days	Analytica	l Method: EPA	300.0 Rev 2	2.1 1993						
	Pace Ana	alytical Service	es - Asheville	•						
Chloride	6.6	mg/L	1.0	0.60	1		03/14/21 13:23	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		03/14/21 13:23	16984-48-8		
Sulfate	6.3	mg/L	1.0	0.50	1		03/14/21 13:23	14808-79-8		



Project:	YATES									
Pace Project No.:	92525931									
Sample: DUP-2		Lab ID:	92525931003	Collecte	ed: 03/03/2	1 00:00	Received: 03/	/05/21 09:20 Ma	atrix: Water	
				Report						
Parame	eters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical	Method: EPA 6	010D Pre	paration Met	thod: EF	PA 3010A			
		Pace Anal	ytical Services	- Peachtre	e Corners, C	ĞΑ				
Calcium		2.4	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 19:39	7440-70-2	
6020 MET ICPMS		Analytical	Method: EPA 6	020B Prej	paration Met	hod: EF	PA 3005A			
		Pace Anal	ytical Services	- Peachtre	e Corners, C	ЗA				
Antimony		ND	ma/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 18:23	7440-36-0	
Arsenic		ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 18:23	7440-38-2	
Barium		0.026	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 18:23	7440-39-3	
Beryllium		0.00011J	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 18:23	7440-41-7	
Boron		ND	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 18:23	7440-42-8	
Cadmium		ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 18:23	7440-43-9	
Chromium		ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 18:23	7440-47-3	
Cobalt		ND	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 18:23	7440-48-4	
Lead		ND	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 18:23	7439-92-1	
Lithium		ND	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 18:23	7439-93-2	
Molybdenum		ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 18:23	7439-98-7	
Selenium		ND	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 18:23	7782-49-2	
7470 Mercury		Analytical	Method: EPA 7	470A Prep	paration Met	hod: EP	A 7470A			
		Pace Anal	ytical Services	- Peachtre	e Corners, C	GΑ				
Mercury		ND	mg/L	0.00020	0.000078	1	03/10/21 13:05	03/11/21 12:01	7439-97-6	
2540C Total Dissol	ved Solids	Analytical	Method: SM 24	50C-2011						
		Pace Anal	ytical Services	<ul> <li>Peachtre</li> </ul>	e Corners, C	ΒA				
Total Dissolved Soli	ds	63.0	mg/L	10.0	10.0	1		03/06/21 12:30		
300.0 IC Anions 28	Days	Analytical	Method: EPA 3	00.0 Rev 2	2.1 1993					
		Pace Anal	ytical Services	- Asheville						
Chloride		8.6	ma/L	1.0	0.60	1		03/14/21 13:38	16887-00-6	
Fluoride		ND	ma/L	0.10	0.050	1		03/14/21 13:38	16984-48-8	
Sulfate		ND	mg/L	1.0	0.50	1		03/14/21 13:38	14808-79-8	



Project: YATES

Pace Project No.: 92525931

Sample: YGWC-23S	Lab ID: 92525931004 Collected: 03/04/21 12:15 Received: 03/05/21 09:20 Matrix: Water								
			Report					040 N	0
Parameters	Results	Units		MDL		Prepared	Analyzed	CAS No.	Qual
Field Data	Analytica	I Method:							
	Pace Ana	alytical Service	es - Charlotte	)					
Performed by	CUSTOME				1		03/08/21 09:05		
рН	5.44	Std. Units			1		03/08/21 09:05		
6010D ATL ICP	Analytica	I Method: EPA	6010D Pre	paration Met	hod: E	PA 3010A			
	Pace Ana	alytical Service	es - Peachtre	e Corners, G	βA				
Calcium	10.2	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 19:43	7440-70-2	
6020 MET ICPMS	Analytica	I Method: EPA	6020B Pre	paration Met	hod: E	PA 3005A			
	Pace Ana	alytical Service	es - Peachtre	e Corners, C	ΒA				
Antimony	ND	ma/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 18:29	7440-36-0	
Arsenic	ND	ma/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 18:29	7440-38-2	
Barium	0.043	ma/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 18:29	7440-39-3	
Bervllium	0.00013J	ma/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 18:29	7440-41-7	
Boron	1.2	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 18:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 18:29	7440-43-9	
Chromium	0.00078J	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 18:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 18:29	7440-48-4	
Lead	0.00021J	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 18:29	7439-92-1	
Lithium	0.0026J	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 18:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 18:29	7439-98-7	
Selenium	0.037	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 18:29	7782-49-2	
7470 Mercury	Analytica	I Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A			
	Pace Ana	alytical Service	es - Peachtre	e Corners, G	βA				
Mercury	ND	mg/L	0.00020	0.000078	1	03/10/21 13:05	03/11/21 12:03	7439-97-6	
2540C Total Dissolved Solids	Analytica	I Method: SM	2450C-2011						
	Pace Ana	alytical Service	es - Peachtre	e Corners, G	βA				
Total Dissolved Solids	96.0	mg/L	10.0	10.0	1		03/06/21 12:32		
300.0 IC Anions 28 Days	Analytica	I Method: EPA	300.0 Rev 2	2.1 1993					
-	Pace Ana	alytical Service	es - Asheville	1					
Chloride	1.8	mg/L	1.0	0.60	1		03/14/21 22:35	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/14/21 22:35	16984-48-8	M1
Sulfate	61.7	ma/L	1.0	0.50	1		03/14/21 22:35	14808-79-8	M1



Project: YATES

Pace Project No.: 92525931

Sample: YGWC-41	Lab ID:	92525931005	Collecte	ed: 03/04/2	1 09:00	Received: 03/05/21 09:20 Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analvzed	CAS No.	Qual	
Field Data	Analytica	I Method:								
	Pace Ana	alytical Services	s - Charlotte	9						
Performed by	CUSTOME				1		03/08/21 09:05			
рН	4.69	Std. Units			1		03/08/21 09:05			
6010D ATL ICP	Analytica Pace Ana	l Method: EPA	6010D Pre	paration Met	thod: El	PA 3010A				
Calcium	16.4	ma/l	1 0	0 070	1	03/12/21 11:05	03/12/21 19:48	7440-70-2		
Calcium	10.4	iiig/E	1.0	0.070		00/12/21 11:00	00/12/21 10:40	1440 10 2		
6020 MET ICPMS	Analytica Pace Ana	I Method: EPA	6020B Prej s - Peachtre	paration Met e Corners, C	ihod: El GA	PA 3005A				
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 18:35	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 18:35	7440-38-2		
Barium	0.017	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 18:35	7440-39-3		
Beryllium	0.0015	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 18:35	7440-41-7		
Boron	4.0	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 18:35	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 18:35	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 18:35	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 18:35	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 18:35	7439-92-1		
Lithium	0.0021J	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 18:35	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 18:35	7439-98-7		
Selenium	0.037	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 18:35	7782-49-2		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
	Pace Ana	alytical Services	s - Peachtre	e Corners, C	GA					
Mercury	ND	mg/L	0.00020	0.000078	1	03/10/21 13:05	03/11/21 12:06	7439-97-6		
2540C Total Dissolved Solids	Analytica Pace Ana	l Method: SM 2	450C-2011	e Corners, (	ΞA					
Total Dissolved Solids	224	mg/L	10.0	10.0	1		03/06/21 12:33			
	البرية من المريح المريح المريح المريح المريح المريح المريح المريح المريح المريح المريح المريح ال	Mathad EDA		0 4 4000						
300.0 IC ANIONS 28 Days	Analytica Pace Ana	alytical Services	s - Asheville	2.1 1993						
Chloride	3.4	mg/L	1.0	0.60	1		03/14/21 23:20	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		03/14/21 23:20	16984-48-8		
Sulfate	117	ma/L	3.0	1.5	3		03/15/21 14:33	14808-79-8		


Project: YATES

Pace Project No.: 92525931

Sample: YGWC-43	Lab ID:	92525931006	Collecte	ed: 03/04/21	14:50	Received: 03/05/21 09:20 Matrix: Water							
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual				
Field Data	Analytica Pace Ana	l Method: Ilytical Services	s - Charlotte	•									
Performed by	CUSTOME				1		03/08/21 09:05						
рН	к 5.88	Std. Units			1		03/08/21 09:05						
6010D ATL ICP	Analytica Pace Ana	l Method: EPA (	6010D Pre - Peachtre	paration Met e Corners, G	hod: E 3A	PA 3010A							
Calcium	32.2	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 19:53	7440-70-2					
6020 MET ICPMS	Analytica Pace Ana	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA											
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 18:52	7440-36-0					
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 18:52	7440-38-2					
Barium	0.039	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 18:52	7440-39-3					
Beryllium	0.00056	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 18:52	7440-41-7					
Boron	3.6	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 18:52	7440-42-8					
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 18:52	7440-43-9					
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 18:52	7440-47-3					
Cobalt	0.0015J	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 18:52	7440-48-4					
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 18:52	7439-92-1					
Lithium	0.025J	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 18:52	7439-93-2					
Molybdenum	0.0011J	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 18:52	7439-98-7					
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 18:52	7782-49-2					
7470 Mercury	Analytica Pace Ana	I Method: EPA	7470A Pre - Peachtre	paration Metl e Corners, G	hod: El BA	PA 7470A							
Mercury	ND	mg/L	0.00020	0.000078	1	03/10/21 13:05	03/11/21 12:08	7439-97-6					
2540C Total Dissolved Solids	Analytica Pace Ana	l Method: SM 2 Ilytical Services	450C-2011 - Peachtre	e Corners, G	6A								
Total Dissolved Solids	592	mg/L	10.0	10.0	1		03/06/21 12:33						
300.0 IC Anions 28 Days	Analytica Pace Ana	l Method: EPA : Ilytical Services	300.0 Rev 2 s - Asheville	2.1 1993									
Chloride	21	ma/l	10	0.60	1		03/14/21 23:35	16887-00-6					
Fluoride	0.063.1	mg/L	0.10	0.00	1		03/14/21 23:35	16984-48-8					
Sulfate	328	mg/L	7.0	3.5	7		03/15/21 14:48	14808-79-8					



Project:	YATES
Pace Proiect No.:	92525931

Sample: FB-1	Lab ID:	92525931007	Collecte	ed: 03/04/2	1 14:00	Received: 03/	05/21 09:20 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	thod: El	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	ЗA				
Calcium	ND	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 20:07	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	GΑ				
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 18:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 18:58	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 18:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 18:58	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 18:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 18:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 18:58	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 18:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 18:58	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 18:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 18:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 18:58	7782-49-2	
7470 Mercury	Analytical	Method: EPA 7	470A Pre	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.000078	1	03/10/21 13:05	03/11/21 12:10	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 24	450C-2011						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/08/21 11:06		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
-	Pace Ana	lytical Services	- Asheville	•					
Chloride	ND	mg/L	1.0	0.60	1		03/14/21 23:50	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/14/21 23:50	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/14/21 23:50	14808-79-8	
		-							



YATES

Project:

### ANALYTICAL RESULTS

Pace Project No.: 92525931									
Sample: EB-2	Lab ID:	92525931008	Collecte	ed: 03/04/2	1 16:35	Received: 03/	05/21 09:20 Ma	atrix: Water	
_			Report						
Parameters	_ Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Me	thod: Ef	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, (	GA				
Calcium	ND	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 20:12	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Prep	paration Me	thod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, (	GA				
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 19:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 19:03	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 19:03	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 19:03	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 19:03	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 19:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 19:03	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 19:03	7440-48-4	
Lead	0.00022J	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 19:03	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 19:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 19:03	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 19:03	7782-49-2	
7470 Mercury	Analytical	Method: EPA 7	470A Prep	paration Met	thod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, (	GΑ				
Mercury	ND	mg/L	0.00020	0.000078	1	03/10/21 13:05	03/11/21 12:13	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 24	450C-2011						
	Pace Ana	lytical Services	- Peachtre	e Corners, (	GA				
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/08/21 11:06		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	ND	mg/L	1.0	0.60	1		03/15/21 00:50	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 00:50	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/15/21 00:50	14808-79-8	



Project: YATES

Pace Project No.: 92525931

Sample: YGWC-49	Lab ID:	92525931009	Collecte	ed: 03/04/21	1 14:51	Received: 03/05/21 09:20 Matrix: Water						
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual			
Field Data	Analytica	l Method:	Charlette									
		ayuca Services	- Chanolle	;								
Performed by	CUSTOME				1		03/08/21 09:05					
рН	5.88	Std. Units			1		03/08/21 09:05					
6010D ATL ICP	Analytica Pace Ana	l Method: EPA e	6010D Pre - Peachtre	paration Met e Corners, G	hod: El GA	PA 3010A						
Calcium	13.0	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 20:17	7440-70-2				
6020 MET ICPMS	Analytica Pace Ana	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA										
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 19:09	7440-36-0				
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 19:09	7440-38-2				
Barium	0.069	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 19:09	7440-39-3				
Beryllium	0.00010J	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 19:09	7440-41-7				
Boron	ND	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 19:09	7440-42-8				
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 19:09	7440-43-9				
Chromium	0.0017J	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 19:09	7440-47-3				
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 19:09	7440-48-4				
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 19:09	7439-92-1				
Lithium	0.0035J	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 19:09	7439-93-2				
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 19:09	7439-98-7				
Selenium	0.0058	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 19:09	7782-49-2				
7470 Mercury	Analytica Pace Ana	l Method: EPA	7470A Pre - Peachtre	paration Met	hod: El 3A	PA 7470A						
Mercury	ND	mg/L	0.00020	0.000078	1	03/10/21 13:05	03/11/21 12:22	7439-97-6				
2540C Total Dissolved Solids	Analytica Pace Ana	I Method: SM 2 alytical Services	450C-2011 - Peachtre	e Corners, G	θA							
Total Dissolved Solids	145	mg/L	10.0	10.0	1		03/08/21 11:06					
300.0 IC Anions 28 Days	Analytica Pace Ana	l Method: EPA 3	300.0 Rev 2 s - Asheville	2.1 1993								
Chloride	4.1	ma/L	1.0	0.60	1		03/15/21 01:05	16887-00-6				
Fluoride	ND	ma/L	0.10	0.050	1		03/15/21 01:05	16984-48-8				
Sulfate	75.1	ma/L	1.0	0.50	1		03/15/21 01:05	14808-79-8				



YATES

Project:

### ANALYTICAL RESULTS

Pace Project No.: 92525931									
Sample: FB-02	Lab ID:	9252593101	D Collecte	ed: 03/04/2	1 15:00	Received: 03/	/05/21 09:20 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Me	thod: E	PA 3010A			
	Pace Anal	ytical Service	s - Peachtre	e Corners, (	GΑ				
Calcium	ND	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 20:22	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Me	thod: E	PA 3005A			
	Pace Anal	ytical Service	s - Peachtre	e Corners, (	ЗA				
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 19:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 19:15	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 19:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 19:15	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 19:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 19:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 19:15	7440-47-3	
Cobalt	ND	ma/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 19:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 19:15	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 19:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 19:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 19:15	7782-49-2	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	thod: El	PA 7470A			
	Pace Anal	ytical Service	s - Peachtre	e Corners, (	GΑ				
Mercury	ND	mg/L	0.00020	0.000078	1	03/10/21 13:05	03/11/21 12:25	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	2450C-2011						
	Pace Anal	ytical Service	s - Peachtre	e Corners, (	GΑ				
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/08/21 11:06		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Anal	ytical Service	s - Asheville	•					
Chloride	ND	ma/L	1.0	0.60	1		03/15/21 01:20	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 01:20	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/15/21 01:20	14808-79-8	

**REPORT OF LABORATORY ANALYSIS** 

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Project: YATES

Pace Project No.: 92525931

Sample: YGWC-42	Lab ID:	92525931011	Collecte	ed: 03/04/21	08:45	Received: 03/	05/21 09:20 Matrix: Water		
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytica	I Method:							
	Pace Ana	alytical Services	s - Charlotte	9					
Performed by	CUSTOME				1		03/08/21 09:05		
рН	5.59	Std. Units			1		03/08/21 09:05		
6010D ATL ICP	Analytica	I Method: EPA	6010D Pre	paration Met	hod: E	PA 3010A			
	Pace Ana	alytical Services	s - Peachtre	e Corners, C	βA				
Calcium	90.7	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 20:27	7440-70-2	
6020 MET ICPMS	Analytica	I Method: EPA	6020B Pre	paration Met	hod: E	PA 3005A			
	Pace Ana	alytical Services	s - Peachtre	e Corners, C	<b>A</b>				
Antimony	ND	ma/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 19:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 19:20	7440-38-2	
Barium	0.030	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 19:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 19:20	7440-41-7	
Boron	14.8	mg/L	0.40	0.052	10	03/12/21 11:07	03/16/21 16:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 19:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 19:20	7440-47-3	
Cobalt	0.0018J	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 19:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 19:20	7439-92-1	
Lithium	0.059	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 19:20	7439-93-2	
Molybdenum	0.00085J	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 19:20	7439-98-7	
Selenium	0.048	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 19:20	7782-49-2	
7470 Mercury	Analytica	I Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A			
	Pace Ana	alytical Services	s - Peachtre	e Corners, G	βA				
Mercury	ND	mg/L	0.00020	0.000078	1	03/11/21 15:15	03/12/21 09:29	7439-97-6	
2540C Total Dissolved Solids	Analytica	I Method: SM 2	450C-2011						
	Pace Ana	alytical Services	s - Peachtre	e Corners, G	βA				
Total Dissolved Solids	501	mg/L	10.0	10.0	1		03/08/21 11:06		
300.0 IC Anions 28 Days	Analytica	I Method: EPA	300.0 Rev 2	2.1 1993					
-	Pace Ana	alytical Services	s - Asheville	•					
Chloride	2.7	mg/L	1.0	0.60	1		03/15/21 01:35	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 01:35	16984-48-8	
Sulfate	537	mg/L	12.0	6.0	12		03/15/21 15:02	14808-79-8	



Project: YATES

Pace Project No.: 92525931

Sample: YGWC-38	Lab ID:	92525931012	2 Collecte	ed: 03/04/2	1 13:45	Received: 03/	/05/21 09:20 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytica Pace Ana	l Method:	s - Charlotte	<u> </u>					
Derformed by	CUSTOME		o onanotic	•	4		02/08/24 00:05		
Fendinied by	R				I		03/06/21 09.05		
рН	5.01	Std. Units			1		03/08/21 09:05		
6010D ATL ICP	Analytica Pace Ana	l Method: EPA alytical Service	6010D Pre s - Peachtre	paration Me	thod: El GA	PA 3010A			
Calcium	87.0	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 20:31	7440-70-2	
6020 MET ICPMS	Analytica Pace Ana	l Method: EPA alytical Service	6020B Pre s - Peachtre	paration Met e Corners, C	ihod: El GA	PA 3005A			
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 19:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 19:26	7440-38-2	
Barium	0.016	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 19:26	7440-39-3	
Beryllium	0.0029	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 19:26	7440-41-7	
Boron	6.4	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 19:26	7440-42-8	
Cadmium	0.0013	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 19:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 19:26	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 19:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 19:26	7439-92-1	
Lithium	0.0067J	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 19:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 19:26	7439-98-7	
Selenium	0.076	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 19:26	7782-49-2	
7470 Mercury	Analytica	I Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A			
	Pace Ana	alytical Service	s - Peachtre	e Corners, C	GA				
Mercury	ND	mg/L	0.00020	0.000078	1	03/11/21 15:15	03/12/21 09:38	7439-97-6	
2540C Total Dissolved Solids	Analytica Pace Ana	l Method: SM 2 alytical Service	2450C-2011 s - Peachtre	e Corners, 0	GA				
Total Dissolved Solids	600	mg/L	20.0	20.0	1		03/08/21 11:06		
300.0 IC Anions 28 Days	Analytica	l Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	alytical Service	s - Asheville	1					
Chloride	3.9	mg/L	1.0	0.60	1		03/15/21 01:50	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 01:50	16984-48-8	
Sulfate	356	ma/L	8.0	4.0	8		03/15/21 15:17	14808-79-8	



Project:	YATES	5												
Pace Project No.:	925259	931												
QC Batch:	6060	33		Analy	ysis Meth	iod:	EPA 6010D	)						
QC Batch Method:	EPA	3010A		Analy	Analysis Description:			6010D ATL						
				Laboratory:			Pace Analytical Services - Peachtree Corners, GA							
Associated Lab Sa	mples:	925259310 925259310	001, 9252593100 008, 9252593100	2, 9252593 9, 9252593	31003, 92 31010, 92	2525931004 2525931011	, 925259310 , 925259310	)05, 92525 112	931006, 92	525931007	7,			
METHOD BLANK:	31928	36			Matrix:	Water								
Associated Lab Sa	mples:	92525931 92525931	001, 9252593100 008, 9252593100	2, 9252593 9, 9252593	31003, 92 31010, 92	2525931004 2525931011,	, 925259310 , 925259310	)05, 92525 12	931006, 92	525931007	7,			
				Blar	nk	Reporting								
Para	meter		Units	Res	ult	Limit	MD		Analyzed	Qu	ualifiers			
Calcium			mg/L		ND	1	.0	0.070 0	3/12/21 19:	19				
LABORATORY CO	NTROL	SAMPLE:	3192887											
				Spike	L	CS	LCS	% F	lec					
Para	meter		Units	Conc.	R	esult	% Rec	Lim	its (	Qualifiers				
Calcium			mg/L		1	1.1	11	1	80-120					
MATRIX SPIKE & M	MATRIX	SPIKE DUP	LICATE: 3192	890		319289	1							
			00505000004	MS	MSD		MOD		MOD	0/ <b>D</b> -				
Paramete	er	Units	92525936001 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	i∕iax RPD	Qual	
Calcium		mg/L	1.5	1		1 2.6	2.6	107	111	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:	YATES	3									
Pace Project No.:	92525	931									
QC Batch:	6060	45	Analysis Meth	od: E	PA 6020B						
QC Batch Method:	EPA	3005A	Analysis Desc	ription: 60	6020 MET						
			Laboratory:	P	ace Analytical Se	vices - Peachtree	Corners, GA				
Associated Lab Samples: 92525931001, 92525931002, 92525931003, 92525931004, 92525931005, 92525931006, 92525931007, 92525931008, 92525931009, 92525931010, 92525931011, 92525931012											
METHOD BLANK:	31930	05	Matrix:	Water							
Associated Lab Sa	mples:	92525931001, 925259310 92525931008, 925259310	002, 92525931003, 92 009, 92525931010, 92 Black	525931004, 9 525931011, 9 Reporting	2525931005, 925 2525931012	25931006, 925259	931007,				
Para	meter	Units	Result	Limit	MDL	Analyzed	Qualifiers				
Antimony		ma/L		0.0030	0.00028	03/15/21 17:43					
Arsenic		mg/L	ND	0.0050	0.00078	03/15/21 17:43					
Barium		mg/L	ND	0.0050	0.00071	03/15/21 17:43					
Beryllium		mg/L	ND	0.00050	0.000046	03/15/21 17:43					
Boron		mg/L	ND	0.040	0.0052	03/15/21 17:43					
Cadmium		mg/L	ND	0.00050	0.00012	03/15/21 17:43					
Chromium		mg/L	ND	0.0050	0.00055	03/15/21 17:43					
Cobalt		mg/L	ND	0.0050	0.00038	03/15/21 17:43					
Lead		mg/L	ND	0.0010	0.000036	03/15/21 17:43					
Lithium		mg/L	ND	0.030	0.00081	03/15/21 17:43					
Molybdenum		mg/L	ND	0.010	0.00069	03/15/21 17:43					
Selenium		mg/L	ND	0.0050	0.0016	03/15/21 17:43					

#### LABORATORY CONTROL SAMPLE: 3193006

		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	102	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	109	80-120	
Cadmium	mg/L	0.1	0.11	105	80-120	
Chromium	mg/L	0.1	0.11	105	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.11	105	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPI	IKE DUPL	ICATE: 3193	007		3193008								
			MS	MSD									
		92525931001	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	103	104	75-125	1	20		
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	103	75-125	2	20		
Barium	mg/L	0.025	0.1	0.1	0.13	0.13	100	101	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
Pace Project No.:	92525931

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3193	007		3193008							
Parameter	Units	92525931001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	mg/L	0.000099J	0.1	0.1	0.097	0.096	97	96	75-125	1	20	
Boron	mg/L	ND	1	1	0.98	0.97	98	97	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.11	0.10	106	105	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	101	99	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.098	0.099	97	99	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	101	104	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:	YATES	5											
Pace Project No.:	925259	931											
QC Batch:	6055	56		Analy	sis Metho	od:	EPA 7470A						
QC Batch Method:	EPA	7470A		Analy	/sis Descr	iption:	7470 Mercu	ury					
				Labo	ratory:		Pace Analy	tical Servio	ces - Peach	tree Corne	rs, GA		
Associated Lab Sar	mples:	925259310 925259310	001, 9252593100 008, 9252593100	12, 9252593 19, 9252593	1003, 925 1010	525931004,	925259310	05, 92525	931006, 92	525931007	7,		
METHOD BLANK:	319011	11			Matrix: W	Vater							
Associated Lab Sar	mples:	925259310 925259310	001, 9252593100 008, 9252593100	2, 9252593 9, 9252593	1003, 925 1010	525931004,	925259310	05, 92525	931006, 92	525931007	,		
				Blar	nk	Reporting							
Para	meter		Units	Res	ult	Limit	MD	L	Analyzed	Qı	ualifiers		
Mercury			mg/L		ND	0.0002	20 0.0	000078 (	)3/11/21 11:	23			
LABORATORY CO	NTROL	SAMPLE:	3190112										
				Spike	LC	CS	LCS	% F	Rec				
Para	meter		Units	Conc.	Re	sult	% Rec	Lim	nits	Qualifiers			
Mercury			mg/L	0.002	5	0.0024	g	07	80-120				
MATRIX SPIKE & M	MATRIX	SPIKE DUP	LICATE: 3190	113		3190114	4						
				MS	MSD								
Danassata	_	1.1.4.11-	92526541001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	Quel
Paramete	r	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	<u>крр</u>	<u>крр</u>	Qual
Mercury		mg/L	ND	0.0025	0.0025	0.0023	0.0024	91	94	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											
Pace Project No.:	92525931											
QC Batch:	605942		Analy	sis Metho	od:	EPA 7470A						
QC Batch Method:	EPA 7470A		Analy	/sis Descr	iption:	7470 Mercu	iry					
			Labo	ratory:		Pace Analy	ical Servi	ices - Peach	tree Corne	ers, GA		
Associated Lab Sa	mples: 92525931	011, 9252593101	2									
METHOD BLANK:	3192294			Matrix: W	Vater							
Associated Lab Sa	mples: 92525931	011, 9252593101	2									
			Blar	nk	Reporting							
Para	meter	Units	Res	ult	Limit	MD	L	Analyzed	Q	ualifiers		
Mercury		mg/L		ND	0.0002	0.0	00078	03/12/21 09	24			
LABORATORY CO	NTROL SAMPLE:	3192295										
			Spike	LC	CS	LCS	%	Rec				
Para	meter	Units	Conc.	Re	sult	% Rec	Lir	nits	Qualifiers			
Mercury		mg/L	0.002	5	0.0024	9	7	80-120				
MATRIX SPIKE & M	MATRIX SPIKE DUP	LICATE: 3192	296		3192297	7						
			MS	MSD					_			
Dana		92525931011	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	Qual
Paramete			Conc.	Conc.	Result	Result	% Kec	% KeC	LIMITS	RPD		Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0024	9	7 97	75-125	C	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	5							
Pace Project No.:	92525	931							
QC Batch:	6047	65		Analysis M	ethod:	SM 2450C-20	)11		
QC Batch Method:	SM 2	2450C-2011		Analysis De	escription:	2540C Total D	Dissolved Solids	3	
				Laboratory	:	Pace Analytic	al Services - Pe	eachtree	e Corners, GA
Associated Lab Sa	mples:	92525931	001, 925259310	02, 92525931003,	92525931004	, 92525931005	5, 92525931006	3	
METHOD BLANK:	31863	10		Matrix	x: Water				
Associated Lab Sa	mples:	92525931	001, 925259310	02, 92525931003,	92525931004	, 9252593100	5, 92525931006	3	
				Blank	Reporting				
Para	meter		Units	Result	Limit	MDL	Analy	yzed	Qualifiers
Total Dissolved Sol	lids		mg/L	NE	0 10	0.0	10.0 03/06/2	1 12:29	
LABORATORY CO	NTROL	SAMPLE:	3186311						
				Spike	LCS	LCS	% Rec		
Para	meter		Units	Conc.	Result	% Rec	Limits	Qua	alifiers
Total Dissolved Sol	lids		mg/L	400	371	93	90-111	l	
SAMPLE DUPLICA	λΤΕ: 3	186312							
				92525346009	Dup		Max		
Para	meter		Units	Result	Result	RPD		'	Qualifiers
Total Dissolved Sol	lids		mg/L	217	7 2	20	1	10	
SAMPLE DUPLICA	ATE: 3	186313							
_				92525824003	Dup		Max		0 11
Para	meter		Units	Result	Result	KPD	RPD	, 	Qualifiers
Total Dissolved Sol	lids		mg/L	45.0	D 6'	1.0	30	10 D	)6

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	5							
Pace Project No.:	92525	931							
QC Batch:	6048	395		Analysis M	ethod:	SM 2450C-20	)11		
QC Batch Method:	SM 2	2450C-2011		Analysis De	escription:	2540C Total D	Dissolved Solids	i	
				Laboratory	:	Pace Analytic	al Services - Pe	achtree	Corners, GA
Associated Lab Sa	mples:	92525931	007, 925259310	08, 92525931009,	92525931010	, 92525931011	, 92525931012		
METHOD BLANK:	31869	21		Matrix	x: Water				
Associated Lab Sa	mples:	92525931	007, 925259310	08, 92525931009,	92525931010	, 92525931011	, 92525931012		
				Blank	Reporting				
Para	meter		Units	Result	Limit	MDL	Analy	zed	Qualifiers
Total Dissolved Sol	ids		mg/L	NE	0 10	0.0	10.0 03/08/21	11:05	
LABORATORY CO	NTROL	SAMPLE:	3186922						
				Spike	LCS	LCS	% Rec		
Para	meter		Units	Conc.	Result	% Rec	Limits	Qua	lifiers
Total Dissolved Sol	ids		mg/L	400	387	97	90-111		
SAMPLE DUPLICA	ATE: 3	186923							
_				92526103001	Dup		Max		
Para	meter		Units	Result	Result	RPD	RPD		Qualifiers
Total Dissolved Sol	ids		mg/L	154	4 3	11	68	10 D	6
SAMPLE DUPLICA	ATE: 3	186924							
_				92525936007	Dup		Max		0 ""
Para	meter		Units	Result	Result	RPD	RPD		Qualifiers
Total Dissolved Sol	ids		mg/L	856	6 8	78	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.



Project:	YATES														
Pace Project No.:	92525931														
QC Batch:	606456			Anal	ysis Meth	nod:	EF	PA 300.0 F	Rev 2.1	1993					
QC Batch Method:	EPA 300.0 R	ev 2.	1 1993	Anal	ysis Desc	cription:	30	0.0 IC Ani	ions						
				Labo	oratory:		Pa	ace Analyt	ical Ser	vices - As	heville				
Associated Lab Sar	mples: 92525	9310	01, 9252593100	2, 9252593	31003										
METHOD BLANK:	3195140				Matrix:	Water									
Associated Lab Sa	mples: 92525	9310	01, 9252593100	2, 9252593	31003										
				Blai	nk	Reporting									
Para	meter		Units	Res	ult	Limit		MDI	-	Analy	zed	Qu	alifiers		
Chloride			mg/L		ND		1.0		0.60	03/13/21	20:29				
Fluoride			mg/L		ND	0.	10		0.050	03/13/21	20:29				
Sulfate			mg/L		ND	í	1.0		0.50	03/13/21	20:29				
LABORATORY CO	NTROL SAMPL	:	3195141												
				Spike	l	CS		LCS	%	6 Rec					
Para	meter		Units	Conc.	R	esult	9	% Rec	L	imits	Qu	alifiers	_		
Chloride			mg/L	5	50	48.5		97	7	90-110					
Fluoride			mg/L	2	.5	2.5		100	)	90-110					
Sulfate			mg/L	5	50	51.4		103	3	90-110					
MATRIX SPIKE & N	MATRIX SPIKE I	DUPL	_ICATE: 3195	142		319514	13								
				MS	MSD										
			92525335019	Spike	Spike	MS		MSD	MS	MSI	) (	% Rec		Max	
Paramete	r L	nits	Result	Conc.	Conc.	Result		Result	% Re	c % Re	ЭC	Limits	RPD	RPD	Qual
Chloride	n	ng/L	0.99J	50	5	0 52.8	3	52.3	1	04	103	90-110	1	10	
Fluoride	n	ig/L	0.10	2.5	2.	5 2.7	7	2.7	1	06	104	90-110	2	10	
Sulfate	n	ıg/L	9.6	50	5	0 65.5	5	64.7	1	12	110	90-110	1	10	M1
MATRIX SPIKE & M	MATRIX SPIKE I	DUPL	_ICATE: 3195	144		319514	45								
				MS	MSD										
			92525346005	Spike	Spike	MS		MSD	MS	MSI	) (	% Rec		Max	
Paramete	r	nits	Result	Conc.	Conc.	Result	_	Result	% Re	c%Re	ec	Limits	RPD	RPD	Qual
Chloride	n	ng/L	16.6	50	5	0 66.4	1	68.7	1	00	104	90-110	3	10	
Fluoride	n	ng/L	ND	2.5	2.	5 2.5	5	2.6		98	103	90-110	5	10	
Sulfate	n	ng/L	88.8	50	5	0 115	5	117		53	56	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.

### **REPORT OF LABORATORY ANALYSIS**

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Project:	YATES	;												
Pace Project No .:	925259	931												
QC Batch:	60649	96		Analy	sis Metho	d: I	EPA 300.0 F	Rev 2.1 1	993					
QC Batch Method:	EPA 3	300.0 Rev 2	1 1993	Analy	vsis Descri	ption:	300.0 IC Ani	ions						
				Labo	ratory:		Pace Analvt	ical Serv	rices - Ash	eville				
Associated Lab Sar	nples:	925259310 925259310	004, 9252593100 011, 9252593101	)5, 9252593 12	31006, 925	25931007,	9252593100	08, 9252	5931009,	925259	931010	),		
METHOD BLANK:	319531	15	Analysis Method:         EPA 300.0 Rev 2.1 1993           Rev 2.1 1993         Analysis Description:         300.0 IC Anions           Laboratory:         Pace Analytical Services - Asheville           5931004, 92525931005, 92525931006, 92525931007, 92525931008, 92525931009, 92525931010,           5931011, 92525931005, 92525931007, 92525931008, 92525931009, 92525931010,           593101, 92525931005, 92525931007, 92525931008, 92525931009, 92525931010,           593101, 9252593102           Matrix: Water           593101, 9252593102           Blank         Reporting           Imits         Result           mg/L         ND           ND         0.10         0.050           0.50         03/14/21 21:28           LE:         3195316           LE:         3195316           Qualifiers         Qualifiers           mg/L         50         46.5         93           mg/L         50         46.8         94         90-110           DUPLICATE:         3195317         3195318         Qualifiers           s2525931004         Spike         MS         MSD         MS           s2525931004         Spike         Spike         NS         MSD           mg/L         1.8											
Associated Lab Sar	nples:	925259310 925259310	004, 9252593100 011, 9252593101	)5, 9252593 12	31006, 925	25931007,	9252593100	08, 9252	5931009,	925259	931010	),		
_				Blai	nk	Reporting					-			
Parar	neter		Units	Res	ult	Limit	MDL		Analyz	ed	Qu	alifiers		
Chloride			mg/L		ND	1.	0	0.60	03/14/21	21:28				
Fluoride			mg/L		ND	0.1	0	0.050	03/14/21	21:28				
Sulfate			mg/L		ND	1.	0	0.50	03/14/21	21:28				
LABORATORY CO	NTROL	SAMPLE:	3195316											
Parar	neter		Units	Spike Conc.	LC Res	S Sult	LCS % Rec	% Lii	Rec mits	Qual	lifiers			
Chloride			mg/L	5	50	46.5	93	3	90-110			_		
Fluoride			mg/L	2	.5	2.7	107	7	90-110					
Sulfate			mg/L	5	50	46.8	94	1	90-110					
MATRIX SPIKE & M		SPIKE DUP	LICATE: 3195	5317		3195318	}							
				MS	MSD									
			92525931004	Spike	Spike	MS	MSD	MS	MSD	%	Rec		Max	
Paramete	r	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Re	c Li	mits	RPD	RPD	Qual
Chloride		mg/L	1.8	50	50	50.1	49.8	9	7	96 9	0-110	1	10	
Fluoride		mg/L	ND	2.5	2.5	2.8	2.8	11	1 1	11 9	0-110	0	10	M1
Sulfate		mg/L	61.7	50	50	98.6	98.0	7	4	73 9	0-110	1	10	M1
MATRIX SPIKE & M	/ATRIX :	SPIKE DUP	LICATE: 3195	5319		3195320	)							
				MS	MSD									
			92525936002	Spike	Spike	MS	MSD	MS	MSD	%	Rec		Max	
Paramete	r	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Re	c Li	mits	RPD	RPD	Qual
Chloride		mg/L	22.9	50	50	67.6	70.1	8	9	94 9	0-110	4	10	M1
Fluoride		mg/L	0.14	2.5	2.5	2.4	2.6	9	1	97 9	0-110	6	10	
Sulfate		mg/L	91.7	50	50	126	124	7	0	65 9	90-110	2	10	M1

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### **REPORT OF LABORATORY ANALYSIS**

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### QUALIFIERS

Project: YATES Pace Project No.: 92525931

#### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

**RPD** - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

#### ANALYTE QUALIFIERS

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: YATES Pace Project No.: 92525931

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525931001	YGWC-24SA				
92525931002	YGWC-36A				
92525931004	YGWC-23S				
92525931005	YGWC-41				
92525931006	YGWC-43				
92525931009	YGWC-49				
92525931011	YGWC-42				
92525931012	YGWC-38				
92525931001	YGWC-24SA	EPA 3010A	606033	EPA 6010D	606330
92525931002	YGWC-36A	EPA 3010A	606033	EPA 6010D	606330
92525931003	DUP-2	EPA 3010A	606033	EPA 6010D	606330
92525931004	YGWC-23S	EPA 3010A	606033	EPA 6010D	606330
92525931005	YGWC-41	EPA 3010A	606033	EPA 6010D	606330
92525931006	YGWC-43	EPA 3010A	606033	EPA 6010D	606330
92525931007	FB-1	EPA 3010A	606033	EPA 6010D	606330
92525931008	EB-2	EPA 3010A	606033	EPA 6010D	606330
92525931009	YGWC-49	EPA 3010A	606033	EPA 6010D	606330
92525931010	FB-02	EPA 3010A	606033	EPA 6010D	606330
92525931011	YGWC-42	EPA 3010A	606033	EPA 6010D	606330
92525931012	YGWC-38	EPA 3010A	606033	EPA 6010D	606330
92525931001	YGWC-24SA	EPA 3005A	606045	EPA 6020B	606338
92525931002	YGWC-36A	EPA 3005A	606045	EPA 6020B	606338
92525931003	DUP-2	EPA 3005A	606045	EPA 6020B	606338
92525931004	YGWC-23S	EPA 3005A	606045	EPA 6020B	606338
92525931005	YGWC-41	EPA 3005A	606045	EPA 6020B	606338
92525931006	YGWC-43	EPA 3005A	606045	EPA 6020B	606338
92525931007	FB-1	EPA 3005A	606045	EPA 6020B	606338
92525931008	EB-2	EPA 3005A	606045	EPA 6020B	606338
92525931009	YGWC-49	EPA 3005A	606045	EPA 6020B	606338
92525931010	FB-02	EPA 3005A	606045	EPA 6020B	606338
92525931011	YGWC-42	EPA 3005A	606045	EPA 6020B	606338
92525931012	YGWC-38	EPA 3005A	606045	EPA 6020B	606338
92525931001	YGWC-24SA	EPA 7470A	605556	EPA 7470A	605621
92525931002	YGWC-36A	EPA 7470A	605556	EPA 7470A	605621
92525931003	DUP-2	EPA 7470A	605556	EPA 7470A	605621
92525931004	YGWC-23S	EPA 7470A	605556	EPA 7470A	605621
92525931005	YGWC-41	EPA 7470A	605556	EPA 7470A	605621
92525931006	YGWC-43	EPA 7470A	605556	EPA 7470A	605621
92525931007	FB-1	EPA 7470A	605556	EPA 7470A	605621
92525931008	EB-2	EPA 7470A	605556	EPA 7470A	605621
92525931009	YGWC-49	EPA 7470A	605556	EPA 7470A	605621
92525931010	FB-02	EPA 7470A	605556	EPA 7470A	605621
92525931011	YGWC-42	EPA 7470A	605942	EPA 7470A	606185
92525931012	YGWC-38	EPA 7470A	605942	EPA 7470A	606185
92525931001	YGWC-24SA	SM 2450C-2011	604765		
92525931002	YGWC-36A	SM 2450C-2011	604765		



### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	YATES
Pace Project No.:	92525931

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525931003	DUP-2	SM 2450C-2011	604765		
92525931004	YGWC-23S	SM 2450C-2011	604765		
92525931005	YGWC-41	SM 2450C-2011	604765		
92525931006	YGWC-43	SM 2450C-2011	604765		
92525931007	FB-1	SM 2450C-2011	604895		
92525931008	EB-2	SM 2450C-2011	604895		
92525931009	YGWC-49	SM 2450C-2011	604895		
92525931010	FB-02	SM 2450C-2011	604895		
92525931011	YGWC-42	SM 2450C-2011	604895		
92525931012	YGWC-38	SM 2450C-2011	604895		
92525931001	YGWC-24SA	EPA 300.0 Rev 2.1 1993	606456		
92525931002	YGWC-36A	EPA 300.0 Rev 2.1 1993	606456		
92525931003	DUP-2	EPA 300.0 Rev 2.1 1993	606456		
92525931004	YGWC-23S	EPA 300.0 Rev 2.1 1993	606496		
92525931005	YGWC-41	EPA 300.0 Rev 2.1 1993	606496		
92525931006	YGWC-43	EPA 300.0 Rev 2.1 1993	606496		
92525931007	FB-1	EPA 300.0 Rev 2.1 1993	606496		
92525931008	EB-2	EPA 300.0 Rev 2.1 1993	606496		
92525931009	YGWC-49	EPA 300.0 Rev 2.1 1993	606496		
92525931010	FB-02	EPA 300.0 Rev 2.1 1993	606496		
92525931011	YGWC-42	EPA 300.0 Rev 2.1 1993	606496		
92525931012	YGWC-38	EPA 300.0 Rev 2.1 1993	606496		

0	Document Na	me:		Document Revise	ad: October 28, 2020	
Pace Analytical	Sample Condition Upon Document N	Receipt(SCI	JR)	Issuing	Authority:	
	F-CAR-CS-033-F	lev.07		Pace Carolin	as Quality Office	
oratory receiving samples: heville Eden Greenwood	Huntersville	Raleigh[	] Me	chanicsville	Atlanta Ker	nersville
Jpon Receipt	Power	Pro	ject #:			
rler:	IPS USPS Other:	Geren		92525931		
dy Seal Present? Yes	Seals Intact? . Yes	No		Date/Initials Perso	n Examining Contents:	75/21
ng Material: 🛛 Bubble Wrap	Bubble Bags PNone	Oth	er	Biol	ogical Tissue Frozen?	174-
nometer: DIR Gun ID: 230	Type of Ice:	Vet DBlu	• 🗆	tone	Eldo LINIA	
er Temp: <u>C.</u> Correction Add/Subt	Factor: $0, 0$ 2, 0		Ten	ip should be above Samples out of ten has begun	freezing to 6°C np criteria. Samples on ici	e, cooling process
A Regulated Soil ( N/A, water sample) amples originate in a quarantine zone within t Yes No	he United States: CA, NY, or SC	(check map	s)? Did incl	samples originate fro uding Hawaii and Pue Comm	m a foreign source ('nter rto Rico)? Yes	nationally, No
at it at a standy because 1			1			
Chain of Custody Present?			-			
Samples Arrived within Hold Time?	Lates LINO		3			and a set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set o
Short Hold Time Analysis (<72 hr.)?			4			
Rush Turn Around Time Requested?						
Sufficient Volume?	Eres No		5.			
Correct Containers Used? -Pace Containers Used?	Tres INO		6.		4.149.000.000.000.000.000.000.000.000.000.0	
Containers Intact?	Bres DNO	DN/A	7.			
Dissolved analysis: Samples Field Filtered?	Yes- No	EN/A	8.			
Sample Labels Match COC?	TYes No		9.			4
-Includes Date/Time/ID/Analysis Matrix	W			and a state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the		
Headspace in VOA Vials (>5-6mm)?		UN/A	10.			www.eyeeseeseegeveereegevee
Trip Blank Present?	TYes No	(IN/A)	11.			
Trip Blank Custody Seals Present?	Yes No	EN/A		ayanaa ahkinaa ah ayaa ahkinaa ah ay		
COMMENTS/SAMPLE DISCREPANCY					Field Data Required	? []Yes []No
			lati	D of split container	<:	
LIENT NOTIFICATION/RESOLUTION			LOUT			
Person contacted		Date/	fime.			
	· · · · · ·			Date		
Project Manager SCURF Review:				vate;	and and the second second second second second second second second second second second second second second s	

D	Document Name: Sample Condition Upon Receip	t(SCUR)	Document Revised: October 28, 2020 Page 2 of 2
/ Pace Analytical	Document No.: F-CAR-CS-033-Rev.07		Issuing Authority:
rk top half of box if pH a	nd/or dechlorination is	Project #	WO#:92525931

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

Due Date: 03/19/21

CLIENT: GA-GA Power

PM: KLH1

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg \*\*Bottom half of box is to list number of bottles

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}	BP4S-125 mL Plastic H2SO4 (pH < 2) (CI-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP42-125 mL Piastic ZN Acetate & NaOH (>9)	BP4C-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 NH4CI (N/A)(CI-)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 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)	NN	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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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.

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Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

March 17, 2021

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

RE: Project: YATES Pace Project No.: 92525936

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on March 05, 2021. 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,

Kandony

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR Lauren Coker, Georgia Pwer Geoffrey Gay, ARCADIS - Atlanta Kristen Jurinko Kelley Sharpe, ARCADIS - Atlanta Alex Simpson, Arcadis Samantha Thomas Maribel Vital





Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

### CERTIFICATIONS

Project: YATES Pace Project No.: 92525936

#### **Pace Analytical Services Charlotte**

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

#### Pace Analytical Services Asheville

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

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

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

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



Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

### SAMPLE SUMMARY

Project: YATES Pace Project No.: 92525936

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92525936001	YAMW-2	Water	03/03/21 14:10	03/05/21 09:20
92525936002	YAMW-4	Water	03/03/21 13:05	03/05/21 09:20
92525936003	YAMW-5	Water	03/04/21 14:15	03/05/21 09:20
92525936004	YAMW-1	Water	03/03/21 15:15	03/05/21 09:20
92525936005	PZ-35	Water	03/04/21 15:30	03/05/21 09:20
92525936006	EB1	Water	03/04/21 16:00	03/05/21 09:20
92525936007	PZ-37	Water	03/04/21 11:55	03/05/21 09:20



### SAMPLE ANALYTE COUNT

Project: Pace Project No	YATES .: 92525936			
_ab ID	Sample ID	Method	Analysts	Analytes Reported
92525936001	YAMW-2	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
2525936002	YAMW-4	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
2525936003	YAMW-5	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
2525936004	YAMW-1	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
2525936005	PZ-35	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525936006	EB1	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
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2525936007	PZ-37	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte



### SAMPLE ANALYTE COUNT

Project: Pace Project No.:	YATES 92525936			
Lab ID S	Sample ID	Method	Analysts	Analytes Reported

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



## SUMMARY OF DETECTION

Project: YATES

Pace Project No.: 92525936

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525936001	YAMW-2					
	Performed by	CUSTOME			03/08/21 09:05	
	рН	5.67	Std. Units		03/08/21 09:05	
EPA 6010D	Calcium	1.5	mg/L	1.0	03/12/21 20:36	
EPA 6020B	Barium	0.0082	mg/L	0.0050	03/15/21 19:32	
EPA 6020B	Boron	0.032J	ma/L	0.040	03/15/21 19:32	
EPA 6020B	Chromium	0.0012J	ma/L	0.0050	03/15/21 19:32	
EPA 6020B	Cobalt	0.00082J	ma/l	0.0050	03/15/21 19:32	
EPA 6020B	Lead	0.000080.1	mg/l	0.0010	03/15/21 19:32	
SM 2450C-2011	Total Dissolved Solids	40.0	mg/L	10.0	03/06/21 12:30	
EPA 300 0 Rev 2 1 1993	Chloride	25	mg/L	10	03/15/21 02:05	
EPA 300.0 Rev 2.1 1993	Sulfate	7.9	mg/L	1.0	03/15/21 02:05	
92525936002	YAMW-4					
	Performed by	CUSTOME			03/08/21 09:05	
	-11	R			00/00/04 00:05	
	рн Oslainn	6.80	Sta. Units	1.0	03/08/21 09:05	
EPA 6010D		20.6	mg/L	1.0	03/12/21 21:05	
EPA 6020B	Antimony	0.00062J	mg/L	0.0030	03/15/21 19:38	
EPA 6020B	Arsenic	0.00079J	mg/L	0.0050	03/15/21 19:38	
EPA 6020B	Barium	0.021	mg/L	0.0050	03/15/21 19:38	
EPA 6020B	Boron	0.81	mg/L	0.040	03/15/21 19:38	
EPA 6020B	Cobalt	0.0010J	mg/L	0.0050	03/15/21 19:38	
EPA 6020B	Lead	0.000096J	mg/L	0.0010	03/15/21 19:38	
EPA 6020B	Lithium	0.020J	mg/L	0.030	03/15/21 19:38	
EPA 6020B	Molybdenum	0.0049J	mg/L	0.010	03/15/21 19:38	
SM 2450C-2011	Total Dissolved Solids	245	mg/L	10.0	03/06/21 12:30	
EPA 300.0 Rev 2.1 1993	Chloride	22.9	mg/L	1.0	03/15/21 02:20	M1
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	03/15/21 02:20	
EPA 300.0 Rev 2.1 1993	Sulfate	91.7	mg/L	1.0	03/15/21 02:20	M1
92525936003	YAMW-5					
	Performed by	CUSTOME R			03/08/21 09:05	
	рН	5.32	Std. Units		03/08/21 09:05	
EPA 6010D	, Calcium	53.8	ma/L	1.0	03/12/21 21:10	
EPA 6020B	Barium	0.039	ma/L	0.0050	03/15/21 19:43	
EPA 6020B	Bervllium	0.00013J	mg/L	0.00050	03/15/21 19:43	
EPA 6020B	Boron	61	mg/l	0.040	03/15/21 19:43	
EPA 6020B	Cadmium	0.00018.1	mg/L	0.0050	03/15/21 10:10	
EPA 6020B	Lead	0.000100	mg/L	0.00000	03/15/21 10:43	
EPA 6020B	Lithium	0.0000413	mg/L	0.0010	03/15/21 19:43	
EPA 6020B	Solonium	0.0105	mg/L	0.030	03/15/21 19:43	
SM 2450C-2011	Total Dissolved Solida	0.001	mg/L	0.0030	03/08/21 13.43	
SM 2450C-2011	Chlorida	004	mg/∟	20.0	03/06/21 11:00	
EPA 300.0 Rev 2.1 1993		3.7	mg/L	1.0	03/15/21 03:04	
EPA 300.0 Rev 2.1 1993	Suirate	340	mg/∟	8.0	03/15/21 16:46	
92525936004	YAMW-1	<b>•</b> ••••••				
	Performed by	CUSTOME R			03/08/21 09:05	



## SUMMARY OF DETECTION

Project: YATES

Pace Project No.: 92525936

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525936004	YAMW-1					
	рН	6.54	Std. Units		03/08/21 09:05	
EPA 6010D	Calcium	6.9	mg/L	1.0	03/12/21 21:15	
EPA 6020B	Antimony	0.025	mg/L	0.0030	03/15/21 20:00	
EPA 6020B	Barium	0.035	mg/L	0.0050	03/15/21 20:00	
EPA 6020B	Boron	0.039J	mg/L	0.040	03/15/21 20:00	
EPA 6020B	Chromium	0.00076J	mg/L	0.0050	03/15/21 20:00	
EPA 6020B	Cobalt	0.018	mg/L	0.0050	03/15/21 20:00	
EPA 6020B	Lithium	0.022J	mg/L	0.030	03/15/21 20:00	
EPA 6020B	Molybdenum	0.0037J	mg/L	0.010	03/15/21 20:00	
SM 2450C-2011	Total Dissolved Solids	121	mg/L	10.0	03/06/21 12:30	
EPA 300.0 Rev 2.1 1993	Chloride	6.1	mg/L	1.0	03/15/21 03:49	
EPA 300.0 Rev 2.1 1993	Sulfate	16.9	mg/L	1.0	03/15/21 03:49	
92525936005	PZ-35					
:525936004         PA 6010D         PA 6020B         PA 6020B         PA 6020B         PA 6020B         PA 6020B         PA 6020B         PA 6020B         PA 6020B         PA 6020B         PA 6020B         PA 6020B         PA 6020B         PA 300.0 Rev 2.1 1993 <b>!525936005</b>	Performed by	CUSTOME			03/08/21 09:05	
	θΗ	к 5.64	Std. Units		03/08/21 09:05	
EPA 6010D	Calcium	4 4	ma/l	10	03/12/21 21:20	
EPA 6020B	Antimony	0.00039.1	ma/l	0.0030	03/15/21 20:06	
EPA 6020B	Barium	0.033	mg/L	0.0050	03/15/21 20:06	
EPA 6020B	Bervllium	0.00025.1	mg/l	0.00050	03/15/21 20:06	
EPA 6020B	Boron	0.012J	mg/L	0.040	03/15/21 20:06	
EPA 6020B	Chromium	0.00070J	mg/L	0.0050	03/15/21 20:06	
EPA 6020B	Lead	0.00015J	mg/L	0.0010	03/15/21 20:06	
EPA 6020B	Lithium	0.0015J	mg/L	0.030	03/15/21 20:06	
SM 2450C-2011	Total Dissolved Solids	59.0	mg/L	10.0	03/08/21 11:06	
EPA 300.0 Rev 2.1 1993	Chloride	6.7	ma/L	1.0	03/15/21 04:04	
EPA 300.0 Rev 2.1 1993	Sulfate	8.8	mg/L	1.0	03/15/21 04:04	
92525936007	PZ-37					
	Performed by	CUSTOME R			03/08/21 09:05	
	рН	5.51	Std. Units		03/08/21 09:05	
EPA 6010D	Calcium	118	mg/L	1.0	03/12/21 21:29	
EPA 6020B	Barium	0.036	mg/L	0.0050	03/15/21 20:18	
EPA 6020B	Beryllium	0.00017J	mg/L	0.00050	03/15/21 20:18	
EPA 6020B	Boron	12.4	mg/L	0.40	03/16/21 16:17	
EPA 6020B	Cadmium	0.00028J	mg/L	0.00050	03/15/21 20:18	
EPA 6020B	Cobalt	0.0030J	mg/L	0.0050	03/15/21 20:18	
EPA 6020B	Lithium	0.028J	mg/L	0.030	03/15/21 20:18	
EPA 6020B	Molybdenum	0.0024J	mg/L	0.010	03/15/21 20:18	
EPA 6020B	Selenium	0.27	mg/L	0.0050	03/15/21 20:18	
SM 2450C-2011	Total Dissolved Solids	856	mg/L	20.0	03/08/21 11:07	
EPA 300.0 Rev 2.1 1993	Chloride	3.9	mg/L	1.0	03/15/21 04:34	
EPA 300.0 Rev 2.1 1993	Sulfate	485	mg/L	11.0	03/15/21 17:00	



Project:	YATES

Pace Project No.: 92525936

Sample: YAMW-2	Lab ID:	Collected: 03/03/21 14:10			Received: 03/05/21 09:20 Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Pace Ana	Method:	- Charlotte						
Performed by	CUSTOME				1		03/08/21 09:05		
рН	5.67	Std. Units			1		03/08/21 09:05		
6010D ATL ICP	Analytical Pace Ana	Method: EPA	6010D Prej - Peachtre	paration Me e Corners, C	thod: El GA	PA 3010A			
Calcium	1.5	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 20:36	7440-70-2	
6020 MET ICPMS	Analytical Pace Ana	Method: EPA	6020B Prep - Peachtre	paration Met e Corners, C	thod: EF GA	PA 3005A			
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 19:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 19:32	7440-38-2	
Barium	0.0082	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 19:32	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 19:32	7440-41-7	
Boron	0.032J	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 19:32	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 19:32	7440-43-9	
Chromium	0.0012J	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 19:32	7440-47-3	
Cobalt	0.00082J	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 19:32	7440-48-4	
Lead	0.000080J	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 19:32	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 19:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 19:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 19:32	7782-49-2	
7470 Mercury	Analytical Pace Ana	Method: EPA	7470A Prep - Peachtre	paration Met e Corners, C	thod: EF GA	PA 7470A			
Mercury	ND	mg/L	0.00020	0.000078	1	03/11/21 15:15	03/12/21 09:41	7439-97-6	
2540C Total Dissolved Solids	Analytical Pace Ana	Method: SM 2	450C-2011 - Peachtre	e Corners, (	GA				
Total Dissolved Solids	40.0	mg/L	10.0	10.0	1		03/06/21 12:30		
300.0 IC Anions 28 Days	Analytical Pace Ana	Method: EPA	300.0 Rev 2 s - Asheville	2.1 1993					
Chloride	2.5	mg/L	1.0	0.60	1		03/15/21 02:05	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 02:05	16984-48-8	
Sulfate	7.9	ma/L	1.0	0.50	1		03/15/21 02:05	14808-79-8	



Project: YATES

Pace Project No.: 92525936

Sample: YAMW-4	Lab ID:	92525936002	Collecte	ed: 03/03/21	1 13:05	Received: 03/	/05/21 09:20 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytica	I Method:							
	Pace Ana	alytical Services	- Charlotte	;					
Performed by	CUSTOME				1		03/08/21 09:05		
рН	6.80	Std. Units			1		03/08/21 09:05		
6010D ATL ICP	Analytica	I Method: EPA	6010D Pre	paration Met	hod: E	PA 3010A			
	Pace Ana	alytical Services	- Peachtre	e Corners, G	βA				
Calcium	20.6	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 21:05	7440-70-2	
6020 MET ICPMS	Analytica	I Method: EPA	6020B Pre	paration Met	hod: El	PA 3005A			
	Pace Ana	alytical Services	- Peachtre	e Corners, C	<b>S</b> A				
Antimony	0.00062J	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 19:38	7440-36-0	
Arsenic	0.00079J	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 19:38	7440-38-2	
Barium	0.021	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 19:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 19:38	7440-41-7	
Boron	0.81	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 19:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 19:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 19:38	7440-47-3	
Cobalt	0.0010J	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 19:38	7440-48-4	
Lead	0.000096J	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 19:38	7439-92-1	
Lithium	0.020J	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 19:38	7439-93-2	
Molybdenum	0.0049J	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 19:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 19:38	7782-49-2	
7470 Mercury	Analytica	I Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A			
	Pace Ana	alytical Services	- Peachtre	e Corners, G	βA				
Mercury	ND	mg/L	0.00020	0.000078	1	03/11/21 15:15	03/12/21 09:43	7439-97-6	
2540C Total Dissolved Solids	Analytica	I Method: SM 2	450C-2011						
	Pace Ana	alytical Services	- Peachtre	e Corners, C	<b>SA</b>				
Total Dissolved Solids	245	mg/L	10.0	10.0	1		03/06/21 12:30		
300.0 IC Anions 28 Days	Analytica	I Method: EPA	300.0 Rev 2	2.1 1993					
-	Pace Ana	alytical Services	- Asheville						
Chloride	22.9	mg/L	1.0	0.60	1		03/15/21 02:20	16887-00-6	M1
Fluoride	0.14	mg/L	0.10	0.050	1		03/15/21 02:20	16984-48-8	
Sulfate	91.7	ma/L	1.0	0.50	1		03/15/21 02:20	14808-79-8	M1



Project: YATES

Pace Project No.: 92525936

Sample: YAMW-5	Lab ID:	92525936003	Collecte	ed: 03/04/2	1 14:15	Received: 03/	05/21 09:20 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytica Pace Ana	l Method:	- Charlotte						
		alytical Services		i					
Performed by	R				1		03/08/21 09:05		
рН	5.32	Std. Units			1		03/08/21 09:05		
6010D ATL ICP	Analytica Pace Ana	l Method: EPA	6010D Pre s - Peachtre	paration Me	thod: El GA	PA 3010A			
Calcium	53.8	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 21:10	7440-70-2	
6020 MET ICPMS	Analytica Pace Ana	l Method: EPA	6020B Pre s - Peachtre	paration Met e Corners, 0	thod: Ef GA	PA 3005A			
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 19:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 19:43	7440-38-2	
Barium	0.039	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 19:43	7440-39-3	
Beryllium	0.00013J	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 19:43	7440-41-7	
Boron	6.1	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 19:43	7440-42-8	
Cadmium	0.00018J	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 19:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 19:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 19:43	7440-48-4	
Lead	0.000041J	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 19:43	7439-92-1	
Lithium	0.016J	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 19:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 19:43	7439-98-7	
Selenium	0.061	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 19:43	7782-49-2	
7470 Mercury	Analytica Pace Ana	I Method: EPA	7470A Prej s - Peachtre	paration Met	thod: EF GA	PA 7470A			
Mercury	ND	mg/L	0.00020	0.000078	1	03/11/21 15:15	03/12/21 09:45	7439-97-6	
2540C Total Dissolved Solids	Analytica Pace Ana	l Method: SM 2 alytical Services	2450C-2011 s - Peachtre	e Corners, (	GA				
Total Dissolved Solids	604	mg/L	20.0	20.0	1		03/08/21 11:06		
300.0 IC Anions 28 Days	Analytica Pace Ana	I Method: EPA	300.0 Rev 2 s - Asheville	2.1 1993					
Chloride	3.7	mg/L	1.0	0.60	1		03/15/21 03:04	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 03:04	16984-48-8	
Sulfate	340	ma/L	8.0	4.0	8		03/15/21 16:46	14808-79-8	


## ANALYTICAL RESULTS

Project:	YATES

Pace Project No.: 92525936

Sample: YAMW-1	Lab ID:	92525936004	Collecte	ed: 03/03/2	1 15:15	Received: 03/	/05/21 09:20 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Pace Ana	Method:	- Charlotte						
Porformed by	CUSTOME		enanotto		1		02/08/21 00:05		
r enormed by	R						03/00/21 09:03		
рН	6.54	Std. Units			1		03/08/21 09:05		
6010D ATL ICP	Analytical Pace Ana	Method: EPA 6 lytical Services	010D Prep - Peachtre	oaration Me e Corners, 0	thod: EF GA	PA 3010A			
Calcium	6.9	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 21:15	7440-70-2	
6020 MET ICPMS	Analytical Pace Ana	Method: EPA 6 lytical Services	020B Prep - Peachtre	oaration Met e Corners, (	thod: EF GA	PA 3005A			
Antimony	0.025	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 20:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 20:00	7440-38-2	
Barium	0.035	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 20:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 20:00	7440-41-7	
Boron	0.039J	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 20:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 20:00	7440-43-9	
Chromium	0.00076J	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 20:00	7440-47-3	
Cobalt	0.018	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 20:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 20:00	7439-92-1	
Lithium	0.022J	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 20:00	7439-93-2	
Molybdenum	0.0037J	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 20:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 20:00	7782-49-2	
7470 Mercury	Analytical Pace Ana	Method: EPA 7 lytical Services	7470A Prep - Peachtre	paration Met e Corners, C	thod: EF GA	PA 7470A			
Mercury	ND	mg/L	0.00020	0.000078	1	03/11/21 15:15	03/12/21 09:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Pace Ana	Method: SM 24 lytical Services	450C-2011 - Peachtre	e Corners, (	GA				
Total Dissolved Solids	121	mg/L	10.0	10.0	1		03/06/21 12:30		
300.0 IC Anions 28 Days	Analytical Pace Ana	Method: EPA 3 lytical Services	300.0 Rev 2 - Asheville	2.1 1993					
Chloride	61	ma/l	10	0.60	1		03/15/21 03:49	16887-00-6	
Fluoride		mg/l	0.10	0.00	1		03/15/21 03:49	16984-48-8	
Sulfate	16.9	ma/L	1.0	0.50	1		03/15/21 03:49	14808-79-8	



YATES

Project:

## ANALYTICAL RESULTS

Pace Project No.: 92525936									
Sample: PZ-35	Lab ID:	92525936005	Collecte	ed: 03/04/21	1 15:30	Received: 03/	/05/21 09:20 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	ytical Services	- Charlotte	•					
Performed by	CUSTOME				1		03/08/21 09:05		
рН	5.64	Std. Units			1		03/08/21 09:05		
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Met	thod: E	PA 3010A			
	Pace Ana	ytical Services	- Peachtre	e Corners, G	ΒA				
Calcium	4.4	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 21:20	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Prej	paration Met	hod: E	PA 3005A			
	Pace Ana	ytical Services	- Peachtre	e Corners, G	ЭA				
Antimony	0.00039J	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 20:06	7440-36-0	
Arsenic	ND	ma/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 20:06	7440-38-2	
Barium	0.033	ma/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 20:06	7440-39-3	
Bervllium	0.00025J	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 20:06	7440-41-7	
Boron	0.012J	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 20:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 20:06	7440-43-9	
Chromium	0.00070J	ma/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 20:06	7440-47-3	
Cobalt	ND	ma/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 20:06	7440-48-4	
Lead	0.00015J	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 20:06	7439-92-1	
Lithium	0.0015J	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 20:06	7439-93-2	
Molvbdenum	ND	ma/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 20:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 20:06	7782-49-2	
7470 Mercury	Analytical	Method: EPA	7470A Prei	paration Met	hod: E	PA 7470A			
,,	Pace Ana	ytical Services	- Peachtre	e Corners, C	GA	-			
Mercury	ND	mg/L	0.00020	0.000078	1	03/11/21 15:15	03/12/21 09:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Pace Ana	Method: SM 2 lytical Services	450C-2011 - Peachtre	e Corners, G	GA				
Total Dissolved Solids	59.0	mg/L	10.0	10.0	1		03/08/21 11:06		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	ytical Services	s - Asheville						
Chloride	6.7	mg/L	1.0	0.60	1		03/15/21 04:04	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 04:04	16984-48-8	
Sulfate	8.8	mg/L	1.0	0.50	1		03/15/21 04:04	14808-79-8	



## ANALYTICAL RESULTS

Project:	YATES
Pace Project No ·	92525936

Sample: EB1	Lab ID:	92525936006	Collecte	ed: 03/04/2	1 16:00	Received: 03/	/05/21 09:20 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	thod: E	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	ЗA				
Calcium	ND	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 21:25	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: El	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	ЭA				
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 20:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 20:12	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 20:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 20:12	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 20:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 20:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 20:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 20:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 20:12	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 20:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 20:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 20:12	7782-49-2	
7470 Mercury	Analytical	Method: EPA 7	470A Pre	paration Met	hod: El	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	ΒA				
Mercury	ND	mg/L	0.00020	0.000078	1	03/11/21 15:15	03/12/21 09:57	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 24	450C-2011						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	ЗA				
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/08/21 11:07		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	ND	mg/L	1.0	0.60	1		03/15/21 04:19	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 04:19	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/15/21 04:19	14808-79-8	
		5 -							



YATES

Project:

## ANALYTICAL RESULTS

Pace Project No.: 92525936									
Sample: PZ-37	Lab ID:	92525936007	Collecte	d: 03/04/2 <sup>-</sup>	1 11:55	Received: 03/	/05/21 09:20 Ma	atrix: Water	
_			Report						_
Parameters	Results	Units	Limit	MDL		Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME				1		03/08/21 09:05		
рН	к 5.51	Std. Units			1		03/08/21 09:05		
6010D ATL ICP	Analytical	Method: EPA 6	010D Prep	aration Met	thod: El	PA 3010A			
	Pace Ana	lytical Services	- Peachtree	e Corners, C	GΑ				
Calcium	118	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 21:29	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	GΑ				
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 20:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 20:18	7440-38-2	
Barium	0.036	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 20:18	7440-39-3	
Beryllium	0.00017J	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 20:18	7440-41-7	
Boron	12.4	mg/L	0.40	0.052	10	03/12/21 11:07	03/16/21 16:17	7440-42-8	
Cadmium	0.00028J	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 20:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 20:18	7440-47-3	
Cobalt	0.0030J	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 20:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 20:18	7439-92-1	
Lithium	0.028J	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 20:18	7439-93-2	
Molybdenum	0.0024J	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 20:18	7439-98-7	
Selenium	0.27	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 20:18	7782-49-2	
7470 Mercury	Analytical	Method: EPA 7	470A Prep	aration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtree	e Corners, C	GΑ				
Mercury	ND	mg/L	0.00020	0.000078	1	03/11/21 15:15	03/12/21 10:00	7439-97-6	
2540C Total Dissolved Solids	Analytical Rese Ana	Method: SM 24	450C-2011	Corpora	~ ^				
	Face Ana		- reachine		, AC				
Iotal Dissolved Solids	856	mg/L	20.0	20.0	1		03/08/21 11:07		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	800.0 Rev 2	.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	3.9	mg/L	1.0	0.60	1		03/15/21 04:34	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 04:34	16984-48-8	
Sulfate	485	mg/L	11.0	5.5	11		03/15/21 17:00	14808-79-8	



Project:	YATES											
Pace Project No.:	92525936											
QC Batch:	606033		Anal	ysis Metho	d:	EPA 6010D						
QC Batch Method:	EPA 3010A		Anal	ysis Descr	iption:	6010D ATL						
			Labo	oratory:		Pace Analyt	ical Servic	es - Peacht	tree Corne	rs, GA		
Associated Lab Sar	mples: 92525936	001, 9252593600	2, 925259	36003, 925	25936004	, 9252593600	05, 925259	36006, 92	525936007	7		
METHOD BLANK:	3192886			Matrix: W	/ater							
Associated Lab Sar	mples: 92525936	001, 9252593600	2, 925259	36003, 925	25936004	, 9252593600	05, 925259	36006, 92	525936007	7		
			Bla	nk	Reporting							
Para	meter	Units	Res	sult	Limit	MDI	-	Analyzed	Qı	ualifiers		
Calcium		mg/L		ND	1	.0	0.070 03	3/12/21 19:	19			
LABORATORY CO	NTROL SAMPLE:	3192887										
			Spike	LC	S	LCS	% R	ес				
Para	meter	Units	Conc.	Re	sult	% Rec	Limi	ts (	Qualifiers			
Calcium		mg/L		1	1.1	11′	8	30-120		_		
MATRIX SPIKE & M	MATRIX SPIKE DUP	PLICATE: 3192	890		319289	)1						
			MS	MSD								
<b>D</b> .		92525936001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	<u> </u>
Paramete	er Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Calcium	mg/L	. 1.5	1	1	2.6	5 2.6	107	111	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:	YATES								
Pace Project No.:	925259	36							
QC Batch:	60604	15		Analysis Meth	nod:	EPA 6020B			
QC Batch Method:	EPA 3	8005A		Analysis Dese	cription:	6020 MET			
				Laboratory:		Pace Analytical Se	rvices - Peachtree	Corners, GA	
Associated Lab Sar	nples:	92525936001,	, 92525936002,	92525936003, 92	2525936004,	92525936005, 925	25936006, 92525	936007	
METHOD BLANK:	319300	5		Matrix:	Water				
Associated Lab Sar	nples:	92525936001,	, 92525936002,	92525936003, 92	2525936004,	92525936005, 925	25936006, 92525	936007	
				Blank	Reporting				
Parar	neter		Units	Result	Limit	MDL	Analyzed	Qualifiers	
Antimony			mg/L	ND	0.003	0.00028	03/15/21 17:43		
Arsenic			mg/L	ND	0.005	0.00078	03/15/21 17:43		
Barium			mg/L	ND	0.005	0.00071	03/15/21 17:43		
Beryllium			mg/L	ND	0.0005	0.000046	03/15/21 17:43		
Boron			mg/L	ND	0.04	0 0.0052	03/15/21 17:43		
Cadmium			mg/L	ND	0.0005	0.00012	03/15/21 17:43		
Chromium			mg/L	ND	0.005	0.00055	03/15/21 17:43		
Cobalt			mg/L	ND	0.005	0.00038	03/15/21 17:43		
Lead			mg/L	ND	0.001	0 0.000036	03/15/21 17:43		
Lithium			mg/L	ND	0.03	0.00081	03/15/21 17:43		
Molybdenum			mg/L	ND	0.01	0 0.00069	03/15/21 17:43		
Selenium			mg/L	ND	0.005	0.0016	03/15/21 17:43		

#### LABORATORY CONTROL SAMPLE: 3193006

		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	102	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	109	80-120	
Cadmium	mg/L	0.1	0.11	105	80-120	
Chromium	mg/L	0.1	0.11	105	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.11	105	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3193	007		3193008							
		92525931001	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Мах	
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	103	104	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	103	75-125	2	20	
Barium	mg/L	0.025	0.1	0.1	0.13	0.13	100	101	75-125	1	20	
Beryllium	mg/L	0.000099J	0.1	0.1	0.097	0.096	97	96	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.

### **REPORT OF LABORATORY ANALYSIS**

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Project: YATES Pace Project No.: 92525936

MATRIX SPIKE & MATRIX SI	PIKE DUPL	ICATE: 3193	007		3193008							
			MS	MSD								
		92525931001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Boron	mg/L	ND	1	1	0.98	0.97	98	97	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.11	0.10	106	105	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	101	99	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.098	0.099	97	99	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	101	104	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:	TATES											
Pace Project No.:	92525936											
QC Batch:	605942		Analys	sis Method	d:	EPA 7470A						
QC Batch Method:	EPA 7470A		Analys	sis Descrip	ption:	7470 Mercu	ry					
			Labora	atory:		Pace Analyt	ical Serv	/ices - Peac	htree Corn	ers, GA		
Associated Lab Sar	mples: 9252593	6001, 9252593600	2, 92525936	003, 9252	25936004,	925259360	05, 9252	25936006, 9	252593600	7		
METHOD BLANK:	3192294		Ν	Matrix: Wa	ater							
Associated Lab Sar	mples: 9252593	6001, 9252593600	2, 92525936	003, 9252	25936004,	925259360	05, 9252	25936006, 9	252593600	7		
			Blank	k l	Reporting							
Parar	meter	Units	Resul	t	Limit	MD	_	Analyze	d C	ualifiers	5	
					0.0000			00/40/04 0				
Mercury		mg/L		ND	0.0002	0.0	00078	03/12/21 0	9:24			
Mercury		mg/L		ND	0.0002	.0 0.0	00078	03/12/21 0	9:24			
LABORATORY CO	NTROL SAMPLE:	mg/L 3192295		ND	0.0002	.0 0.0	00078	03/12/21 0	9:24			
LABORATORY CO	NTROL SAMPLE:	mg/L 3192295	Spike	LC	0.0002	LCS	00078 %	Rec	9:24			
Mercury LABORATORY CO Parar	NTROL SAMPLE:	mg/L 3192295 Units	Spike Conc.	ND LC Res	S Sult	LCS % Rec	00078 % Li	Rec mits	9:24 Qualifiers			
Mercury LABORATORY CO Parar Mercury	NTROL SAMPLE:	mg/L 3192295 - Units - mg/L	Spike Conc. 0.0025	LC Res	S Sult 0.0024	LCS % Rec 9	00078 %  7	Rec mits 80-120	9:24 Qualifiers			
Mercury LABORATORY CO Parar Mercury	NTROL SAMPLE:	mg/L 3192295 - Units - mg/L	Spike Conc. 0.0025		5:S sult 0.0024	LCS % Rec 9	00078  7	Rec mits 80-120	Qualifiers			
Mercury LABORATORY CO Parar Mercury MATRIX SPIKE & M	NTROL SAMPLE: meter MATRIX SPIKE DU	mg/L 3192295 - <u>Units</u> mg/L PLICATE: 3192	Spike Conc. 0.0025		0.0002 S Sult 0.0024 3192297	LCS % Rec 9	00078 	Rec mits 80-120	Qualifiers			
Mercury LABORATORY CO Parar Mercury MATRIX SPIKE & M	NTROL SAMPLE: meter MATRIX SPIKE DU	mg/L 3192295 - <u>Units</u> - <u>mg/L</u> PLICATE: 3192	Spike Conc. 0.0025 296 MS Spike	ND LC Res MSD Spike	0.0002 Salt 0.0024 3192297	LCS % Rec 9 7	00078 	Rec mits 80-120	9:24 Qualifiers		Max	
Mercury LABORATORY CO Parar Mercury MATRIX SPIKE & N Paramete	NTROL SAMPLE: meter MATRIX SPIKE DU	mg/L 3192295 - Units mg/L PLICATE: 3192 92525931011 s Result	Spike Conc. 0.0025 296 MS Spike Conc.	ND LC Res MSD Spike Conc.	0.0002 Solut 0.0024 3192297 MS Result	LCS % Rec 9 7 MSD Result	00078 	Rec mits 80-120 MSD % Rec	Qualifiers % Rec Limits	RPD	Max 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	S									
Pace Project No.:	92525	936									
QC Batch:	6047	765		Analysis Me	ethod:	SM 2450C-2	011				
QC Batch Method:	SM 2	2450C-2011		Analysis De	escription:	2540C Total Dissolved Solids					
				Laboratory	:	Pace Analytic	cal Services - Pe	eachtree	Corners, GA		
Associated Lab Sar	mples:	92525936	6001, 9252593600	2, 92525936004							
METHOD BLANK:	31863	10		Matrix	k: Water						
Associated Lab Sar	mples:	92525936	001, 9252593600	2, 92525936004							
				Blank	Reporting						
Parar	meter		Units	Result	Limit	MDL	Analy	/zed	Qualifiers		
Total Dissolved Sol	ids		mg/L	NC	0 10	0.0	10.0 03/06/2	1 12:29			
LABORATORY CO	NTROL	SAMPLE:	3186311								
				Spike	LCS	LCS	% Rec				
Para	meter		Units	Conc.	Result	% Rec	Limits	Qua	alifiers		
Total Dissolved Sol	ids		mg/L	400	371	93	90-111				
SAMPLE DUPLICA	TE: 3	186312									
				92525346009	Dup		Max				
Para	meter		Units	Result	Result	RPD	RPD		Qualifiers		
Total Dissolved Sol	ids		mg/L	217	2	20	1	10			
SAMPLE DUPLICA	TE: 3	186313									
_				92525824003	Dup		Max		0 11		
Parai	neter		Units	Result	Result	RPD	RPD		Qualifiers		
Total Dissolved Sol	ids		mg/L	45.0	) 61	.0	30	10 D	6		

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									
Pace Project No.:	925259	936								
QC Batch:	60489	95		Analysis M	lethod:	SM 2450C-2	2011			
QC Batch Method:	SM 24	450C-2011		Analysis D	escription:	2540C Total	Dissolv	ved Solids		
				Laboratory	/:	Pace Analyt	ical Ser	vices - Pea	achtree	Corners, GA
Associated Lab Sat	mples:	92525936	6003, 9252593600	05, 92525936006	, 92525936007					
METHOD BLANK:	318692	21		Matri	x: Water					
Associated Lab Sar	mples:	92525936	6003, 9252593600	05, 92525936006	, 92525936007					
				Blank	Reporting					
Para	meter		Units	Result	Limit	MDL	-	Analyz	ed	Qualifiers
Total Dissolved Sol	ids		mg/L	N	D 10	).0	10.0	03/08/21	11:05	
LABORATORY CO	NTROL	SAMPLE:	3186922							
				Spike	LCS	LCS	%	6 Rec		
Para	meter		Units	Conc.	Result	% Rec	L	imits	Qua	lifiers
Total Dissolved Sol	ids		mg/L	400	387	97	7	90-111		
SAMPLE DUPLICA	TE: 31	86923								
				92526103001	Dup			Max		
Para	meter		Units	Result	Result		)	RPD		Qualifiers
Total Dissolved Sol	ids		mg/L	15	4 3	11	68		10 D6	6
SAMPLE DUPLICA	ATE: 31	86924								
				92525936007	7 Dup			Max		
Para	meter		Units	Result	Result	RPD	)	RPD		Qualifiers
Total Dissolved Sol	ids		mg/L	85	6 8	78	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.



Project:	Y	ATES											
Pace Project N	No.: 9	2525936											
QC Batch:		606496		Anal	ysis Metho	d:	EPA 300.0 F	Rev 2.1 19	993				
QC Batch Met	thod:	EPA 300.0 Rev	2.1 1993	Anal	ysis Descri	ption:	300.0 IC An	ions					
				Labo	oratory:		Pace Analyt	ical Servi	ces - Ashevi	lle			
Associated La	ıb Samp	les: 9252593	6001, 925259360	02, 9252593	36003, 925	25936004,	925259360	05, 92525	936006, 92	525936007			
METHOD BLA	ANK: 3	195315			Matrix: W	ater							
Associated La	b Samp	les: 9252593	6001, 925259360	02, 9252593	36003, 925	25936004,	925259360	05, 92525	936006, 92	525936007			
				Bla	nk	Reporting							
	Parame	ter	Units	Res	ult	Limit	MD	L	Analyzed	Qu	alifiers		
Chloride			mg/L		ND	1.	0	0.60 0	3/14/21 21:	28			
Fluoride			mg/L		ND	0.1	0	0.050 0	3/14/21 21:	28			
Sulfate			mg/L		ND	1.	0	0.50 0	)3/14/21 21:	28			
LABORATORY	Y CONT	ROL SAMPLE:	3195316	Snike		· c		% 6	Pec				
	Parame	ter	Units	Conc.	Res	sult	% Rec	/or Linn	nits (	Qualifiers			
Chlorido						46.5	0	2	00 110		_		
Fluoride			mg/L	2	5	40.5	9. 10	3 7	90-110				
Sulfate			mg/L	Ę	50	46.8	9	4	90-110				
MATRIX SPIK	E & MA	I RIX SPIKE DU	IPLICATE: 319	5317	MOD	3195318	5						
			92525931004	IVIJ Snika	MSD Snike	MS	MSD	MS	MSD	% Rec		Max	
Para	ameter	Uni	ts Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride		mg	/L 1.8	50	50	50.1	49.8	97	<b>'</b> 96	90-110	1	10	
Fluoride		mg	/L ND	2.5	2.5	2.8	2.8	111	111	90-110	0	10	M1
Sulfate		mg	/L 61.7	50	50	98.6	98.0	74	73	90-110	1	10	M1
MATRIX SPIK	E & MA		IPLICATE: 319	5319		3195320	)						
				MS	MSD								
			92525936002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Para	ameter	Uni	ts Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride		mg	/L 22.9	50	50	67.6	70.1	89	94	90-110	4	10	M1
Fluoride		mg	/L 0.14	2.5	2.5	2.4	2.6	91	97	90-110	6	10	
Sulfate		mg	/L 91.7	50	50	126	124	70	) 65	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.

## **REPORT OF LABORATORY ANALYSIS**

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#### QUALIFIERS

Project:	YATES
Pace Project No.:	92525936

#### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

**RPD** - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

#### ANALYTE QUALIFIERS

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: YATES Pace Project No.: 92525936

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525936001	YAMW-2				
92525936002	YAMW-4				
92525936003	YAMW-5				
92525936004	YAMW-1				
92525936005	PZ-35				
92525936007	PZ-37				
92525936001	YAMW-2	EPA 3010A	606033	EPA 6010D	606330
92525936002	YAMW-4	EPA 3010A	606033	EPA 6010D	606330
92525936003	YAMW-5	EPA 3010A	606033	EPA 6010D	606330
92525936004	YAMW-1	EPA 3010A	606033	EPA 6010D	606330
92525936005	PZ-35	EPA 3010A	606033	EPA 6010D	606330
92525936006	EB1	EPA 3010A	606033	EPA 6010D	606330
92525936007	PZ-37	EPA 3010A	606033	EPA 6010D	606330
92525936001	YAMW-2	EPA 3005A	606045	EPA 6020B	606338
92525936002	YAMW-4	EPA 3005A	606045	EPA 6020B	606338
92525936003	YAMW-5	EPA 3005A	606045	EPA 6020B	606338
92525936004	YAMW-1	EPA 3005A	606045	EPA 6020B	606338
92525936005	PZ-35	EPA 3005A	606045	EPA 6020B	606338
92525936006	EB1	EPA 3005A	606045	EPA 6020B	606338
92525936007	PZ-37	EPA 3005A	606045	EPA 6020B	606338
92525936001	YAMW-2	EPA 7470A	605942	EPA 7470A	606185
92525936002	YAMW-4	EPA 7470A	605942	EPA 7470A	606185
92525936003	YAMW-5	EPA 7470A	605942	EPA 7470A	606185
92525936004	YAMW-1	EPA 7470A	605942	EPA 7470A	606185
92525936005	PZ-35	EPA 7470A	605942	EPA 7470A	606185
92525936006	EB1	EPA 7470A	605942	EPA 7470A	606185
92525936007	PZ-37	EPA 7470A	605942	EPA 7470A	606185
92525936001	YAMW-2	SM 2450C-2011	604765		
92525936002	YAMW-4	SM 2450C-2011	604765		
92525936003	YAMW-5	SM 2450C-2011	604895		
92525936004	YAMW-1	SM 2450C-2011	604765		
92525936005	PZ-35	SM 2450C-2011	604895		
92525936006	EB1	SM 2450C-2011	604895		
92525936007	PZ-37	SM 2450C-2011	604895		
92525936001	YAMW-2	EPA 300.0 Rev 2.1 1993	606496		
92525936002	YAMW-4	EPA 300.0 Rev 2.1 1993	606496		
92525936003	YAMW-5	EPA 300.0 Rev 2.1 1993	606496		
92525936004	YAMW-1	EPA 300.0 Rev 2.1 1993	606496		
92525936005	PZ-35	EPA 300.0 Rev 2.1 1993	606496		
92525936006	EB1	EPA 300.0 Rev 2.1 1993	606496		
92525936007	PZ-37	EPA 300.0 Rev 2.1 1993	606496		

	Document Name:	Document Revised: October 28, 2020
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er Temp Corrected (°C): A Regulated Soil ( [] N/A, water sample) amples originate in a quarantine zone within t ]Yes ]No	ん・O he United States: CA, NY, or SC (check maj	has begun ps)? Did samples originate from a foreign source (internationally, including Hawali and Puerto Rico)? Yes No
Chain of Custody Brazers?	Pro and fragments	Comments/Discrepancy:
chain or custody Present?	INO UNA	2
Samples Arrived within Hold Time?		2.
Short Hold Time Analysis (<72 hr.)?		3.
Rush furn Around fime Requested?		4.
Sufficient Volume?	Elles No N/A	5.
Correct Containers Used? -Pace Containers Used?	Ares No N/A	6.
Containers Intact?	CHTES DNO DN/A	7.
Dissolved analysis: Samples Field Filtered?		8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix:	©Yes ⊡no ⊡n/a W	9.
Headspace in VOA Vials (>5-6mm)?		10.
Trip Blank Present?		11.
Trip Blank Custody Seals Present?	Liyes Lino Ethia	Field Data Required? Yes No
ENT NOTIFICATION/RESOLUTION		Lot ID of split containers:
erson contacted:	Date/Ti	ime:
Project Manager SCURF Review:		Date:

Document No F-CAR-CS-033-Rev.07         Freent Pleast: Unpreserved in the second samples.         Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLB Plastic Unpreserved (N/A)         Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLB Plastic Unpreserved (N/A)         Plastic Unpreserved (N/A)         Plastic Unpreserved (N/A)         Plastic Unpreserved (N/A)         Plastic Unpreserved (N/A)         Plastic Unpreserved (N/A)         Plastic Unpreserved (N/A)         Plastic Unpreserved (N/A)         Plastic Unpreserved (N/A)         Plastic Unpreserved (N/A)         Plastic Unpreserved (N/A)         Plastic Unpreserved (N/A)         Plastic Unpreserved (N/A)         Plastic Unpreserved (N/A)         Plastic Unpreserved (N/A)         Plastic Unpreserved (N/A)         Plastic Unpreserved (N/A)         Plastic Unpreserved (N/A)         Plastic Unpreserved (N/A)         Plastic Unpreserved (N/A)         Plastic Traped colspan="2">Plastic Traped colspan="2">Plastic Traped colspan="2">Plastic Traped colspan="2">Plastic Traped colspan="2" <t< th=""><th>Pace Carolinas Quality Office WO#: 92525936 PM: KLH1 Due Date: 03/19 CLIENT: GR-GR Power</th></t<>	Pace Carolinas Quality Office WO#: 92525936 PM: KLH1 Due Date: 03/19 CLIENT: GR-GR Power
*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preserved in the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the se	WO#: 92525936 PM: KLH1 Due Date: 03/19 CLIENT: GR-GA Power
Itemit       PP4U-125 mL Piastic Unpreserved (N/A) (CI-)       BP4U-125 mL Piastic Unpreserved (N/A)        BP2U-500 mL Plastic Unpreserved (N/A)       BP1U-1 liter Plastic Unpreserved (N/A)       BP1U-1 liter Plastic Unpreserved (N/A)       BP3W-250 mL Plastic Unpreserved (N/A)       BP45-125 mL Plastic Lunpreserved (N/A)       BP3W-250 mL plastic HN03 (pH < 2) (CI-)       BP42-125 mL Plastic ZN Acetate & NaOH (S9)       BP42-125 mL Plastic ZN Acetate & NaOH (S9)       BP42-125 mL Plastic ZN Acetate & NaOH (S9)       BP42-125 mL Plastic ZN Acetate & NaOH (S9)       BP42-125 mL Plastic ZN Acetate & NaOH (S9)       BP42-125 mL Plastic ZN Acetate & NaOH (S9)       BP42-125 mL Plastic ZN Acetate & NaOH (S9)       BP42-125 mL Plastic ZN Acetate & NaOH (S9)       BP42-125 mL Plastic ZN Acetate & NaOH (S9)       AG1U-1 liter Amber Unpreserved (N/A) (CI-)       AG1U-1 liter Amber HCI (PH < 2)       AG3U-250 mL Amber HCI (PH < 2)       AG3U-250 mL Amber HCI (PH < 2)       AG15-1 liter Amber HCI (PH < 2)       AG3U-250 mL Amber HCI (PH < 2)       AG3U-250 mL Amber HCI (PH < 2)       AG3U-250 mL VOA HCI (N/A) (CI-)       AG3U-40 mL VOA AND (N/A)       VG9U-40 mL VOA Unp (N/A)       VG9U-40 mL VOA Unp (N/A)	E E
	DG9P-40 mL VOA H3PO4 (N/A) VOAK (6 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 Sterile Plastic (N/A – lab) T / / / / / BP3A-250 mL Sterile Plastic (NH2)2SO4 (9.3-9.7) 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)
pH Adjustment Log for Preserved Samp	

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.

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		ADDITIONAL COMMENTS		661	2235	YAWW-1		YAMW-5	YAMW-4	YAMW-2	(A-Z, 0-8', - ) Sampia kis must berunique	SAMPLE ID			Due Date:		A 30114	Georgia Power	Client information:	HERE PACTLASSACEN
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April 01, 2021

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

RE: Project: YATES RADS Pace Project No.: 92525214

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between March 02, 2021 and March 05, 2021. 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,

Kardony

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR Lauren Coker, Georgia Pwer Geoffrey Gay, ARCADIS - Atlanta Kristen Jurinko Kelley Sharpe, ARCADIS - Atlanta Alex Simpson, Arcadis Samantha Thomas Maribel Vital





#### CERTIFICATIONS

Project: YATES RADS Pace Project No.: 92525214

#### 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 #: 9526 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 RADS Pace Project No.: 92525214

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92525214001	YGWA-5I	Water	03/02/21 14:05	03/02/21 17:30
92525214002	YGWA-5D	Water	03/02/21 14:40	03/02/21 17:30
92525214003	DUP-1	Water	03/02/21 00:00	03/02/21 17:30
92525214005	YGWA-14S	Water	03/02/21 11:20	03/02/21 17:30
92525214006	YGWA-30I	Water	03/01/21 16:25	03/02/21 17:30
92525214007	FB-01	Water	03/02/21 11:30	03/02/21 17:30
92525214008	DUP-01	Water	03/02/21 00:00	03/02/21 17:30
92525214009	FB-01	Water	03/02/21 15:20	03/02/21 17:30
92525214011	YGWA-40	Water	03/04/21 10:10	03/05/21 09:20
92525214012	YGWA-17S	Water	03/03/21 12:20	03/05/21 09:20
92525214013	YGWA-18S	Water	03/03/21 13:50	03/05/21 09:20
92525214014	YGWA-18I	Water	03/03/21 15:00	03/05/21 09:20
92525214015	YGWA-39	Water	03/04/21 10:20	03/05/21 09:20
92525214016	YGWA-1D (030321)	Water	03/03/21 14:25	03/05/21 09:20
92525214017	YGWA-1I (030321)	Water	03/03/21 13:35	03/05/21 09:20
92525214018	YGWA-2I (030321)	Water	03/03/21 11:45	03/05/21 09:20
92525214019	YGWA-3I (030321)	Water	03/03/21 17:00	03/05/21 09:20
92525214020	YGWA-3D (030321)	Water	03/03/21 16:00	03/05/21 09:20
92525214021	EB-02 (03032021)	Water	03/03/21 17:15	03/05/21 09:20
92525214022	YGWA-4I	Water	03/03/21 10:35	03/05/21 09:20
92525214023	YGWA-20S	Water	03/03/21 09:40	03/05/21 09:20
92525214024	YGWA-21I	Water	03/03/21 09:35	03/05/21 09:20



# SAMPLE ANALYTE COUNT

Project:YATES RADSPace Project No.:92525214

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525214001	YGWA-5I	 EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214002	YGWA-5D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214003	DUP-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214005	YGWA-14S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214006	YGWA-30I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214007	FB-01	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214008	DUP-01	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214009	FB-01	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214011	YGWA-40	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214012	YGWA-17S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214013	YGWA-18S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214014	YGWA-18I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214015	YGWA-39	EPA 9315	LAL	1	PASI-PA



### SAMPLE ANALYTE COUNT

Project:	YATES RADS
Pace Project No .:	92525214

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214016	YGWA-1D (030321)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214017	YGWA-1I (030321)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214018	YGWA-2I (030321)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214019	YGWA-3I (030321)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214020	YGWA-3D (030321)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214021	EB-02 (03032021)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214022	YGWA-4I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214023	YGWA-20S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214024	YGWA-21I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg



Project: YATES RADS

Pace Project No.: 92525214

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525214001	YGWA-5I					
EPA 9315	Radium-226	0.114 ± 0.190 (0.428)	pCi/L		03/22/21 08:37	
EPA 9320	Radium-228	C:68% 1:NA 0.465 ± 0.327 (0.633) C:78%	pCi/L		03/18/21 12:44	
Total Radium Calculation	Total Radium	0.579 ± 0.517 (1.06)	pCi/L		03/26/21 14:34	
92525214002	YGWA-5D					
EPA 9315	Radium-226	1.21 ± 0.344 (0.294) C:69% T:NA	pCi/L		03/22/21 08:37	
EPA 9320	Radium-228	0.457 ± 0.363 (0.727) C:76% T:95%	pCi/L		03/18/21 12:45	
Total Radium Calculation	Total Radium	1.67 ± 0.707 (1.02)	pCi/L		03/26/21 14:34	
92525214003	DUP-1					
EPA 9315	Radium-226	0.838 ± 0.268 (0.250) C:76% T:NA	pCi/L		03/22/21 08:37	
EPA 9320	Radium-228	0.784 ± 0.426 (0.783) C:78% T:87%	pCi/L		03/18/21 12:45	
Total Radium Calculation	Total Radium	1.62 ± 0.694 (1.03)	pCi/L		03/26/21 14:34	
92525214005	YGWA-14S					
EPA 9315	Radium-226	0.283 ± 0.267 (0.565) C:72% T:NA	pCi/L		03/22/21 08:41	
EPA 9320	Radium-228	0.427 ± 0.338 (0.673) C:76% T:92%	pCi/L		03/18/21 12:45	
Total Radium Calculation	Total Radium	0.710 ± 0.605 (1.24)	pCi/L		03/26/21 14:37	



Project: YATES RADS

Pace Project No.: 92525214

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525214006	YGWA-30I					
EPA 9315	Radium-226	0.0562 ± 0.172 (0.408)	pCi/L		03/22/21 08:41	
EPA 9320	Radium-228	C:79% I:NA 0.356 ± 0.278 (0.545) C:76% T:02%	pCi/L		03/18/21 12:46	
Total Radium Calculation	Total Radium	0.412 ± 0.450 (0.953)	pCi/L		03/26/21 14:37	
92525214007	FB-01					
EPA 9315	Radium-226	0.121 ± 0.131 (0.267) C:78% T:NA	pCi/L		03/22/21 08:41	
EPA 9320	Radium-228	0.512 ± 0.332 (0.620) C:73% T:88%	pCi/L		03/18/21 12:46	
Total Radium Calculation	Total Radium	0.633 ± 0.463 (0.887)	pCi/L		03/26/21 14:37	
92525214008	DUP-01					
EPA 9315	Radium-226	0.118 ± 0.120 (0.237) C·78% T·NA	pCi/L		03/22/21 08:48	
EPA 9320	Radium-228	0.809 ± 0.394 (0.692) C:79% T:90%	pCi/L		03/18/21 12:46	
Total Radium Calculation	Total Radium	0.927 ± 0.514 (0.929)	pCi/L		03/26/21 14:37	
92525214009	FB-01					
EPA 9315	Radium-226	-0.00506 ± 0.0722 (0.204) C:84% T:NA	pCi/L		03/22/21 08:48	
EPA 9320	Radium-228	0.675 ± 0.361 (0.652) C:76% T:96%	pCi/L		03/18/21 12:46	
Total Radium Calculation	Total Radium	0.675 ± 0.433 (0.856)	pCi/L		03/26/21 14:37	



Project: YATES RADS

Pace Project No.: 92525214

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525214011	YGWA-40					
EPA 9315	Radium-226	0.268 ± 0.187 (0.319)	pCi/L		03/15/21 09:11	
EPA 9320	Radium-228	C:74% I:NA 0.550 ± 0.416 (0.827) C:81%	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	0.818 ± 0.603 (1.15)	pCi/L		03/22/21 10:37	
92525214012	YGWA-17S					
EPA 9315	Radium-226	0.192 ± 0.156 (0.276) C·74% TNA	pCi/L		03/15/21 09:11	
EPA 9320	Radium-228	0.398 ± 0.319 (0.627) C:80% T:89%	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	0.590 ± 0.475 (0.903)	pCi/L		03/22/21 10:37	
92525214013	YGWA-18S					
EPA 9315	Radium-226	0.141 ± 0.166 (0.344) C <sup>.5</sup> 9% TNA	pCi/L		03/15/21 09:16	
EPA 9320	Radium-228	0.211 ± 0.322 (0.695) C:73% T89%	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	0.352 ± 0.488 (1.04)	pCi/L		03/22/21 10:37	
92525214014	YGWA-18I					
EPA 9315	Radium-226	0.381 ± 0.207 (0.351) C:65% TNA	pCi/L		03/15/21 09:16	
EPA 9320	Radium-228	0.184 ± 0.282 (0.608) C:76% T:92%	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	0.565 ± 0.489 (0.959)	pCi/L		03/22/21 10:37	



Project: YATES RADS

Pace Project No.: 92525214

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525214015	YGWA-39					
EPA 9315	Radium-226	0.636 ± 0.257 (0.332)	pCi/L		03/15/21 09:11	
EPA 9320	Radium-228	C:86% T:NA -0.00538 ± 0.293 (0.687) C:78%	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	0.636 ± 0.550 (1.02)	pCi/L		03/22/21 10:37	
92525214016	YGWA-1D (030321)					
EPA 9315	Radium-226	0.265 ± 0.193 (0.356) C:78% T:NA	pCi/L		03/15/21 09:13	
EPA 9320	Radium-228	0.227 ± 0.376 (0.819) C:76% T:90%	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	0.492 ± 0.569 (1.18)	pCi/L		03/22/21 10:37	
92525214017	YGWA-1I (030321)					
EPA 9315	Radium-226	0.0715 ± 0.137 (0.315) C:73% T:NA	pCi/L		03/15/21 09:13	
EPA 9320	Radium-228	0.0339 ± 0.361 (0.831) C:76% T:84%	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	0.105 ± 0.498 (1.15)	pCi/L		03/26/21 13:42	
92525214018	YGWA-2I (030321)					
EPA 9315	Radium-226	0.236 ± 0.183 (0.351)	pCi/L		03/15/21 09:13	
EPA 9320	Radium-228	0.223 ± 0.344 (0.744) C:72% T:93%	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	0.459 ± 0.527 (1.10)	pCi/L		03/26/21 13:42	



Project: YATES RADS

Pace Project No.: 92525214

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525214019	YGWA-3I (030321)					
EPA 9315	Radium-226	1.19 ± 0.315 (0.200)	pCi/L		03/22/21 09:34	
EPA 9320	Radium-228	C:81% ENA 0.837 ± 0.390 (0.655) C:82% T-90%	pCi/L		03/19/21 15:13	
Total Radium Calculation	Total Radium	2.03 ± 0.705 (0.855)	pCi/L		03/26/21 13:42	
92525214020	YGWA-3D (030321)					
EPA 9315	Radium-226	1.88 ± 0.434 (0.259) C`80% T`NA	pCi/L		03/22/21 08:28	
EPA 9320	Radium-228	1.70 ± 0.544 (0.701) C:74% T:90%	pCi/L		03/19/21 15:13	
Total Radium Calculation	Total Radium	3.58 ± 0.978 (0.960)	pCi/L		03/26/21 13:42	
92525214021	EB-02 (03032021)					
EPA 9315	Radium-226	0.0547 ± 0.0827 (0.178) C·78% T·NA	pCi/L		03/22/21 08:29	
EPA 9320	Radium-228	0.157 ± 0.333 (0.736) C:76% T:95%	pCi/L		03/19/21 15:13	
Total Radium Calculation	Total Radium	0.212 ± 0.416 (0.914)	pCi/L		03/26/21 13:42	
92525214022	YGWA-4I					
EPA 9315	Radium-226	0.783 ± 0.243 (0.164) C:76% T:NA	pCi/L		03/22/21 08:30	
EPA 9320	Radium-228	0.217 ± 0.319 (0.687) C:79% T:90%	pCi/L		03/19/21 15:13	
Total Radium Calculation	Total Radium	1.000 ± 0.562 (0.851)	pCi/L		03/26/21 13:42	



Project: YATES RADS

Pace Project No.: 92525214

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525214023	YGWA-20S					
EPA 9315	Radium-226	0.133 ± 0.114 (0.212) C:89% T:NA	pCi/L		03/22/21 08:30	
EPA 9320	Radium-228	-0.163 ± 0.291 (0.711) C:79% T:96%	pCi/L		03/19/21 15:13	
Total Radium Calculation	Total Radium	0.133 ± 0.405 (0.923)	pCi/L		03/26/21 13:42	
92525214024	YGWA-21I					
EPA 9315	Radium-226	0.861 ± 0.270 (0.318) C:89% T:NA	pCi/L		03/22/21 08:31	
EPA 9320	Radium-228	0.338 ± 0.394 (0.829) C:72% T:86%	pCi/L		03/19/21 15:15	
Total Radium Calculation	Total Radium	1.20 ± 0.664 (1.15)	pCi/L		03/26/21 13:56	



Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-5I PWS:	Lab ID: 925252 Site ID:	214001 Collected: 03/02/21 14:05 Sample Type:	Received:	03/02/21 17:30 N	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	ervices - Greensburg				
Radium-226	EPA 9315	0.114 ± 0.190 (0.428) C:68% T:NA	pCi/L	03/22/21 08:37	13982-63-3	
	Pace Analytical Se	ervices - Greensburg				
Radium-228	EPA 9320	0.465 ± 0.327 (0.633) C:78% T:92%	pCi/L	03/18/21 12:44	15262-20-1	
	Pace Analytical Se	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.579 ± 0.517 (1.06)	pCi/L	03/26/21 14:34	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-5D PWS:	Lab ID: 9252 Site ID:	5214002 Collected: 03/02/21 14:40 Sample Type:	Received:	03/02/21 17:30 N	Aatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	1.21 ± 0.344 (0.294) C:69% T:NA	pCi/L	03/22/21 08:37	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.457 ± 0.363 (0.727) C:76% T:95%	pCi/L	03/18/21 12:45	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	1.67 ± 0.707 (1.02)	pCi/L	03/26/21 14:34	7440-14-4	



**Total Radium** 

Qual

#### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS Pace Project No .: 92525214 Sample: DUP-1 Lab ID: 92525214003 Collected: 03/02/21 00:00 Received: 03/02/21 17:30 Matrix: Water PWS: Site ID: Sample Type: Act ± Unc (MDC) Carr Trac Parameters Method Units Analyzed CAS No. Pace Analytical Services - Greensburg 0.838 ± 0.268 (0.250) EPA 9315 Radium-226 pCi/L 03/22/21 08:37 13982-63-3 C:76% T:NA Pace Analytical Services - Greensburg EPA 9320 0.784 ± 0.426 (0.783) Radium-228 pCi/L 03/18/21 12:45 15262-20-1 C:78% T:87% Pace Analytical Services - Greensburg

1.62 ± 0.694 (1.03)

pCi/L

03/26/21 14:34 7440-14-4

Total Radium

Calculation



Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-14S PWS:	Lab ID: 9252 Site ID:	5214005 Collected: 03/02/21 11:20 Sample Type:	Received:	03/02/21 17:30 M	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.283 ± 0.267 (0.565) C:72% T:NA	pCi/L	03/22/21 08:41	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.427 ± 0.338 (0.673) C:76% T:92%	pCi/L	03/18/21 12:45	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.710 ± 0.605 (1.24)	pCi/L	03/26/21 14:37	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-30I	Lab ID: 9252521	4006 Collected: 03/01/21 16:25	Received:	03/02/21 17:30 N	latrix: Water	
PWS:	Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.0562 ± 0.172 (0.408) C:79% T:NA	pCi/L	03/22/21 08:41	13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	0.356 ± 0.278 (0.545) C:76% T:92%	pCi/L	03/18/21 12:46	15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	0.412 ± 0.450 (0.953)	pCi/L	03/26/21 14:37	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525214

Sample: FB-01	Lab ID: 925252	14007 Collected: 03/02/21 11:30	Received:	03/02/21 17:30	Matrix: Water	
PWS:	Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	ervices - Greensburg				
Radium-226	EPA 9315	0.121 ± 0.131 (0.267) C:78% T:NA	pCi/L	03/22/21 08:41	13982-63-3	
	Pace Analytical Se	ervices - Greensburg				
Radium-228	EPA 9320	0.512 ± 0.332 (0.620) C:73% T:88%	pCi/L	03/18/21 12:46	15262-20-1	
	Pace Analytical Se	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.633 ± 0.463 (0.887)	pCi/L	03/26/21 14:37	7440-14-4	



Qual

#### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS Pace Project No.: 92525214 Sample: DUP-01 Lab ID: 92525214008 Collected: 03/02/21 00:00 Received: 03/02/21 17:30 Matrix: Water PWS: Site ID: Sample Type: Act ± Unc (MDC) Carr Trac Parameters Method Units Analyzed CAS No. Pace Analytical Services - Greensburg EPA 9315 0.118 ± 0.120 (0.237) Radium-226 pCi/L 03/22/21 08:48 13982-63-3 C:78% T:NA Pace Analytical Services - Greensburg EPA 9320 0.809 ± 0.394 (0.692) Radium-228 pCi/L 03/18/21 12:46 15262-20-1 C:79% T:90% Pace Analytical Services - Greensburg **Total Radium** Total Radium 0.927 ± 0.514 (0.929) pCi/L 03/26/21 14:37 7440-14-4 Calculation



Project: YATES RADS

Pace Project No.:	92525214
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Sample: FB-01	Lab ID: 9252521	4009 Collected: 03/02/21 15:20	Received:	03/02/21 17:30	latrix: Water	
PWS:	Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	-0.00506 ± 0.0722 (0.204) C:84% T:NA	pCi/L	03/22/21 08:48	13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	0.675 ± 0.361 (0.652) C:76% T:96%	pCi/L	03/18/21 12:46	15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	0.675 ± 0.433 (0.856)	pCi/L	03/26/21 14:37	7440-14-4	


Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-40 PWS:	Lab ID: 925252 Site ID:	214011 Collected: 03/04/21 10:10 Sample Type:	Received:	03/05/21 09:20 M	fatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	ervices - Greensburg				
Radium-226	EPA 9315	0.268 ± 0.187 (0.319) C:74% T:NA	pCi/L	03/15/21 09:11	13982-63-3	
	Pace Analytical Se	ervices - Greensburg				
Radium-228	EPA 9320	0.550 ± 0.416 (0.827) C:81% T:90%	pCi/L	03/15/21 16:10	15262-20-1	
	Pace Analytical Se	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.818 ± 0.603 (1.15)	pCi/L	03/22/21 10:37	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-17S PWS:	Lab ID: 92525 Site ID:	<b>214012</b> Collected: 03/03/21 12:20 Sample Type:	Received:	03/05/21 09:20 N	Aatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	ervices - Greensburg				
Radium-226	EPA 9315	0.192 ± 0.156 (0.276) C:74% T:NA	pCi/L	03/15/21 09:11	13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.398 ± 0.319 (0.627) C:80% T:89%	pCi/L	03/15/21 16:10	15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.590 ± 0.475 (0.903)	pCi/L	03/22/21 10:37	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-18S PWS:	Lab ID: 92525 Site ID:	214013 Collected: 03/03/21 13:50 Sample Type:	Received:	03/05/21 09:20 M	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg			-	
Radium-226	EPA 9315	0.141 ± 0.166 (0.344) C:59% T:NA	pCi/L	03/15/21 09:16	13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.211 ± 0.322 (0.695) C:73% T:89%	pCi/L	03/15/21 16:10	15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.352 ± 0.488 (1.04)	pCi/L	03/22/21 10:37	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-18I PWS:	Lab ID: 92525 Site ID:	214014 Collected: 03/03/21 15:00 Sample Type:	Received:	03/05/21 09:20 N	fatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg			-	
Radium-226	EPA 9315	0.381 ± 0.207 (0.351) C:65% T:NA	pCi/L	03/15/21 09:16	13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.184 ± 0.282 (0.608) C:76% T:92%	pCi/L	03/15/21 16:10	15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.565 ± 0.489 (0.959)	pCi/L	03/22/21 10:37	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-39	Lab ID: 9252	5214015 Collected: 03/04/21 10:20	Received:	03/05/21 09:20 N	Aatrix: Water	
F VV 3.	Sile ID.	Sample Type.				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.636 ± 0.257 (0.332) C:86% T:NA	pCi/L	03/15/21 09:11	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	-0.00538 ± 0.293 (0.687) C:78% T:93%	pCi/L	03/15/21 16:10	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.636 ± 0.550 (1.02)	pCi/L	03/22/21 10:37	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-1D (030321) PWS:	Lab ID: 92525 Site ID:	214016 Collected: 03/03/21 14:25 Sample Type:	Received:	03/05/21 09:20 M	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg				
Radium-226	EPA 9315	0.265 ± 0.193 (0.356) C:78% T:NA	pCi/L	03/15/21 09:13	13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.227 ± 0.376 (0.819) C:76% T:90%	pCi/L	03/15/21 16:10	15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.492 ± 0.569 (1.18)	pCi/L	03/22/21 10:37	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525214

<b>Sample: YGWA-1I (030321)</b> PWS:	Lab ID: 92525 Site ID:	214017 Collected: 03/03/21 13:35 Sample Type:	Received:	03/05/21 09:20 N	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg			-	
Radium-226	EPA 9315	0.0715 ± 0.137 (0.315) C:73% T:NA	pCi/L	03/15/21 09:13	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.0339 ± 0.361 (0.831) C:76% T:84%	pCi/L	03/15/21 16:10	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.105 ± 0.498 (1.15)	pCi/L	03/26/21 13:42	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525214

<b>Sample: YGWA-2I (030321)</b> PWS:	Lab ID: 92525 Site ID:	<b>214018</b> Collected: 03/03/21 11:45 Sample Type:	Received:	03/05/21 09:20 M	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg				
Radium-226	EPA 9315	0.236 ± 0.183 (0.351) C:83% T:NA	pCi/L	03/15/21 09:13	13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.223 ± 0.344 (0.744) C:72% T:93%	pCi/L	03/15/21 16:10	15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.459 ± 0.527 (1.10)	pCi/L	03/26/21 13:42	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525214

<b>Sample: YGWA-3I (030321)</b> PWS:	Lab ID: 9252 Site ID:	5214019 Collected: 03/03/21 17:00 Sample Type:	Received:	03/05/21 09:20 N	Aatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	1.19 ± 0.315 (0.200) C:81% T:NA	pCi/L	03/22/21 09:34	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.837 ± 0.390 (0.655) C:82% T:90%	pCi/L	03/19/21 15:13	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	2.03 ± 0.705 (0.855)	pCi/L	03/26/21 13:42	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525214

<b>Sample: YGWA-3D (030321)</b> PWS:	Lab ID: 92525 Site ID:	5214020 Collected: 03/03/21 16:00 Sample Type:	Received:	03/05/21 09:20 N	Aatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	1.88 ± 0.434 (0.259) C:80% T:NA	pCi/L	03/22/21 08:28	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	1.70 ± 0.544 (0.701) C:74% T:90%	pCi/L	03/19/21 15:13	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	3.58 ± 0.978 (0.960)	pCi/L	03/26/21 13:42	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525214

Sample: EB-02 (03032021)	Lab ID: 925252	14021 Collected: 03/03/21 17:15	Received:	03/05/21 09:20 N	Aatrix: Water	
PWS:	Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	ervices - Greensburg				
Radium-226	EPA 9315	0.0547 ± 0.0827 (0.178) C:78% T:NA	pCi/L	03/22/21 08:29	13982-63-3	
	Pace Analytical Se	ervices - Greensburg				
Radium-228	EPA 9320	0.157 ± 0.333 (0.736) C:76% T:95%	pCi/L	03/19/21 15:13	15262-20-1	
	Pace Analytical Se	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.212 ± 0.416 (0.914)	pCi/L	03/26/21 13:42	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-4I PWS:	Lab ID: 92525 Site ID:	214022 Collected: 03/03/21 10:35 Sample Type:	Received:	03/05/21 09:20 N	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg				
Radium-226	EPA 9315	0.783 ± 0.243 (0.164) C:76% T:NA	pCi/L	03/22/21 08:30	13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.217 ± 0.319 (0.687) C:79% T:90%	pCi/L	03/19/21 15:13	15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	1.000 ± 0.562 (0.851)	pCi/L	03/26/21 13:42	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-20S PWS:	Lab ID: 92525 Site ID:	<b>214023</b> Collected: 03/03/21 09:40 Sample Type:	Received:	03/05/21 09:20 N	Aatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Gervices - Greensburg				
Radium-226	EPA 9315	0.133 ± 0.114 (0.212) C:89% T:NA	pCi/L	03/22/21 08:30	13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	-0.163 ± 0.291 (0.711) C:79% T:96%	pCi/L	03/19/21 15:13	15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.133 ± 0.405 (0.923)	pCi/L	03/26/21 13:42	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-211 PWS:	Lab ID: 9252521 Site ID:	4024 Collected: 03/03/21 09:35 Sample Type:	Received:	03/05/21 09:20 N	Aatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	rvices - Greensburg				
Radium-226	EPA 9315	0.861 ± 0.270 (0.318) C:89% T:NA	pCi/L	03/22/21 08:31	13982-63-3	
	Pace Analytical Ser	rvices - Greensburg				
Radium-228	EPA 9320	0.338 ± 0.394 (0.829) C:72% T:86%	pCi/L	03/19/21 15:15	15262-20-1	
	Pace Analytical Ser	rvices - Greensburg				
Total Radium	Total Radium Calculation	1.20 ± 0.664 (1.15)	pCi/L	03/26/21 13:56	7440-14-4	



Project:	YATES	RADS					
Pace Project No.:	925252	14					
QC Batch:	43764	3	Analysis Method:	EPA 9320			
QC Batch Method:	EPA 9	320	Analysis Description	: 9320 Radium 22	8		
Associated Lab Sam	nples:	92525214001, 925252 92525214009	Laboratory: 214002, 92525214003, 9252521	Pace Analytical \$ 4005, 92525214006, 9	Services - Greensbu 2525214007, 92525	ırg 5214008,	
METHOD BLANK:	211254	0	Matrix: Water				
Associated Lab Sam	nples:	92525214001, 925252 92525214009	214002, 92525214003, 9252521	4005, 92525214006, 9	2525214007, 92525	5214008,	
Param	neter	F	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-228		0.387 ± 0.3	16 (0.633) C:83% T:90%	pCi/L	03/18/21 12:44		

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 RADS				
Pace Project No.:	92525214				
QC Batch:	437642	Analysis Method:	EPA 9320		
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 2	28	
		Laboratory:	Pace Analytical	Services - Greensbu	rg
Associated Lab Sar	mples: 925252	14019, 92525214020, 92525214021, 925252140	22, 92525214023,	92525214024	
METHOD BLANK:	2112539	Matrix: Water			
Associated Lab Sai	mples: 925252 <sup>-</sup>	14019, 92525214020, 92525214021, 925252140	22, 92525214023,	92525214024	
Para	neter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228		0.219 ± 0.271 (0.570) C:75% T:92%	pCi/L	03/19/21 15:12	

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 RADS					
Pace Project No.:	92525214					
QC Batch:	437601	Analysis Method:	EPA 9315			
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radi	um		
		Laboratory:	Pace Analytical	Services - Greensbu	g	
Associated Lab Sam	nples: 92525214	4019, 92525214020, 92525214021, 925252140	022, 92525214023, 9	92525214024		
METHOD BLANK:	2112394	Matrix: Water				
Associated Lab Sam	nples: 92525214	4019, 92525214020, 92525214021, 925252140	022, 92525214023, 9	92525214024		
Param	neter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-226		0.0425 ± 0.110 (0.264) C:81% T:NA	pCi/L	03/22/21 08:26		

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	RADS						
Pace Project No.:	925252	14						
QC Batch:	43759	9		Analysis Method:	EPA 9315			
QC Batch Method:	EPA 9	315		Analysis Description:	9315 Total Rad	ium		
Associated Lab Sam	nples:	92525214011, 9252 92525214018	5214012,	Laboratory: 92525214013, 92525214	Pace Analytical 014, 92525214015,	Services - Greensbu 92525214016, 92525	ırg 5214017,	
METHOD BLANK:	211238	9		Matrix: Water				
Associated Lab Sam	nples:	92525214011, 9252 92525214018	5214012,	92525214013, 92525214	014, 92525214015,	92525214016, 92525	5214017,	
Param	neter		Act ± Uno	c (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-226		-0.00470	± 0.0712	(0.214) C:85% T:NA	pCi/L	03/15/21 09:18		

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	RADS					
Pace Project No.:	925252	14					
QC Batch:	43764	1	Analysis Method:	EPA 9320			
QC Batch Method:	EPA 9	320	Analysis Description:	9320 Radium 22	28		
Associated Lab Sam	nples:	92525214011, 92525214 92525214018	Laboratory: 012, 92525214013, 925252140	Pace Analytical 14, 92525214015, 9	Services - Greensbu 92525214016, 92525	irg 214017,	
METHOD BLANK:	211253	8	Matrix: Water				
Associated Lab Sam	nples:	92525214011, 92525214 92525214018	012, 92525214013, 925252140	14, 92525214015, 9	92525214016, 92525	214017,	
Param	neter	Act	± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-228		0.312 ± 0.330	(0.686) C:82% T:90%	pCi/L	03/15/21 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.



Project:	YATES	RADS					
Pace Project No.:	925252	14					
QC Batch:	43760	2	Analysis Method:	EPA 9315			
QC Batch Method:	EPA 9	315	Analysis Description:	9315 Total Radiu	Im		
Associated Lab Sam	nples:	92525214001, 925252 <sup>-</sup> 92525214009	Laboratory: 4002, 92525214003, 92525214	Pace Analytical \$ 005, 92525214006, 9	Services - Greensbu 2525214007, 92525	rg 214008,	
METHOD BLANK:	211239	5	Matrix: Water				
Associated Lab Sam	nples:	92525214001, 925252 <sup>-</sup> 92525214009	4002, 92525214003, 92525214	005, 92525214006, 9	2525214007, 92525	214008,	
Param	neter	Ac	t ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-226		0.0514 ± 0.1	04 (0.242) C:82% T:NA	pCi/L	03/22/21 08:37		

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 RADS Pace Project No.: 92525214

### 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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.



# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	YATES RADS
Pace Project No .:	92525214

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525214001	YGWA-5I	EPA 9315	437602		
92525214002	YGWA-5D	EPA 9315	437602		
92525214003	DUP-1	EPA 9315	437602		
92525214005	YGWA-14S	EPA 9315	437602		
92525214006	YGWA-30I	EPA 9315	437602		
92525214007	FB-01	EPA 9315	437602		
92525214008	DUP-01	EPA 9315	437602		
92525214009	FB-01	EPA 9315	437602		
92525214011	YGWA-40	EPA 9315	437599		
92525214012	YGWA-17S	EPA 9315	437599		
92525214013	YGWA-18S	EPA 9315	437599		
92525214014	YGWA-18I	EPA 9315	437599		
92525214015	YGWA-39	EPA 9315	437599		
92525214016	YGWA-1D (030321)	EPA 9315	437599		
92525214017	YGWA-11 (030321)	EPA 9315	437599		
92525214018	YGWA-2I (030321)	EPA 9315	437599		
92525214019	YGWA-3I (030321)	EPA 9315	437601		
92525214020	YGWA-3D (030321)	EPA 9315	437601		
92525214021	EB-02 (03032021)	EPA 9315	437601		
92525214022	YGWA-4I	EPA 9315	437601		
92525214023	YGWA-20S	EPA 9315	437601		
92525214024	YGWA-21I	EPA 9315	437601		
92525214001	YGWA-5I	EPA 9320	437643		
92525214002	YGWA-5D	EPA 9320	437643		
92525214003	DUP-1	EPA 9320	437643		
92525214005	YGWA-14S	EPA 9320	437643		
92525214006	YGWA-30I	EPA 9320	437643		
92525214007	FB-01	EPA 9320	437643		
92525214008	DUP-01	EPA 9320	437643		
92525214009	FB-01	EPA 9320	437643		
92525214011	YGWA-40	EPA 9320	437641		
92525214012	YGWA-17S	EPA 9320	437641		
92525214013	YGWA-18S	EPA 9320	437641		
92525214014	YGWA-18I	EPA 9320	437641		
92525214015	YGWA-39	EPA 9320	437641		
92525214016	YGWA-1D (030321)	EPA 9320	437641		
92525214017	YGWA-1I (030321)	EPA 9320	437641		
92525214018	YGWA-2I (030321)	EPA 9320	437641		
92525214019	YGWA-3I (030321)	EPA 9320	437642		
92525214020	YGWA-3D (030321)	EPA 9320	437642		
92525214021	EB-02 (03032021)	EPA 9320	437642		
92525214022	YGWA-4I	EPA 9320	437642		
92525214023	YGWA-20S	EPA 9320	437642		
92525214024	YGWA-21I	EPA 9320	437642		
92525214001	YGWA-5I	Total Radium Calculation	440666		
92525214002	YGWA-5D	Total Radium Calculation	440666		



# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES RADS Pace Project No.: 92525214

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525214003	DUP-1	Total Radium Calculation	440666		
92525214005	YGWA-14S	Total Radium Calculation	440668		
92525214006	YGWA-30I	Total Radium Calculation	440668		
92525214007	FB-01	Total Radium Calculation	440668		
92525214008	DUP-01	Total Radium Calculation	440668		
92525214009	FB-01	Total Radium Calculation	440668		
92525214011	YGWA-40	Total Radium Calculation	439752		
92525214012	YGWA-17S	Total Radium Calculation	439752		
92525214013	YGWA-18S	Total Radium Calculation	439752		
92525214014	YGWA-18I	Total Radium Calculation	439752		
92525214015	YGWA-39	Total Radium Calculation	439752		
92525214016	YGWA-1D (030321)	Total Radium Calculation	439752		
92525214017	YGWA-1I (030321)	Total Radium Calculation	440644		
92525214018	YGWA-2I (030321)	Total Radium Calculation	440644		
92525214019	YGWA-3I (030321)	Total Radium Calculation	440644		
92525214020	YGWA-3D (030321)	Total Radium Calculation	440644		
92525214021	EB-02 (03032021)	Total Radium Calculation	440644		
92525214022	YGWA-4I	Total Radium Calculation	440644		
92525214023	YGWA-20S	Total Radium Calculation	440644		
92525214024	YGWA-21I	Total Radium Calculation	440647		

10.	Documen Sample Condition II	t Name:	Document Revised: October 28, 2020		
Pace Analytical	Docume	ent No.:	Issuing Authority:		
hanna a sa sa la da sa sa sa sa sa sa sa sa sa sa sa sa sa	F-CAR-CS-0	33-Rev.07	Pace Carolinas Quality Office		
Asheville Eden Greenwood	Huntersville	Raleigh	] Mechanicsville Atlanta Kernersville		
Sample Condition Client Name:	nover	Proje	WO#: 92525214		
Durier: DFed Ex D Commercial Pace	UPS USPS Other:				
tody Seal Present? Yes	Seals Intact? . 🗌 Yes		Date/Initials Person Examining Contents: バイア 3/ 3/ こ		
king Material: Bubble Wrap	Bubble Bags No		Biological Tissue Frozen?		
IR Gun ID. 230	Type of Ice:				
ler Temp: <u> </u>	Factor: + 0		Temp should be above freezing to 5°C		
lastan constant (re)	1.0	_	Samples out of temp criteria. Samples on ice, cooling process		
DA Regulated Soil ( N/A, water sample)	11		has begun		
samples originate in a quarantine zone within the Yes No	e United States: CA, NY, or	r SC (check maps)?	Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes		
Chain of Custody Present?	1-		comments/ biscrepancy:		
		N/A   1.			
Short Hold Time Application (272 by 12		<u>□N/A</u> 2.	a the second second second second second second second second second second second second second second second		
Bush Turn Around Time Requested?		□ □N/A 3.			
Kosh forn Al ound time Requested?	LIYes LINO	UN/A 4.			
Sufficient Volume?	Bres DNo	□N/A 5.			
-Pace Containers Used?		D □N/A 6.			
Containers Intact?					
Dissolved analysis: Samples Field Filtered?					
Sample Labels Match COC?		D []N/A 9.			
-Includes Date/Time/ID/Analysis Matrix:	V* 1				
Headspace in VOA Vials (>5-6mm)?	TYes No	5 1N/A 10			
Trip Blank Present?	Yes No				
Trip Blank Custody Seals Present?	Yes No	- Dyn			
OMMENTS/SAMPLE DISCREPANCY			Field Data Required? Yes No		
ENT NOTIFICATION/RESOLUTION			Lot ID of split containers:		
erson contacted:		Date/Time:			
Project Manager SCURF Review:			Date:		

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J		- ADDITIONIAL COMMENTS	TGWC-235	XIIWACHT	fewerzes	YGWAJB	YGWA-17S	XCHARDA	Kompan	XCWAR				SAMPLE ID One Character periboz. (A-Z, 0-9 (, -) Sample Ids must be unique			led Due Date:	1770)384-6526 Fax:	1, GA 30114	st: 1070 Bridge Mill Ave	an A Ind Cilent Information:	A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STATISTICS AND A STAT
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PACE Analytical Services Ra-228 Analysis

Face Analytical

# **Quality Control Sample Performance Assessment**

			Analyst Must Manually Enter All Fields Highlighted in	Yellow.	
lest	Ka-226	_			
Analyst Date:	LAL 3/9/2021		Sample Matrix Spike Control Assessment Sample Collection Date:	MS/MSD 1	MS/MSD 2
Worklist	59152 DW		Sample I.D. Sample N.D.		
Method Blank Assessment			Sample MSU 1.U. Spike I.D.:		
MB Sample ID	2112389		MS/MSD Decay Corrected Spike Concentration (pCi/mL):	•	
M/B Counting Uncertainty:	c00.0-		Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL):		
MB Numerical Performance Indicator	0.214		MS Aliquot (L. g. F):		
MB Status vs Numerican indicator. MB Status vs Numerical indicator. MB Status vs. MDC:	N/A Pass		MS 14194C UNIC (POUL, 9, F). MSD Tanget Conc. (PCML, 9, F): MSD Tanget Conc. (PCML, 9, F):		
			MS Spike Uncertainty (calculated):		
Laboratory Control Sample Assessment	LCSD (Y or N)?	Å	MSD Spike Uncertainty (calculated):		
	LCS59152	LCSD59152	Sample Result:		
Count Date: Splke (.D.:)	3/15/2021 19-033	3/15/2021 19-033	Sample Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Soike Result:		
Decay Corrected Spike Concentration (pCi/mL):	24.039	24.039	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Volume Used (mL):	0.10	0.10	Sample Matrix Spike Duplicate Result:		
Aliquot Volume (L, g, F):	0.504	0.504	Matrix Spike Duplicate Result Counting Uncertainty (pCi/t, g, F):		
Incertainty (Calculated)	0.057	4.707	MSD Numerical Deformance Indicator		
Result (pCN, q. F):	5.339	5.520	MOU NUMERICAL FERNINGING RECOVERY:		
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.625	0.640	MSD Percent Recovery:		
Numerical Performance Indicator:	1.77	2.29	MS Status vs Numerical Indicator:		
Percent Recovery:	111.88%	115.78%	MSD Status vs Numerical Indicator		
Status vs Numerical Indicator.	N/A	AN C	MS Status vs Recovery:		
Linner of Decovery Limiter	SSB1	4 7 EV	MS/NS/ 1 MS/NS/ 1 MS/NS/ 1 MS/NS/		
Lower & Recovery Limits:	75%	75%	MS/MSD Lower % Recovery Limits:		
Duplicate Sample Assessment			Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample 1.D.:	LCS59152	Enter Duplicate	Sample I.D.		
Duplicate Sample I.D.	LCSD59152	sample IDs if	Sample MS I.D.		
Sample Result (pCi/l, g, F):	5.339	other than	Sample MSD I.D.		
Sample Result Counting Uncertainty (pCi/L, g, F):	0.625	LCS/LCSD in	Sample Matrix Spike Result:		
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	9.52U 0.640	The space below.	marrx spike result Counting Uncertainty (pC/rL, g, F); Sample Matrix Spike Duplicate Result:		
Are sample and/or duplicate results below RL?	20		Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator.	-0.396	92524756004	Duplicate Numerical Performance Indicator:		
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.43%	92524756004DUP	(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 KPD.	rass 25%		MS/ MSU JUDIICARE STATUS VS KFUT. % RPD Limit:		

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

Comments:

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TAR\_59152\_W.xts Total Alpha Radium (R104-3 11Feb2019).xts CME INTRI PACE Analytical Services Ra-228 Analysis

Cuality Control Samp	vie Performance Assessment	
Pace Analytical Test Ra-226	Analyst Must Manually Enter All Freids Highlighted in Yellow.	
Analyst LAL Date: 3/9/2021	Sample Matrix Spike Control Assessment MS/MSD 1 MS/MSD 1 MS/MS	MISD 2
Worklist 59152 Matrix: DW	Sample I.D. Sample MS I.D.	
Method Blank Assessment	Sample MSD I.D. Spike I.D.:	
MB Sample ID 2112389	MS/MSD Decay Corrected Spike Concentration (pC/mL):	
MB concentration: -0.005 MB concentration: 0.071	Spike Volume Used in MS (mL); Spike Volume Used in MSD (mL);	
MB MDC: 0.214	MS Aliquot (L, g, F).	
MB Numerical Performance Indicator0.13 MB Status vs Numerical Indicator. N/A	MS Target Conc. (pCi/l, g, F): MSD Aliauot (L, g, F):	
MB Status vs. MDC: Pass	MSD Target Conc. (pC/I/, g, F): MS coive Threat-airth/ real-rutated/	
	N NOU OPIKE UNCERTAINTY (CARCHARTU).	
	Sample Result Counting Encertainty (nCE) or EV	
Spike I.D.: 19-033	Sample Matrix Spike Result	
Decay Corrected Spike Concentration (pCi/mL): 24.039	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Volume Used (mL): 0.10	Sample Matrix Spike Duplicate Result:	
Aliquot Volume (L, g, F): 0.504	Matrix Spike Duplicate Result Counting Uncertainty (pCi/t, g, F):	
13-20-2010 (BULL, 9, F): 4.7 /2	MCD Numerical Fational Cartemarka	
Uncertainty (Larculated): 0.002 Result (nCXI) or FV 5.339	WOU NUTIFICAT FORMATION INVESTIGATION	
LCS/LCSD Counting Uncertainty (pCi/L, g, F): 0.625	MSD Percent Recovery	
Numerical Performance Indicator. 1.77	MS Status vs Numerical Indicator:	
Percent Recovery: 111.88%	MSD Status vs Numerical Indicator:	
Status vs Numerical Indicator: N/A	MSS Status vs Recovery:	
Linux & Docurrent invite: 1358	MOU Status vs recovery.	
Lower % Recovery Limits: 75%	MS/MSD Lower % Recovery Limits:	
Duplicate Sample Assessment	Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.: 92524756004 Enter	Duplicate Sample I.D.	
Duplicate Sample 1.D.   92524756004DUP  sam	ple IDs if Sample MS I.D.	
Sample Result (pCVL, g, F): 0.330 00 00 00 00 00 00 00 00 00 00 00 00	er than Sample MSD i.D. A CSD is	
Sample Dublicate Result (DCVL, 0, F): 0.280 Ithe sp	ace below. Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.189	Sample Matrix Spike Duplicate Result:	
Are sample and/or duplicate results below RL? See Below ##	Mathrx Spike Duplicate Result Counting Uncertainty (pCi/l., g, F):	
Duplicate Numerical Performance Indicator: 0.394 925	[4756004.] Duplicate Numerical Performance Indicator:	
	DOUGHUR Desseu dri me refuerii recoveries) inci mou pupituate nr D.	
Duplicate Status VS Numerical Indicator. NVA Dunlicate Status vs RPD- Pass	MS/ MS/ Dublicate Status vs RPD: MS/ MS/ Dublicate Status vs RPD:	
% RPD Limit: 25%	% RPD Limit:	

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1 of 1

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

Comments:

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PACE Analytical Services Ra-228 Analysis

Pace Analytical		<u>Analyst Must Manually Enter All Fields Highlighted in Y</u>	<u>iliow.</u>
lest Analyst Date:	Ka-226 LAL 3/10/2021	Sample Matrix Spike Control Assessment Sample Collection Date:	MS/MSD 1 MS/MSD 2
Worklist Matrix:	59153 DW	Sample I.D. Sample MS I.D. Sample MSD I.D.	
ethod Blank Assessment MB Sample ID	2112394	Spike I.D.: MS/MSD Decay Corrected Spike Concentration (pClimit):	
MB concentration: M/B Counting Uncertainty:	0.043	Spike Volume Used in MSD (mL): Spike Volume Used in MSD (mL): MSC Alimined of D	
MB Numerical Performance Indicator:	0.76	MS Target Conc. (c) (1, g, f):	
MB Status vs Numencial Indicator: MB Status vs. MDC:	Pass	MSD Target Conc. (pc2(L, g, F): MSD Target Conc. (pc2(L, g, F): MS Sector I Inconduitive (robendrady)	
boratory Control Sample Assessment	LCSD (Y or N)? N	MSD Spike Uncertainty (calculated):	
Count Date.	LCS59153 LCSD5	9153 Sample Result Counting Uncertainty (OCi/L. D. F):	
Spike I.D.:	19-033	Sample Recting Control of the Recting Street streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets streets s	
Decay Corrected Spike Concentration (pC//mL): Volume Used (mL):	24.039 0.10	matrix spike result counting uncertainty (pourt, g. r.). Sample Matrix Spike Duplicate Result:	
Aliquot Volume (1, g, F):	0.505	Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): MS Ni medical Derformance Indirator	
Uncertainty (Catculated):	0.057	MSD Numerical Performance Indicator:	
Result (pCi/L, g, F):	5.078	MS Percent Recovery:	
LCS/LCSU Counting Uncertainty (pCirt., g. r.): Numerical Performance Indicator:	1.21	MS Status vs Numerical Indicator:	
Percent Recovery:	106.78%	MSD Status vs Numerical Indicator: MS Status vs Recovery:	
Status vs Nutification.	Pass	MSD Status vs Recovery:	
Upper % Recovery Limits: Lawer % Recovery Limits:	125% 75%	MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:	
		Matrix SnikaMatrix Snika Dunlicata Samnja Accacemant	
plicate Sample Assessment		mauly ophematic opine pupilere cample poccoment	
Sample I.D.: Duplicate Sample I.D.	92525363011 Enter Du 92525363011DUP sample	Sample I.D. Dis if Sample MS.LD.	
Sample Result Counting Uncertainty (PCVL, 9, F):	0.137 LCS/LC	Sample Matrix Ford	
Sample Duplicate Result Counting Uncertainty (pCiVL, g, F): Sample Duplicate Result Counting Uncertainty (pCiVL, g, F):	0.103 Une space	: DETOW. MAIN'S ONCE RESULT COUNTING UNCERTAINTY (PCML, 9, r./. Sample Matrix Spike Duplicate Result:	
Are sample and/or duplicate results below RL?	See Below#	Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator Duplicate RPD:	64.02% 9252530 92525363	011DUP (Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	
Duplicate Status vs Numerical Indicator.	N/A Eaitere	MS/ MSD Duplicate Status vs Numerical Indicator: MS/ MSD Dunlicate Status vs RPD:	
Cupincate Status VS NFD.	r all 25%	More interesting the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco	
## Evaluation of duplicate precision is not applicable if either the s	sample or duplicate results are	rbelow the MDC.	
omments:	J	OK	などし
28arch must be reprepted due to unacceptable precision. (N )	1211× m41 4		\C_\
		A CONTRACT	12/22/5WAN
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# **Quality Control Sample Performance Assessment**

MS/MSD 2

MS/MSD 1

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

Sample Collection Date:

Sample Matrix Spike Control Assessment

Spike I.D.:

MS/MSD Decay Corrected Spike Concentration (pCi/mL)

MS Target Conc.(pCi/L, g, F): MSD Aliquot (L, g, F):

MS Aliquot (L. g. F):

Spike Volume Used in MS (mL) Spike Volume Used in MSD (mL)

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Ra-226 LAL 3/10/2021 59153 59153 DW 2112394 0.043 0.110 0.264 0.76 0.76 Pass 0.76 Pass 0.76 Pass	3/22/2021 19-033
Ϋ́	
Test Analyst Date: Worklist: Worklist: Matrix: MB Sample ID MB concentration: MB Numerical Performance Indicator. MB Numerical Performance Indicator. MB Status vs. MDC: MB Status vs. MDC:	Spike I.D.:
fethod Blank Assessment	

Sample I.D.	Enter Duplicate	LCS59153	Sample I.D.:
Matrix Spike/Matrix Spike Duplicate Sample Assessment			Duplicate Sample Assessment
MS/MSD Lower % Recovery Limits:	75%	75%	Lower % Recovery Limits
MS/MSD Upper % Recovery Limits:	125%	125%	Upper % Recovery Limits:
MSD Status vs Recovery:	Pass	Pass	Status vs Recovery:
MS Status vs Recovery:	N/A	N/A	Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:	104.01%	106.78%	Percent Recovery:
MS Status vs Numerical Indicator:	0.73	1.21	Numerical Performance Indicator:
MSD Percent Recovery:	0.508	0.518	LCS/LCSD Counting Uncertainty (pCi/L, g, F):
MS Percent Recovery:	4.939	5.078	Result (pCi/L, g, F):
MSD Numerical Performance Indicator.	0.057	0.057	Uncertainty (Catculated):
MS Numerical Performance Indicator:	4.749	4.756	Target Conc. (pCi/L, g, F):
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.506	0.505	Aliquot Volume (L, g, F):
Sample Matrix Spike Duplicate Result:	0.10	0.10	Volume Used (mL):
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	24.039	24.039	Decay Corrected Spike Concentration (pCi/mL):
Sample Matrix Spike Result:	19-033	19-033	Spike I.D.:
Sample Result Counting Uncertainty (pCi/L, g, F):	3/22/2021	3/22/2021	Count Date:
Sample Result	LCSD59153	LCS59153	
MSD Spike Uncertainty (calculated):	÷ ۲	LCSD (Y or N)?	Laboratory Control Sample Assessment
MS Spike Uncertainty (calculated):			
MSD Target Conc. (pCi/L, g, F):		Pass	MB Status vs. MDC:

licate Sample Assessment			Matrix Spike/Matrix Spike Duplicate Sample Assessment
Samole I.D.:	LCS59153	Enter Duplicate	Sample I.D
Duplicate Sample I.D.	LCSD59153	sample IDs if	Sample MS I.D
Sample Result (pCi/L, g, F):	5.078	other than	Sample MSD I.D
Sample Result Counting Uncertainty (pCi/L, g, F):	0.518	LCS/LCSD in	Sample Matrix Spike Result
Sample Duplicate Result (pCi/L, g, F):	4.939	the space below.	Matrix Spike Result Counting Uncertainty (pCi/L, g, F)
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.508		Sample Matrix Spike Duplicate Result
Are sample and/or duplicate results below RL?	Q	1	Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F)
Duplicate Numerical Performance Indicator:	0.375	92525363011	Duplicate Numerical Performance Indicator
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.62%	92525363011DUP	(Based on the Percent Recoveries) MS/ MSD Duplicate RPD
Duplicate Status vs Numerical Indicator.	NA		MS/ MSD Duplicate Status vs Numerical Indicator
Duplicate Status vs RPD:	Pass		MS/ MSD Duplicate Status vs RPD
% RPD Limit	25%		% RPD Limi

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

Comments:

1 of 1



# **Quality Control Sample Performance Assessment**

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51	MSD 1 MS/MSD 2																																		
Analyst Must Manually Enter All Fields Highlighted in Yellov	Samula Matrix Snike Control Assessment	Sample Collection Date:	Sample I.D. Sample M.I.D.	Sample Wou Lu. Spike I.D.:	MS/MSD Decay Corrected Spike Concentration (pCi/mL):	Spike Volume Used in MSD (mL): Soike 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 (catculated):	MSD Spike Uncertainty (calculated):	Sample Result	Sample Result Counting Uncertainty (pCift, g, F):	Matrix Solke 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:	MSU FORCENTS 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 MSU LU.	Sample Matrix Spike Result Counting Uncertainty (pCi/L, g, F);	Sample Matrix Spike Duplicate Result:	Marry Spike pupilcale Result Country Uncertainly (puint, g, r);	(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	MS/ MSD Duplicate Status vs Numerical Indicator:	MS/ MSD Duplicate Status vs RPD: % RPD I imit	
											<b>&gt;</b>	LCSD59154	3/22/2021	24.039	0.10	0.505	4.756	0.057	4.926	20c.0	103.59%	NA	Pass	125% 75%		Enter Duplicate	sample IDs if		the space below.	•					
Ra-226	1 41	3/10/2021	59154 DW		2112395	0.051	0.242	0.97	N/A Pass		CSD (Y or N)?	LCS59154	3/22/2021	24.039	0.10	0.505	4.759	0,057	5.732	0.545 3.45	120.45%	A/A	Pass	125% 75%		LCS59154	LCSD59154	5.732	0.343 4.926	0.502	NO CON	4. 144 15.06%	N/A	Pass 25%	
Pace Analytical www.pareness.com	Analyst	Date:	Worklist: Matrix:	fethod Blank Assessment	MB Sample ID	MB Concentration: M/B Constinue Uncertainty	WB MDC:	MB Numerical Performance Indicator.	MB Status vs Numerical Indicator: MB Status vs. MDC:		aboratory Control Sample Assessment	·	Count Date:	Decay Corrected Spike Concentration (oCi/mL):	Volume Used (mL):	Aliquot Volume (L, g, F):	Target Conc. (pCi/L, g, F):	Uncertainty (Calculated):	POSILOSI OSILOSI OSILOSI (PCVL, 9, F):	LUS/LUSU COURING UNCERTAINTY (PU/LL, g, F.).; Numerical Performance Indicator	Percent Recovery:	Status vs Numerical Indicator.	Status vs Recovery:	Upper % Recovery Limits: Lower % Recovery Limits:	Ouplicate Sample Assessment	Sample I.D.:	Duplicate Sample I.D.	Sample Result (pCML, g, F):	sample result counting uncertainty (pCvL, g, F); Sample Duplicate Result (pCvL, g, F);	Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	Are sample and/or duplicate results below KL?	Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	Duplicate Status vs Numerical Indicator:	Duplicate Status vs RPD: % RPD I imit-	-

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

Comments:

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1 of 1

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		MS/MSD 2																															-			
	Yellow.	1 USW/SW																																		
TORMANCE ASSESSMENT	<u>Analyst Must Manually Enter All Fields Highlighted in '</u>	Sample Matrix Spike Control Assessment	Sample Collection Date:	Sample I.D. Sample MS I.D.	Sample MSD (.D.	Aprile I.D.: MS/MSD Decay Corrected Spike Concentration (pCi/mL):	Spike Volume Used in MS (mL):	Spike Volume Used in MSD (mL):	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 (PU/L, 9, 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	MID 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 Counting Uncertainty (PU/L, 9, + ); Samile Matrix Snike Duniticate 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:	RPD Limit
imple rer												Z	LCSD59154														Enter Duplicate	sample IDs if	other than	LCS/LCSD in	the space below.		92525214001	92525214001DUP		
ontrol 38	Ra-776	TAL	3/10/2021	59154 DW		2112395	0.051	0.104	0.242	A/A	Pass	CSD (V or N12	LCS59154	3/22/2021	24.039	0.10	0.505	0.057	5.732	0.549	3.45	120.45%	N/A Dacc	125%	75%		92525214001	92525214001DUP	0.114	0.189	0.134	See Below ##	-0.180	16.34%	N/A	25%
	Face Analytical mucrosoft.cm	Analvst	Date:	Worklist		Method Blank Assessment MB Samole ID	MB concentration:	M/B Counting Uncertainty:	MB Numerical Performance Indicator	MB Status vs Numerical Indicator:	MB Status vs. MDC:	l charton Control Samola Accecement		Count Date:	Decay Corrected Spike Concentration (pCi/mL):	Volume Used (mL):	Aliquot Volume (L, g, F):	Larger Conc. (purc., g, r), - Brownainty (Catculated)	Result (pCiA, g, F):	LCS/LCSD Counting Uncertainty (pCi/l., g, F):	Numerical Performance Indicator:	Percent Recovery:	Status vs Numerical Indicator:	Upper & Recovery Limits:	Lower % Recovery Limits:	Duplicate Sample Assessment	Sample (D.:	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):	Sample puppicate result counting uncertaining (porture, 9, r.).	Duplicate Numerical Performance Indicator:	Duplicate RPD:	Duplicate Status vs Numerical Indicator:	UUPICATE STATUS VS KPU:

# Quality Control Sample Performance Assessment

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

Comments:

Anna Analitical

# **Quality Control Sample Performance Assessment**

	t Must Manually Enter All Fields Highlighted in Yellow.	Attrix 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.: Spike I.D.: Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Target Conc. (pc): I, 9, F): MSD Aliquot (L, 9, F): MSD Target Conc. (pC/i, 9, F):	MS Spike Uncertainty (calculated): MSD Snike 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):	Matrix Spike Duplicate Result Spike Duplicate result. Matrix Spike Duplicate Result 2 Spigne SCU (CiCiI, 9, 5). Mc Numerical Destructions Indications	MSD Numerical Performance Indicator:	MSP Percent Recovery:	MS Status vs Numerical Indicator:	MSD Status vs Numericat Indicator.	MSD Status vs Recovery: MSD Status vs Recovery:	MS/MSD Upper Secorery Limits: MS/MSD Lower % Recovery Limits:	vike/Matrix Spike Duplicate Sample Assessment	Samole I.D.	Sample MS I.D.	Sample MSD I.D.	Sample Matrix Spike Result:	Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	Sampte Matrix Spike Dunicate Result 2 Sigma CSU (nCit) - 0. F):	Duplicate Numerical Performance Indicator;	sed on the Percent Recoveries) MS/ MSD Duplicate RPD:	MS/ MSD Duplicate Status vs Numerical Indicator:	MC/ MCD Durgicate Status ve DDD-
	Ra-228	VAL 3/11/2021 59157 WT	2112538 0.312 0.330 0.686 1.85 Pass Pass	CSD (Y or NP	LCS59157	3/15/2021 21-003	38.455	0.810	0.233	3.492	-2.75	73.55%	Pass	135% 60%		LCS59157 E	LCSD59157	3.492	0.863	2.971 th	40/0	0.875	16.54%	Pass	Dace
Ra-228 VAL 3/11/2021 59157 59157 59157 59157 59157 59157 59157 59157 59157 59157 59157 59157 573.55% NVA 21-003 3.455 0.10 6.886 1.85 73.55% NVA Pass 1.685 1.85 73.55% NVA Pass 1.685 1.85 73.55% NVA Pass 1.685 1.685 1.85 1.85 1.437 1.003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.1-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003 2.2-003	Pace Analytical memory and the test	Analyst Date: Worklist Mathx:	Method Blank Assessment MB Concentration: MB concentration: MB 2000 MB Nurmerical Performance Indicator: MB Status vs Nurmerical indicator: MB Status vs. MDC:	Laboratory Control Samole Assessment		Count Date: Spike I.D.:	Decay Corrected Spike Concentration (pCi/mL):	Volume Used (nL): Aliquot Volume (L, g, F): Transe Corra / Ford	Uncertainty (Calculated):	Result (pC/I/, g, F): LOSH CED 3 Shama CELL (ACKII, G E):	LOOKLOOD 2 SIGNA COU (POWL, 9, F). Numerical Performance Indicator:	Percent Recovery.	Status vs Numencal Indicator: Status vs Recovery	Upper & Recovery Limits: Lower % Recovery Limits:	Duplicate Sample Assessment	Samole I.D.:	Duplicate Sample I.D.	Sample Result (pCi/L, g, F):	Sample Result 2 Sigma CSU (pCift, g, F):	Sample Duplicate Result (pCl/f, g, F):	oarrpie ∪upiicale Kesuli ∠ orgria ∪o∪ (µ∪v⊾, g, r ).  Are samole and/or di inficate restilfs thelow RI ?	Duplicate Numerical Performance Indicator:	(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	Duplicate Status vs Numerical Indicator:	Distincts Station 1000-1

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

Comments:

1 of 1

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Ra-228 NELAC DW2 Printed: 3/16/2021 9:24 AM

# **Quality Control Sample Performance Assessment**

Pace Analytical			Analyst Must Manually Enter All Fields Highlighted in )	Yellow.	
Test	Ra-228				
Analyst	VAL		Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Date	3/15/2021		Sample Collection Date:		
Morklist.	50158		Cample I D		
Matrix:	MT N		Sample MS I.D.		
			Sample MSD I.D.		
Method Blank Assessment			Spike I.D.:		
MB Sample ID	2112539		MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
MB concentration:	0.219		Spike Volume Used in MS (mL):		
M/B 2 Sigma CSU:	0.271		Spike Volume Used in MSD (mL):		
MB MDC:	0.570		MS Aliquot (L, g, F):		
MB Numerical Performance Indicator:	1.59		MS Target Conc.(pCi/L, g, F):]		
MB Status vs Numerical Indicator: MB Status vs. MDC:	Pass Pass		MSD Target Conc. (pC/i/L, g, F): MSD Target Conc. (pC/i/L, g, F):		
			MS Spike Uncertainty (calculated):		
Laboratory Control Sample Assessment	LCSD (Y or N)?	<u> </u>	MSD Spike Uncertainty (calculated):		
*	LCS59158	LCSD59158	Sample Result:		
Count Date:	3/19/2021	3/19/2021	Sample Result 2 Sigma CSU (pCi/L, g, F):		
Spike I.D.:	21-003	21-003	Sample Matrix Spike Result:		
Decay Corrected Spike Concentration (pCi/mL):	38.405	38.405	Matrix Spike Result 2 Sigma CSU (pCi/L, g, F);		
Volume Used (mL):	0.10	0.10	Samole Matrix Solke Duplicate Result:		
Alianot Volume (L. o. F)	0.804	0.813	Matrix Snike Dunicate Result 2 Sinma CSI (nCi/		
Target Conc. (pC)(L. g. F):	4.777	4.724	MS Numerical Performance Indicator		
Incertainty (Calculated)	0.234	0.231	MSD Nimerical Performance Indicator		
Result (DC//	3.857	3.041	MS Percent Recovery		
LCS/LCSD 2 Stama CSU (pCi/L, g, F);	0.900	0.755	MSD Percent Recovery:		
Numerical Performance indicator:	-1.94	4.18	MS Status vs Numerical indicator:		
Percent Recovery:	80.76%	64.39%	MSD Status vs Numerical Indicator.		
Status vs Numerical Indicator:	N/A	N/A	MS Status vs Recovery:		
Status vs Recovery:	Pass	Pass	MSD Status vs Recovery:		
Upper % Recovery Limits:	135%	135%	MS/MSD Upper % Recovery Limits:		
Lower % Recovery Limits:	60%	80%	MS/MSD Lower % Recovery Limits:		
Duplicate Sample Assessment			Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.:	LCS59158	Enter Duplicate	Sample I.D.		
Duplicate Sample I.D.	LCSD59158	sample IDs if	Sample MS LD.		
Sample Result (oCi/L. o. F):	3.857	other than	Sample MSD I D		
Sample Result 2 Sigma CSU (pCl/L, g, F):	0.900	LCS/LCSD in	Sample Matrix Spike Result:		
Sample Duplicate Result (pCi/L, a, F):	3.041	the space below.	Matrix Spike Result 2 Sigma CSU (pCi/L, g, F);		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.755	,	Sample Matrix Spike Duplicate Result:		
Are sample and/or duplicate results below RL?	0N N		Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:	1.362		Duplicate Numerical Performance Indicator:		
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	22.55%		(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
Duplicate Status vs Numerical Indicator:	Pass		MS/ MSD Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:	Pass		MS/ MSD Duplicate Status vs RPD:		
% KPU LIMIC	36%		% RPD Limit.		

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



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# **Quality Control Sample Performance Assessment**

	MS/MSD 2																							_												
Yellow.	MS/MSD 1																																			
<u>Analyst Must Manually Enter All Fields Highlighted in </u>	Sample Matrix Spike Control Assessment Sample Collection Date:	Sample I.D. Sample MS I.D.	Sample MSD I.D.	MS/MSD Decay Corrected Spike Concentration (pCi/mL):	Spike Volume Used in MS (mL): Solve Volume Used in MSD (mL):	Spike Volutite Used it MSJ (Inc): 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:	odnipie nesul a olgina odo (powa 9, r). Samola Matrix Soike Result	Matrix Spike Result 2 Sigma CSU (pCi/l, g, F):	Sample Matrix Spike Duplicate Result:	Matrix Spike Duplicate Result 2 Sigma CSU (pCVL, g, F):	MS Numerical Performance Indicator:	MSD Numerical Performance Indicator:	MSD Percent Recovery: MSD Percent Recovery:	MS Status vs Numerical Indicator	MSD Status vs Numericai Indicator:	MS Status vs Recovery:	MSD Status vs Recovery:	MS/MSD Upper % Recovery Limits:	MO/MOL LOWER % RECOVERY LITHUS.	Matrix Spike/Matrix Spike Duplicate Sample Assessment	C Samula I D	Samula 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: (Pased on the Demont Demonstry MCD Duplicate DDD)	MSX/MSD Dunicate Status vs Numarical Indicator	MS/ MSD Duplicate Status vs mutiferical mucator.	% RPD Limit:
										۲	LCSD59159	21-003	38.419	0.10	0.801	4.794	0.235	4.001 0.884	-1.70	83.47%	MA	Pass	135%	%.00		Enter Dunicate	cample IDc if	other than	LCS/LCSD in	the space below.						
Ra-228	VAL 3/15/2021	59159 WT		2112540	0.387 0.346	0.633	2.40	Warning Pass		LCSD (Y or N)?	LCS59159	21-003	38.419	0.10	0.810	4.741	0.232	4.343 0.951	-0.79	91,66%	NA	Pass	135%	80%		1.0060160	1 05050150	4.345	0.951	4.001	0.884	9 Z	0.519	Dare	Pass	36%
Pace Analytical" Test	Analyst Date	Worklist	thad Blank Accessment	MB Sample ID	MB concentration: M/A 3 Simma CSU		MB Numerical Performance Indicator:	MB Status vs Numerical Indicator: MB Status vs. MDC:		boratory Control Sample Assessment		Spike I D -	Decay Corrected Spike Concentration (pCi/mL):	Volume Used (mL):	Aliquot Volume (L, g, F):	Target Conc. (pCVL, g, F):	Uncertainty (Calculated):	Result (POVL, 9, F); LCS/LCSD 2 Sinna CSLL/nCi/L of F)·	Numerical Performance Indicator:	Percent Recovery:	Status vs Numerical Indicator:	Status vs Recovery:	Upper % Recovery Limits:	LOWER % RECOVERY LIMITS.	plicate Sample Assessment	, O I almuco	Dunicate Sample I D	Sample Result (pCi/) - a. 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?	Duplicate Numerical Performance Indicator: /Based on the LCS/LCS/LDBrown Derroweries/Dunlicate DDD:	(based of the ECO/ECOO Fercent recovered) Duplicate AF D. Dunificate Status ve Numerical Indicator	Dupicare status vs Nutificate Italicator. 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:

Ra-228 NELAC DW2 Printed: 3/19/2021 11:00 AM

1 of 1

6



Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

March 26, 2021

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

RE: Project: YATES Pace Project No.: 92525335

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between March 02, 2021 and March 05, 2021. 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,

the Paper

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR Lauren Coker, Georgia Pwer Geoffrey Gay, ARCADIS - Atlanta Kristen Jurinko Kelley Sharpe, ARCADIS - Atlanta Alex Simpson, Arcadis Samantha Thomas Maribel Vital





Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

### CERTIFICATIONS

Project: YATES Pace Project No.: 92525335

### Pace Analytical Services Charlotte

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

### Pace Analytical Services Asheville

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

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

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

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



Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

### SAMPLE SUMMARY

Project: YATES Pace Project No.: 92525335

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92525335001	YGWA-5I	Water	03/02/21 14:05	03/02/21 17:30
92525335002	YGWA-5D	Water	03/02/21 14:40	03/02/21 17:30
92525335003	DUP-1	Water	03/02/21 00:00	03/02/21 17:30
92525335005	YGWA-14S	Water	03/02/21 11:20	03/02/21 17:30
92525335006	YGWA-30I	Water	03/01/21 16:25	03/02/21 17:30
92525335007	FB-01	Water	03/02/21 11:30	03/02/21 17:30
92525335008	DUP-01	Water	03/02/21 00:00	03/02/21 17:30
92525335009	FB-01	Water	03/02/21 15:20	03/02/21 17:30
92525335011	YGWA-40	Water	03/04/21 10:10	03/05/21 09:20
92525335012	YGWA-17S	Water	03/03/21 12:20	03/05/21 09:20
92525335013	YGWA-18S	Water	03/03/21 13:50	03/05/21 09:20
92525335014	YGWA-18I	Water	03/03/21 15:00	03/05/21 09:20
92525335015	YGWA-39	Water	03/04/21 10:20	03/05/21 09:20
92525335016	YGWA-1D (030321)	Water	03/03/21 14:25	03/05/21 09:20
92525335017	YGWA-1I (030321)	Water	03/03/21 13:35	03/05/21 09:20
92525335018	YGWA-2I (030321)	Water	03/03/21 11:45	03/05/21 09:20
92525335019	YGWA-3I (030321)	Water	03/03/21 17:00	03/05/21 09:20
92525335020	YGWA-3D (030321)	Water	03/03/21 16:00	03/05/21 09:20
92525335021	EB-02 (03032021)	Water	03/03/21 17:15	03/05/21 09:20
92525335022	YGWA-4I	Water	03/03/21 10:35	03/05/21 09:20
92525335023	YGWA-20S	Water	03/03/21 09:40	03/05/21 09:20
92525335024	YGWA-21I	Water	03/04/21 09:35	03/05/21 09:20



### SAMPLE ANALYTE COUNT

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92525335001	YGWA-5I	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525335002	YGWA-5D	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525335003	DUP-1	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525335005	YGWA-14S	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		SM 2450C-2011	ALW	
		EPA 300.0 Rev 2.1 1993	JLH	:
2525335006	YGWA-30I	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525335007	FB-01	EPA 6010D	DRB	
		EPA 6020B	CW1	1:
		EPA 7470A	VB	
		SM 2450C-2011	JRS	
		EPA 300.0 Rev 2.1 1993	JLH	3
92525335008	DUP-01	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	JRS	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525335009	FB-01	EPA 6010D	DRB	ſ
		EPA 6020B	CW1	12
		EPA 7470A	VB	
		SM 2450C-2011	JRS	



### SAMPLE ANALYTE COUNT

Project:	YATES				
Pace Project No	o.: 92525335				
Lab ID	Sample ID	Method	Analysts	Analytes Reported	
	_	EPA 300.0 Rev 2.1 1993	JLH	3	
92525335011	YGWA-40	EPA 6010D	КН	1	
		EPA 6020B	CW1	12	
		EPA 7470A	VB	1	
		SM 2450C-2011	ALW	1	
		EPA 300.0 Rev 2.1 1993	CDC	3	
92525335012	YGWA-17S	EPA 6010D	КН	1	
		EPA 6020B	CW1	12	
		EPA 7470A	VB	1	
		SM 2450C-2011	ALW	1	
		EPA 300.0 Rev 2.1 1993	CDC	3	
92525335013	YGWA-18S	EPA 6010D	КН	1	
		EPA 6020B	CW1	12	
		EPA 7470A	VB	1	
		SM 2450C-2011	ALW	1	
		EPA 300.0 Rev 2.1 1993	CDC	3	
92525335014	YGWA-18I	EPA 6010D	КН	1	
		EPA 6020B	CW1	12	
		EPA 7470A	VB	1	
		SM 2450C-2011	AW1	1	
		EPA 300.0 Rev 2.1 1993	CDC	3	
92525335015	YGWA-39	EPA 6010D	КН	1	
		EPA 6020B	CW1	12	
		EPA 7470A	VB	1	
		SM 2450C-2011	ALW	1	
		EPA 300.0 Rev 2.1 1993	CDC	3	
92525335016	YGWA-1D (030321)	EPA 6010D	KH	1	
		EPA 6020B	CW1	12	
		SM 2450C-2011	AW1	1	
		EPA 300.0 Rev 2.1 1993	CDC	3	
92525335017	YGWA-1I (030321)	EPA 6010D	KH	1	
		EPA 6020B	CW1	12	
		SM 2450C-2011	AW1	1	
		EPA 300.0 Rev 2.1 1993	CDC	3	
92525335018	YGWA-2I (030321)	EPA 6010D	KH	1	
		EPA 6020B	CW1	12	
		SM 2450C-2011	AW1	1	



### SAMPLE ANALYTE COUNT

Project:	YATES			
Pace Project No	o.: 92525335			
Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	CDC	3
92525335019	YGWA-3I (030321)	EPA 6010D	КН	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525335020	YGWA-3D (030321)	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525335021	EB-02 (03032021)	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525335022	YGWA-4I	EPA 6010D	КН	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525335023	YGWA-20S	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
2525335024	YGWA-21I	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	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: YATES

Pace Project No.: 92525335

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525335001	YGWA-5I					
	Performed by	CUSTOME R			03/08/21 09:07	
	рН	5.63	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	2.6	mg/L	1.0	03/09/21 02:21	
EPA 6020B	Barium	0.019	mg/L	0.0050	03/05/21 16:43	
EPA 6020B	Boron	0.011J	mg/L	0.040	03/05/21 16:43	
EPA 6020B	Lead	0.000092J	mg/L	0.0010	03/05/21 16:43	
EPA 6020B	Lithium	0.0031J	mg/L	0.030	03/05/21 16:43	
SM 2450C-2011	Total Dissolved Solids	67.0	mg/L	10.0	03/04/21 14:30	
EPA 300.0 Rev 2.1 1993	Chloride	4.3	mg/L	1.0	03/06/21 20:37	
EPA 300.0 Rev 2.1 1993	Sulfate	2.3	mg/L	1.0	03/06/21 20:37	
92525335002	YGWA-5D					
	Performed by	CUSTOME R			03/08/21 09:07	
	рH	7.15	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	1.6	mg/L	1.0	03/09/21 02:41	
EPA 6020B	Barium	0.014	mg/L	0.0050	03/05/21 16:49	
EPA 6020B	Boron	0.0068J	mg/L	0.040	03/05/21 16:49	
EPA 6020B	Lead	0.000051J	mg/L	0.0010	03/05/21 16:49	
EPA 6020B	Lithium	0.0018J	mg/L	0.030	03/05/21 16:49	
SM 2450C-2011	Total Dissolved Solids	52.0	mg/L	10.0	03/04/21 14:30	
EPA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L	1.0	03/06/21 21:49	
EPA 300.0 Rev 2.1 1993	Sulfate	2.6	mg/L	1.0	03/06/21 21:49	
92525335003	DUP-1					
EPA 6010D	Calcium	1.5	mg/L	1.0	03/09/21 02:46	
EPA 6020B	Antimony	0.0015J	mg/L	0.0030	03/05/21 17:11	
EPA 6020B	Barium	0.014	mg/L	0.0050	03/05/21 17:11	
EPA 6020B	Boron	0.013J	mg/L	0.040	03/05/21 17:11	
EPA 6020B	Lead	0.000069J	mg/L	0.0010	03/05/21 17:11	
EPA 6020B	Lithium	0.0016J	mg/L	0.030	03/05/21 17:11	
SM 2450C-2011	Total Dissolved Solids	48.0	mg/L	10.0	03/04/21 14:30	
EPA 300.0 Rev 2.1 1993	Chloride	3.0	mg/L	1.0	03/06/21 22:04	
EPA 300.0 Rev 2.1 1993	Sulfate	2.0	mg/L	1.0	03/06/21 22:04	
92525335005	YGWA-14S					
	Performed by	CUSTOME R			03/08/21 09:07	
	рН	5.49	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	1.2	mg/L	1.0	03/09/21 02:56	
EPA 6020B	Barium	0.0076	mg/L	0.0050	03/05/21 17:23	
EPA 6020B	Beryllium	0.00018J	mg/L	0.00050	03/05/21 17:23	
EPA 6020B	Boron	0.017J	mg/L	0.040	03/05/21 17:23	
SM 2450C-2011	Total Dissolved Solids	67.0	mg/L	10.0	03/04/21 14:30	
EPA 300.0 Rev 2.1 1993	Chloride	4.9	mg/L	1.0	03/06/21 22:32	
EPA 300.0 Rev 2.1 1993	Sulfate	6.0	mg/L	1.0	03/06/21 22:32	



Project: YATES

Pace Project No.: 92525335

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525335006	YGWA-30I					
	Performed by	CUSTOME			03/08/21 09:07	
	рН	5.78	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	1.2	ma/L	1.0	03/09/21 03:00	
EPA 6020B	Barium	0.0070	ma/L	0.0050	03/05/21 17:58	
EPA 6020B	Cobalt	0.0061	ma/L	0.0050	03/05/21 17:58	
EPA 6020B	Lithium	0.0011J	ma/L	0.030	03/05/21 17:58	
SM 2450C-2011	Total Dissolved Solids	23.0	ma/L	10.0	03/04/21 10:19	D6
EPA 300.0 Rev 2.1 1993	Chloride	1.6	ma/L	1.0	03/06/21 22:47	
EPA 300.0 Rev 2.1 1993	Sulfate	0.88J	mg/L	1.0	03/06/21 22:47	
92525335007	FB-01					
EPA 6010D	Calcium	34.4	mg/L	1.0	03/09/21 03:05	
EPA 6020B	Barium	0.022	mg/L	0.0050	03/05/21 18:04	
EPA 6020B	Chromium	0.00062J	mg/L	0.0050	03/05/21 18:04	
EPA 6020B	Lithium	0.0016J	mg/L	0.030	03/05/21 18:04	
SM 2450C-2011	Total Dissolved Solids	65.0	mg/L	10.0	03/05/21 11:04	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	03/06/21 23:01	
EPA 300.0 Rev 2.1 1993	Sulfate	2.2	mg/L	1.0	03/06/21 23:01	
92525335008	DUP-01					
EPA 6010D	Calcium	1.2	mg/L	1.0	03/09/21 03:20	
EPA 6020B	Barium	0.0078	mg/L	0.0050	03/05/21 18:09	
EPA 6020B	Beryllium	0.00020J	mg/L	0.00050	03/05/21 18:09	
EPA 6020B	Boron	0.016J	mg/L	0.040	03/05/21 18:09	
SM 2450C-2011	Total Dissolved Solids	32.0	mg/L	10.0	03/05/21 11:04	
EPA 300.0 Rev 2.1 1993	Chloride	5.0	mg/L	1.0	03/06/21 23:16	
EPA 300.0 Rev 2.1 1993	Sulfate	6.1	mg/L	1.0	03/06/21 23:16	
92525335011	YGWA-40					
	Performed by	CUSTOME			03/08/21 09:07	
		K	Ctd Linita		02/08/24 00:07	
	pH Calaium	5.23	Sta. Units	1.0	03/08/21 09:07	
	Dariura	4.0	mg/L	1.0	03/10/21 05:29	
EPA 6020B	Barium	0.032	mg/L	0.0050	03/09/21 15:48	
EPA 6020B	Beryllium	0.00021J	mg/L	0.00050	03/09/21 15:48	
EPA 6020B	Boron	0.078	mg/L	0.040	03/09/21 15:48	
SM 2450C-2011	Iotal Dissolved Solids	57.0	mg/L	10.0	03/06/21 12:32	
EPA 300.0 Rev 2.1 1993	Chioride	4.9	mg/L	1.0	03/13/21 17:54	
EPA 300.0 Rev 2.1 1993	Suirate	21.5	mg/L	1.0	03/13/21 17:54	
92525335012	YGWA-17S	CUSTOME			00/00/04 00:07	
	Performed by	R			03/08/21 09:07	
	рН	5.52	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	2.5	mg/L	1.0	03/10/21 05:59	
EPA 6020B	Barium	0.017	mg/L	0.0050	03/09/21 15:54	
EPA 6020B	Beryllium	0.000099J	mg/L	0.00050	03/09/21 15:54	
EPA 6020B	Boron	0.010J	mg/L	0.040	03/09/21 15:54	
EPA 6020B	Chromium	0.00082J	mg/L	0.0050	03/09/21 15:54	



Project: YATES

Pace Project No.: 92525335

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525335012	YGWA-17S					
SM 2450C-2011	Total Dissolved Solids	57.0	mg/L	10.0	03/05/21 15:36	
EPA 300.0 Rev 2.1 1993	Chloride	7.1	mg/L	1.0	03/13/21 18:10	
EPA 300.0 Rev 2.1 1993	Sulfate	5.2	mg/L	1.0	03/13/21 18:10	
92525335013	YGWA-18S					
	Performed by	CUSTOME R			03/08/21 09:07	
	рН	5.31	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	0.96J	mg/L	1.0	03/10/21 06:03	
EPA 6020B	Antimony	0.00067J	mg/L	0.0030	03/09/21 16:17	
EPA 6020B	Barium	0.017	mg/L	0.0050	03/09/21 16:17	
EPA 6020B	Beryllium	0.00011J	mg/L	0.00050	03/09/21 16:17	
EPA 6020B	Boron	0.0094J	mg/L	0.040	03/09/21 16:17	
EPA 6020B	Chromium	0.0010J	mg/L	0.0050	03/09/21 16:17	
EPA 6020B	Lead	0.000076J	mg/L	0.0010	03/09/21 16:17	
EPA 6020B	Lithium	0.0021J	mg/L	0.030	03/09/21 16:17	
SM 2450C-2011	Total Dissolved Solids	37.0	mg/L	10.0	03/05/21 15:36	
EPA 300.0 Rev 2.1 1993	Chloride	7.2	mg/L	1.0	03/13/21 18:56	
EPA 300.0 Rev 2.1 1993	Sulfate	1.0	mg/L	1.0	03/13/21 18:56	
92525335014	YGWA-18I					
	Performed by	CUSTOME R			03/08/21 09:07	
	рН	5.89	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	5.2	mg/L	1.0	03/10/21 06:08	
EPA 6020B	Barium	0.023	mg/L	0.0050	03/09/21 16:23	
EPA 6020B	Chromium	0.00087J	mg/L	0.0050	03/09/21 16:23	
EPA 6020B	Lithium	0.0034J	mg/L	0.030	03/09/21 16:23	
SM 2450C-2011	Total Dissolved Solids	95.0	mg/L	10.0	03/06/21 13:09	
EPA 300.0 Rev 2.1 1993	Chloride	7.0	mg/L	1.0	03/13/21 19:12	
92525335015	YGWA-39					
	Performed by	CUSTOME R			03/08/21 09:07	
	рН	5.54	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	8.2	mg/L	1.0	03/10/21 06:13	
EPA 6020B	Barium	0.028	mg/L	0.0050	03/09/21 16:28	
EPA 6020B	Boron	0.033J	mg/L	0.040	03/09/21 16:28	
EPA 6020B	Cadmium	0.00030J	mg/L	0.00050	03/09/21 16:28	
EPA 6020B	Cobalt	0.00071J	mg/L	0.0050	03/09/21 16:28	
EPA 6020B	Lithium	0.0084J	mg/L	0.030	03/09/21 16:28	
EPA 6020B	Molybdenum	0.0014J	mg/L	0.010	03/09/21 16:28	
SM 2450C-2011	Total Dissolved Solids	168	mg/L	10.0	03/06/21 12:32	
EPA 300.0 Rev 2.1 1993	Chloride	4.9	mg/L	1.0	03/13/21 19:28	
EPA 300.0 Rev 2.1 1993	Sulfate	12.0	mg/L	1.0	03/13/21 19:28	
92525335016	YGWA-1D (030321)					
	Performed by	CUSTOME			03/08/21 09:07	
	рН	к 7.20	Std. Units		03/08/21 09:07	



Project: YATES

Pace Project No.: 92525335

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525335016	YGWA-1D (030321)					
EPA 6010D	Calcium	14.1	mg/L	1.0	03/10/21 06:18	
EPA 6020B	Barium	0.0068	mg/L	0.0050	03/09/21 17:01	
EPA 6020B	Lead	0.000056J	mg/L	0.0010	03/09/21 17:01	
EPA 6020B	Lithium	0.012J	mg/L	0.030	03/09/21 17:01	
EPA 6020B	Molybdenum	0.0088J	mg/L	0.010	03/09/21 17:01	
SM 2450C-2011	Total Dissolved Solids	99.0	mg/L	10.0	03/06/21 13:09	
EPA 300.0 Rev 2.1 1993	Chloride	0.96J	mg/L	1.0	03/13/21 19:43	
EPA 300.0 Rev 2.1 1993	Fluoride	0.078J	mg/L	0.10	03/13/21 19:43	
EPA 300.0 Rev 2.1 1993	Sulfate	9.0	mg/L	1.0	03/13/21 19:43	
92525335017	YGWA-1I (030321)					
	Performed by	CUSTOME			03/08/21 09:07	
	рН	5.38	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	1.8	mg/L	1.0	03/10/21 06:23	
EPA 6020B	Barium	0.0094	mg/L	0.0050	03/09/21 17:07	
EPA 6020B	Cobalt	0.0030J	mg/L	0.0050	03/09/21 17:07	
EPA 6020B	Lithium	0.0025J	mg/L	0.030	03/09/21 17:07	
EPA 6020B	Molybdenum	0.0049J	mg/L	0.010	03/09/21 17:07	
SM 2450C-2011	Total Dissolved Solids	39.0	mg/L	10.0	03/06/21 13:09	
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	03/13/21 19:59	
EPA 300.0 Rev 2.1 1993	Sulfate	4.4	mg/L	1.0	03/13/21 19:59	
92525335018	YGWA-2I (030321)					
	Performed by	CUSTOME R			03/08/21 09:07	
	рН	7.92	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	25.6	mg/L	1.0	03/10/21 06:28	
EPA 6020B	Arsenic	0.00098J	mg/L	0.0050	03/09/21 17:12	
EPA 6020B	Barium	0.0041J	mg/L	0.0050	03/09/21 17:12	
EPA 6020B	Lithium	0.0016J	mg/L	0.030	03/09/21 17:12	
EPA 6020B	Molybdenum	0.0074J	mg/L	0.010	03/09/21 17:12	
SM 2450C-2011	Total Dissolved Solids	138	mg/L	10.0	03/06/21 13:10	
EPA 300.0 Rev 2.1 1993	Chloride	0.86J	mg/L	1.0	03/13/21 20:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.085J	mg/L	0.10	03/13/21 20:14	
EPA 300.0 Rev 2.1 1993	Sulfate	10.6	mg/L	1.0	03/13/21 20:14	
92525335019	YGWA-3I (030321)					
	Performed by	CUSTOME			03/08/21 09:07	
	рН	8.23	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	20.6	mg/L	1.0	03/10/21 06:32	
EPA 6020B	Barium	0.0031J	mg/L	0.0050	03/09/21 17:18	
EPA 6020B	Lithium	0.017J	mg/L	0.030	03/09/21 17:18	
EPA 6020B	Molybdenum	0.0036J	mg/L	0.010	03/09/21 17:18	
SM 2450C-2011	Total Dissolved Solids	111	mg/L	10.0	03/06/21 13:10	
EPA 300.0 Rev 2.1 1993	Chloride	0.99J	mg/L	1.0	03/13/21 21:00	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	03/13/21 21:00	
EDA 200 0 Day 0 4 4002	Sulfato	9.6	ma/l	1.0	03/13/21 21:00	M1



Project: YATES

Pace Project No.: 92525335

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525335020	YGWA-3D (030321)					
	Performed by	CUSTOME R			03/08/21 09:07	
	рН	8.39	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	29.8	mg/L	1.0	03/10/21 06:47	
EPA 6020B	Barium	0.0064	mg/L	0.0050	03/09/21 17:24	
EPA 6020B	Lithium	0.024J	mg/L	0.030	03/09/21 17:24	
EPA 6020B	Molybdenum	0.013	mg/L	0.010	03/09/21 17:24	
SM 2450C-2011	Total Dissolved Solids	137	mg/L	10.0	03/06/21 13:10	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	03/13/21 22:18	
EPA 300.0 Rev 2.1 1993	Fluoride	0.44	mg/L	0.10	03/13/21 22:18	
EPA 300.0 Rev 2.1 1993	Sulfate	7.0	mg/L	1.0	03/13/21 22:18	
92525335021	EB-02 (03032021)					
EPA 6010D	Calcium	33.3	mg/L	1.0	03/10/21 06:52	
EPA 6020B	Barium	0.023	mg/L	0.0050	03/09/21 17:29	
EPA 6020B	Chromium	0.00057J	mg/L	0.0050	03/09/21 17:29	
EPA 6020B	Lithium	0.0016J	mg/L	0.030	03/09/21 17:29	
SM 2450C-2011	Total Dissolved Solids	102	mg/L	10.0	03/06/21 13:10	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	ma/L	1.0	03/13/21 22:33	
EPA 300.0 Rev 2.1 1993	Sulfate	2.2	mg/L	1.0	03/13/21 22:33	
92525335022	YGWA-4I					
	Performed by	CUSTOME			03/08/21 09:07	
	рН	6.21	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	7.7	mg/L	1.0	03/10/21 06:56	
EPA 6020B	Barium	0.014	mg/L	0.0050	03/09/21 17:35	
EPA 6020B	Boron	0.0056J	mg/L	0.040	03/09/21 17:35	
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	03/09/21 17:35	
EPA 6020B	Lithium	0.012J	mg/L	0.030	03/09/21 17:35	
EPA 6020B	Selenium	0.0019J	mg/L	0.0050	03/09/21 17:35	
SM 2450C-2011	Total Dissolved Solids	80.0	mg/L	10.0	03/06/21 13:11	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	ma/L	1.0	03/13/21 22:49	
EPA 300.0 Rev 2.1 1993	Sulfate	7.8	mg/L	1.0	03/13/21 22:49	
92525335023	YGWA-20S					
	Performed by	CUSTOME			03/08/21 09:07	
	рH	5.89	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	2.4	mg/L	1.0	03/10/21 07:01	
EPA 6020B	Barium	0.015	mg/L	0.0050	03/09/21 17:56	
EPA 6020B	Bervllium	0.000068J	ma/L	0.00050	03/09/21 17:56	
EPA 6020B	Lead	0.000045J	ma/L	0.0010	03/09/21 17:56	
SM 2450C-2011	Total Dissolved Solids	53.0	ma/L	10.0	03/06/21 13:11	
EPA 300.0 Rev 2.1 1993	Chloride	2.7	mg/L	1.0	03/13/21 23:04	
92525335024	YGWA-21I					
	Performed by	CUSTOME R			03/08/21 09:07	
	рН	6.80	Std. Units		03/08/21 09:07	



Project: YATES

Pace Project No.: 92525335

Lab Sample ID Client Sample ID						
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525335024	YGWA-21I					
EPA 6010D	Calcium	8.7	mg/L	1.0	03/10/21 07:06	
EPA 6020B	Antimony	0.0014J	mg/L	0.0030	03/09/21 18:02	
EPA 6020B	Arsenic	0.00078J	mg/L	0.0050	03/09/21 18:02	
EPA 6020B	Barium	0.011	mg/L	0.0050	03/09/21 18:02	
EPA 6020B	Boron	0.0079J	mg/L	0.040	03/09/21 18:02	
EPA 6020B	Cobalt	0.0065	mg/L	0.0050	03/09/21 18:02	
EPA 6020B	Lithium	0.0062J	mg/L	0.030	03/09/21 18:02	
SM 2450C-2011	Total Dissolved Solids	110	mg/L	10.0	03/06/21 12:32	
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	03/13/21 23:20	
EPA 300.0 Rev 2.1 1993	Fluoride	0.091J	mg/L	0.10	03/13/21 23:20	
EPA 300.0 Rev 2.1 1993	Sulfate	4.5	mg/L	1.0	03/13/21 23:20	



Project: YATES

Pace Project No.: 92525335

Sample: YGWA-5I	Lab ID:	92525335001	Collecte	ed: 03/02/21	14:05	Received: 03/	02/21 17:30 Ma	atrix: Water	
_			Report						
Parameters	Results	Units	Limit		DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte	9					
Performed by	CUSTOME				1		03/08/21 09:07		
рН	5.63	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Met	hod: E	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	<b>A</b>				
Calcium	2.6	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 02:21	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: E	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	<b>A</b>				
Antimony	ND	mg/L	0.0030	0.00028	1	03/04/21 11:29	03/05/21 16:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 16:43	7440-38-2	
Barium	0.019	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 16:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 16:43	7440-41-7	
Boron	0.011J	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 16:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 16:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 16:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 16:43	7440-48-4	
Lead	0.000092J	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 16:43	7439-92-1	
Lithium	0.0031J	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 16:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 16:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 16:43	7782-49-2	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 10:52	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	450C-2011						
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
Total Dissolved Solids	67.0	mg/L	10.0	10.0	1		03/04/21 14:30		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
-	Pace Ana	lytical Services	s - Asheville	•					
Chloride	4.3	mg/L	1.0	0.60	1		03/06/21 20:37	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 20:37	16984-48-8	
Sulfate	2.3	ma/L	1.0	0.50	1		03/06/21 20:37	14808-79-8	



Project: YATES

Pace Project No.: 92525335

Sample: YGWA-5D	Lab ID:	9252533500	2 Collecte	ed: 03/02/21	1 14:40	) Received: 03/	02/21 17:30 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Service	s - Charlotte	9					
Performed by	CUSTOME				1		03/08/21 09:07		
рН	7.15	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Met	hod: E	PA 3010A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, C	3A				
Calcium	1.6	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 02:41	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: E	PA 3005A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, G	ΒA				
Antimony	ND	ma/L	0.0030	0.00028	1	03/04/21 11:29	03/05/21 16:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 16:49	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 16:49	7440-39-3	
Bervllium	ND	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 16:49	7440-41-7	
Boron	0.0068J	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 16:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 16:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 16:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 16:49	7440-48-4	
Lead	0.000051J	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 16:49	7439-92-1	
Lithium	0.0018J	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 16:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 16:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 16:49	7782-49-2	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: E	PA 7470A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, G	βA				
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 10:55	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM	2450C-2011						
	Pace Ana	lytical Service	s - Peachtre	e Corners, G	βA				
Total Dissolved Solids	52.0	mg/L	10.0	10.0	1		03/04/21 14:30		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
-	Pace Ana	lytical Service	s - Asheville	•					
Chloride	3.2	mg/L	1.0	0.60	1		03/06/21 21:49	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 21:49	16984-48-8	
Sulfate	2.6	ma/L	1.0	0.50	1		03/06/21 21:49	14808-79-8	



Project:	YATES									
Pace Project No.:	92525335									
Sample: DUP-1		Lab ID:	92525335003	Collecte	ed: 03/02/2	1 00:00	Received: 03/	02/21 17:30 Ma	atrix: Water	
				Report						
Parame	ters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical	Method: EPA 6	010D Pre	paration Met	thod: EF	PA 3010A			
		Pace Anal	ytical Services	- Peachtre	e Corners, C	GΑ				
Calcium		1.5	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 02:46	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, C	GA				
Antimony		0.0015J	mg/L	0.0030	0.00028	1	03/04/21 11:29	03/05/21 17:11	7440-36-0	
Arsenic		ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 17:11	7440-38-2	
Barium		0.014	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 17:11	7440-39-3	
Beryllium		ND	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 17:11	7440-41-7	
Boron		0.013J	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 17:11	7440-42-8	
Cadmium		ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 17:11	7440-43-9	
Chromium		ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 17:11	7440-47-3	
Cobalt		ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 17:11	7440-48-4	
Lead		0.000069J	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 17:11	7439-92-1	
Lithium		0.0016J	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 17:11	7439-93-2	
Molybdenum		ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 17:11	7439-98-7	
Selenium		ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 17:11	7782-49-2	
7470 Mercury		Analytical	Method: EPA 7	470A Pre	paration Met	hod: EF	PA 7470A			
		Pace Anal	ytical Services	- Peachtre	e Corners, C	GΑ				
Mercury		ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 10:57	7439-97-6	
2540C Total Dissol	ved Solids	Analytical	Method: SM 24	150C-2011						
		Pace Anal	ytical Services	- Peachtre	e Corners, C	GA				
Total Dissolved Solid	ds	48.0	mg/L	10.0	10.0	1		03/04/21 14:30		
300.0 IC Anions 28	Days	Analytical	Method: EPA 3	00.0 Rev 2	2.1 1993					
		Pace Anal	ytical Services	- Asheville						
Chloride		3.0	ma/L	1.0	0.60	1		03/06/21 22:04	16887-00-6	
Fluoride		ND	ma/L	0.10	0.050	1		03/06/21 22:04	16984-48-8	
Sulfate		2.0	mg/L	1.0	0.50	1		03/06/21 22:04	14808-79-8	



Project: YATES

Pace Project No.: 92525335

Sample: YGWA-14S	Lab ID: 92525335005 Collected: 03/02/21 11:20 Received: 03/02/21 17:30 Matrix: Water								
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Service	s - Charlotte	9					
Performed by	CUSTOME				1		03/08/21 09:07		
рН	5.49	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical	I Method: EPA	6010D Pre	paration Met	hod: E	PA 3010A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, C	βA				
Calcium	1.2	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 02:56	7440-70-2	
6020 MET ICPMS	Analytical	I Method: EPA	6020B Pre	paration Met	hod: E	PA 3005A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, C	βA				
Antimony	ND	mg/L	0.0030	0.00028	1	03/04/21 11:29	03/05/21 17:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 17:23	7440-38-2	
Barium	0.0076	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 17:23	7440-39-3	
Beryllium	0.00018J	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 17:23	7440-41-7	
Boron	0.017J	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 17:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 17:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 17:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 17:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 17:23	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 17:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 17:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 17:23	7782-49-2	
2540C Total Dissolved Solids	Analytical	Method: SM 2	2450C-2011						
	Pace Ana	lytical Service	s - Peachtre	e Corners, C	βA				
Total Dissolved Solids	67.0	mg/L	10.0	10.0	1		03/04/21 14:30		
300.0 IC Anions 28 Days	Analytical	I Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Service	s - Asheville	•					
Chloride									
	4.9	ma/L	1.0	0.60	1		03/06/21 22:32	16887-00-6	
Fluoride	<b>4.9</b> ND	mg/L mg/L	1.0 0.10	0.60 0.050	1 1		03/06/21 22:32 03/06/21 22:32	16887-00-6 16984-48-8	



Project: YATES

Pace Project No.: 92525335

Sample: YGWA-30I	Lab ID:	92525335006	Collecte	ed: 03/01/2	1 16:25	Received: 03/	/02/21 17:30 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Pace Ana	Method: lvtical Services	s - Charlotte	9					
Performed by	CUSTOME	,			1		03/08/21 09:07		
рН	я 5.78	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical Pace Ana	Method: EPA	6010D Pre - Peachtre	paration Me	thod: E GA	PA 3010A			
Calcium	1.2	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 03:00	7440-70-2	
6020 MET ICPMS	Analytical Pace Ana	Method: EPA lytical Services	6020B Pre s - Peachtre	paration Met e Corners, 0	hod: E GA	PA 3005A			
Antimony	ND	mg/L	0.0030	0.00028	1	03/04/21 11:29	03/05/21 17:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 17:58	7440-38-2	
Barium	0.0070	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 17:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 17:58	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 17:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 17:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 17:58	7440-47-3	
Cobalt	0.0061	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 17:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 17:58	7439-92-1	
Lithium	0.0011J	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 17:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 17:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 17:58	7782-49-2	
2540C Total Dissolved Solids	Analytical	Method: SM 2	450C-2011						
	Pace Ana	lytical Services	s - Peachtre	ee Corners, (	ЗA				
Total Dissolved Solids	23.0	mg/L	10.0	10.0	1		03/04/21 10:19		D6
300.0 IC Anions 28 Days	Analytical Pace Ana	Method: EPA lytical Services	300.0 Rev 2 s - Asheville	2.1 1993 9					
Chloride	1.6	ma/L	1.0	0.60	1		03/06/21 22:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 22:47	16984-48-8	
Sulfate	0.88J	mg/L	1.0	0.50	1		03/06/21 22:47	14808-79-8	



YATES

Project:

### ANALYTICAL RESULTS

Pace Project No.: 92525335									
Sample: FB-01	Lab ID:	92525335007	Collecte	ed: 03/02/2	1 11:30	Received: 03/	02/21 17:30 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Me	thod: El	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, (	GA				
Calcium	34.4	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 03:05	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Me	thod: El	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, (	ЗA				
Antimony	ND	mg/L	0.0030	0.00028	1	03/04/21 11:29	03/05/21 18:04	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 18:04	7440-38-2	
Barium	0.022	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 18:04	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 18:04	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 18:04	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 18:04	7440-43-9	
Chromium	0.00062J	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 18:04	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 18:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 18:04	7439-92-1	
Lithium	0.0016J	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 18:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 18:04	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 18:04	7782-49-2	
7470 Mercury	Analytical	Method: EPA 7	470A Pre	paration Me	thod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, (	GA				
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 11:07	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 24	450C-2011						
	Pace Ana	lytical Services	- Peachtre	e Corners, (	ЗA				
Total Dissolved Solids	65.0	mg/L	10.0	10.0	1		03/05/21 11:04		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville	ł					
Chloride	1.6	mg/L	1.0	0.60	1		03/06/21 23:01	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 23:01	16984-48-8	
Sulfate	2.2	mg/L	1.0	0.50	1		03/06/21 23:01	14808-79-8	



Project: YATES	ò								
Pace Project No.: 92525	335								
Sample: DUP-01	Lab ID:	92525335008	Collecte	ed: 03/02/2	1 00:00	Received: 03/	02/21 17:30 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	thod: E	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	ЗA				
Calcium	1.2	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 03:20	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: E	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	ЗA				
Antimony	ND	mg/L	0.0030	0.00028	1	03/04/21 11:29	03/05/21 18:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 18:09	7440-38-2	
Barium	0.0078	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 18:09	7440-39-3	
Beryllium	0.00020J	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 18:09	7440-41-7	
Boron	0.016J	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 18:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 18:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 18:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 18:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 18:09	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 18:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 18:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 18:09	7782-49-2	
7470 Mercury	Analytical	Method: EPA 7	470A Prej	paration Met	hod: El	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	ЗA				
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 11:09	7439-97-6	
2540C Total Dissolved Sol	ids Analytical	Method: SM 24	450C-2011						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Total Dissolved Solids	32.0	mg/L	10.0	10.0	1		03/05/21 11:04		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	5.0	mg/L	1.0	0.60	1		03/06/21 23:16	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 23:16	16984-48-8	
Sulfate	6.1	mg/L	1.0	0.50	1		03/06/21 23:16	14808-79-8	



YATES

Project:

### ANALYTICAL RESULTS

Pace Project No.: 92525335									
Sample: FB-01	Lab ID:	92525335009	Collecte	ed: 03/02/2	1 15:20	Received: 03/	/02/21 17:30 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Me	thod: E	PA 3010A			
	Pace Anal	ytical Services	s - Peachtre	e Corners, 0	GA				
Calcium	ND	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 03:24	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Me	thod: E	PA 3005A			
	Pace Anal	ytical Services	s - Peachtre	e Corners, (	GA				
Antimony	ND	mg/L	0.0030	0.00028	1	03/04/21 11:29	03/05/21 18:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 18:15	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 18:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 18:15	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 18:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 18:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 18:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 18:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 18:15	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 18:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 18:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 18:15	7782-49-2	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	thod: El	PA 7470A			
	Pace Anal	ytical Services	s - Peachtre	e Corners, 0	GA				
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 11:11	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	2450C-2011						
	Pace Anal	ytical Services	s - Peachtre	e Corners, (	GA				
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/05/21 11:05		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Anal	ytical Services	s - Asheville						
Chloride	ND	ma/L	1.0	0.60	1		03/06/21 23:30	16887-00-6	
Fluoride	ND	ma/L	0.10	0.050	1		03/06/21 23:30	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/06/21 23:30	14808-79-8	



Project: YATES

Pace Project No.: 92525335

Sample: YGWA-40	Lab ID:	92525335011	Collecte	ed: 03/04/21	10:10	Received: 03/	05/21 09:20 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte	9					
Performed by	CUSTOME				1		03/08/21 09:07		
рН	5.23	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Met	hod: E	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
Calcium	4.6	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 05:29	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: El	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 15:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 15:48	7440-38-2	
Barium	0.032	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 15:48	7440-39-3	
Beryllium	0.00021J	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 15:48	7440-41-7	
Boron	0.078	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 15:48	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 15:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 15:48	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 15:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 15:48	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 15:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 15:48	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 15:48	7782-49-2	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Meth	hod: El	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 10:52	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	450C-2011						
	Pace Ana	lytical Services	- Peachtre	e Corners, G	A				
Total Dissolved Solids	57.0	mg/L	10.0	10.0	1		03/06/21 12:32		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
-	Pace Ana	lytical Services	- Asheville						
Chloride	4.9	mg/L	1.0	0.60	1		03/13/21 17:54	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 17:54	16984-48-8	
Sulfate	21.5	ma/L	1.0	0.50	1		03/13/21 17:54	14808-79-8	



Project: YATES

Pace Project No.: 92525335

Sample: YGWA-17S	Lab ID:	92525335012	Collecte	ed: 03/03/21	12:20	Received: 03/	05/21 09:20 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte	9					
Performed by	CUSTOME				1		03/08/21 09:07		
рН	5.52	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Met	hod: El	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
Calcium	2.5	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 05:59	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: El	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 15:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 15:54	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 15:54	7440-39-3	
Beryllium	0.000099J	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 15:54	7440-41-7	
Boron	0.010J	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 15:54	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 15:54	7440-43-9	
Chromium	0.00082J	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 15:54	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 15:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 15:54	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 15:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 15:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 15:54	7782-49-2	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 10:54	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	450C-2011						
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
Total Dissolved Solids	57.0	mg/L	10.0	10.0	1		03/05/21 15:36		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
-	Pace Ana	lytical Services	- Asheville	•					
Chloride	7.1	mg/L	1.0	0.60	1		03/13/21 18:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 18:10	16984-48-8	
Sulfate	5.2	ma/L	1.0	0.50	1		03/13/21 18:10	14808-79-8	



Project: YATES

Pace Project No.: 92525335

Sample: YGWA-18S	Lab ID:	92525335013	Collecte	ed: 03/03/21	13:50	Received: 03/	05/21 09:20 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte	9					
Performed by	CUSTOME				1		03/08/21 09:07		
рН	5.31	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical	Method: EPA 6	6010D Pre	paration Met	hod: El	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
Calcium	0.96J	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:03	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Pre	paration Met	hod: El	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
Antimony	0.00067J	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 16:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 16:17	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 16:17	7440-39-3	
Beryllium	0.00011J	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 16:17	7440-41-7	
Boron	0.0094J	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 16:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 16:17	7440-43-9	
Chromium	0.0010J	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 16:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 16:17	7440-48-4	
Lead	0.000076J	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 16:17	7439-92-1	
Lithium	0.0021J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 16:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 16:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 16:17	7782-49-2	
7470 Mercury	Analytical	Method: EPA 7	7470A Pre	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 10:57	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 24	450C-2011						
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
Total Dissolved Solids	37.0	mg/L	10.0	10.0	1		03/05/21 15:36		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville	•					
Chloride	7.2	mg/L	1.0	0.60	1		03/13/21 18:56	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 18:56	16984-48-8	
Sulfate	1.0	mg/L	1.0	0.50	1		03/13/21 18:56	14808-79-8	



Project: YATES

Pace Project No.: 92525335

Sample: YGWA-18I	Lab ID:	92525335014	Collecte	ed: 03/03/21	1 15:00	Received: 03/	05/21 09:20 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte	9					
Performed by	CUSTOME				1		03/08/21 09:07		
рН	5.89	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical	Method: EPA 6	6010D Pre	paration Met	hod: El	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
Calcium	5.2	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:08	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: El	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	θA				
Antimony	ND	ma/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 16:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 16:23	7440-38-2	
Barium	0.023	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 16:23	7440-39-3	
Bervllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 16:23	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 16:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 16:23	7440-43-9	
Chromium	0.00087J	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 16:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 16:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 16:23	7439-92-1	
Lithium	0.0034J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 16:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 16:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 16:23	7782-49-2	
7470 Mercury	Analytical	Method: EPA	7470A Prej	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 10:59	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	450C-2011						
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
Total Dissolved Solids	95.0	mg/L	10.0	10.0	1		03/06/21 13:09		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
-	Pace Ana	lytical Services	- Asheville						
Chloride	7.0	mg/L	1.0	0.60	1		03/13/21 19:12	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 19:12	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/13/21 19:12	14808-79-8	



Project: YATES

Pace Project No.: 92525335

Sample: YGWA-39	Lab ID:	9252533501	5 Collecte	ed: 03/04/21	10:20	) Received: 03/	05/21 09:20 Ma	atrix: Water	
_			Report						<b>.</b> .
Parameters	Results	Units	Limit		DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Anal	lytical Service	s - Charlotte	;					
Performed by	CUSTOME				1		03/08/21 09:07		
рН	5.54	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Met	hod: E	PA 3010A			
	Pace Anal	lytical Service	s - Peachtre	e Corners, G	βA				
Calcium	8.2	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:13	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: E	PA 3005A			
	Pace Anal	lytical Service	s - Peachtre	e Corners, G	<b>A</b>				
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 16:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 16:28	7440-38-2	
Barium	0.028	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 16:28	7440-39-3	
Bervllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 16:28	7440-41-7	
Boron	0.033J	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 16:28	7440-42-8	
Cadmium	0.00030J	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 16:28	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 16:28	7440-47-3	
Cobalt	0.00071J	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 16:28	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 16:28	7439-92-1	
Lithium	0.0084J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 16:28	7439-93-2	
Molybdenum	0.0014J	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 16:28	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 16:28	7782-49-2	
7470 Mercury	Analytical	Method: EPA	7470A Prej	paration Met	hod: E	PA 7470A			
	Pace Anal	lytical Service	s - Peachtre	e Corners, G	βA				
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 11:01	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM	2450C-2011						
	Pace Anal	lytical Service	s - Peachtre	e Corners, G	<b>A</b>				
Total Dissolved Solids	168	mg/L	10.0	10.0	1		03/06/21 12:32		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Anal	lytical Service	s - Asheville						
Chloride	4.9	mg/L	1.0	0.60	1		03/13/21 19:28	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 19:28	16984-48-8	
Sulfate	12.0	mg/L	1.0	0.50	1		03/13/21 19:28	14808-79-8	



Project: YATES

Pace Project No.: 92525335

Sample: YGWA-1D (030321)	Lab ID:	92525335016	6 Collecte	ed: 03/03/2	1 14:25	Received: 03/	05/21 09:20 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Pace Ana	Method:	s - Charlotte						
				5					
Performed by	CUSTOME				1		03/08/21 09:07		
рН	7.20	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical Pace Ana	Method: EPA lytical Services	6010D Pre s - Peachtre	paration Me e Corners, 0	thod: El GA	PA 3010A			
Calcium	14.1	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:18	7440-70-2	
6020 MET ICPMS	Analytical Pace Ana	Method: EPA	6020B Pre s - Peachtre	paration Meter e Corners, 0	thod: El GA	PA 3005A			
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 17:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:01	7440-38-2	
Barium	0.0068	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:01	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:01	7440-48-4	
Lead	0.000056J	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:01	7439-92-1	
Lithium	0.012J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:01	7439-93-2	
Molybdenum	0.0088J	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:01	7782-49-2	
2540C Total Dissolved Solids	Analytical	Method: SM 2	450C-2011						
	Pace Ana	lytical Services	s - Peachtre	e Corners, (	GΑ				
Total Dissolved Solids	99.0	mg/L	10.0	10.0	1		03/06/21 13:09		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	s - Asheville	•					
Chloride	0.96J	mg/L	1.0	0.60	1		03/13/21 19:43	16887-00-6	
Fluoride	0.078J	mg/L	0.10	0.050	1		03/13/21 19:43	16984-48-8	
Sulfate	9.0	mg/L	1.0	0.50	1		03/13/21 19:43	14808-79-8	



Project: YATES

Pace Project No.: 92525335

Sample: YGWA-1I (030321)	Lab ID:	92525335017	Collecte	ed: 03/03/2	1 13:35	6 Received: 03/	05/21 09:20 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	s - Charlotte	9					
Performed by	CUSTOME				1		03/08/21 09:07		
рН	5.38	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Me	thod: E	PA 3010A			
	Pace Ana	lytical Services	s - Peachtre	e Corners, (	GΑ				
Calcium	1.8	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:23	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Me	thod: E	PA 3005A			
	Pace Ana	lytical Services	s - Peachtre	e Corners, (	ЗA				
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 17:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:07	7440-38-2	
Barium	0.0094	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:07	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:07	7440-47-3	
Cobalt	0.0030J	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:07	7439-92-1	
Lithium	0.0025J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:07	7439-93-2	
Molybdenum	0.0049J	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:07	7782-49-2	
2540C Total Dissolved Solids	Analytical	Method: SM 2	450C-2011						
	Pace Ana	lytical Services	s - Peachtre	e Corners, (	GΑ				
Total Dissolved Solids	39.0	mg/L	10.0	10.0	1		03/06/21 13:09		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	s - Asheville	•					
Chloride	1.2	ma/L	1.0	0.60	1		03/13/21 19:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 19:59	16984-48-8	
Sulfate	4.4	mg/L	1.0	0.50	1		03/13/21 19:59	14808-79-8	



Project: YATES

Pace Project No.: 92525335

Sample: YGWA-2I (030321)	Lab ID:	9252533501	B Collecte	ed: 03/03/2	1 11:45	Received: 03/	/05/21 09:20 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Pace Ana	Method:	s - Charlotte	2					
Performed by	CUSTOME		onanotte		1		03/08/21 09:07		
	R								
рН	7.92	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical Pace Ana	Method: EPA	6010D Pre s - Peachtre	paration Me	thod: E GA	PA 3010A			
Calcium	25.6	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:28	7440-70-2	
6020 MET ICPMS	Analytical Pace Ana	Method: EPA	6020B Pre s - Peachtre	paration Met e Corners, 0	thod: E GA	PA 3005A			
Antimony	ND	ma/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 17:12	7440-36-0	
Arsenic	0.00098J	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:12	7440-38-2	
Barium	0.0041J	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:12	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:12	7439-92-1	
Lithium	0.0016J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:12	7439-93-2	
Molybdenum	0.0074J	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:12	7782-49-2	
2540C Total Dissolved Solids	Analytical	Method: SM 2	2450C-2011						
	Pace Ana	lytical Service	s - Peachtre	e Corners, (	ЗA				
Total Dissolved Solids	138	mg/L	10.0	10.0	1		03/06/21 13:10		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Service	s - Asheville	)					
Chloride	0.86J	mg/L	1.0	0.60	1		03/13/21 20:14	16887-00-6	
Fluoride	0.085J	mg/L	0.10	0.050	1		03/13/21 20:14	16984-48-8	
Sulfate	10.6	mg/L	1.0	0.50	1		03/13/21 20:14	14808-79-8	



Project: YATES

Pace Project No.: 92525335

Sample: YGWA-3I (030321)	Lab ID: 92525335019 Collected: 03/03/21 17:00 Received: 03/05/21 09:20 Matrix: Water										
Parameters	Results	Units	Report	MDI	DF	Prenared	Analyzed	CAS No	Qual		
Field Data	Analytical	Method:									
	Pace Ana	lytical Services	s - Charlotte	9							
Performed by					1		03/08/21 09:07				
рН	8.23	Std. Units			1		03/08/21 09:07				
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A										
	Pace Ana	lytical Services	s - Peachtre	e Corners, C	ЭA						
Calcium	20.6	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:32	7440-70-2			
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: E	PA 3005A					
	Pace Ana	lytical Services	s - Peachtre	e Corners, C	ЗA						
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 17:18	7440-36-0			
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:18	7440-38-2			
Barium	0.0031J	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:18	7440-39-3			
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:18	7440-41-7			
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:18	7440-42-8			
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:18	7440-43-9			
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:18	7440-47-3			
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:18	7440-48-4			
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:18	7439-92-1			
Lithium	0.017J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:18	7439-93-2			
Molybdenum	0.0036J	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:18	7439-98-7			
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:18	7782-49-2			
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011										
	Pace Ana	lytical Services	s - Peachtre	e Corners, C	ЗA						
Total Dissolved Solids	111	mg/L	10.0	10.0	1		03/06/21 13:10				
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993										
	Pace Ana	lytical Services	s - Asheville	)							
Chloride	0.99J	mg/L	1.0	0.60	1		03/13/21 21:00	16887-00-6			
Fluoride	0.10	mg/L	0.10	0.050	1		03/13/21 21:00	16984-48-8			
Sulfate	9.6	mg/L	1.0	0.50	1		03/13/21 21:00	14808-79-8	M1		



Project: YATES

Pace Project No.: 92525335

Lab ID:	Collecte	ed: 03/03/2	1 16:00	Received: 03/					
Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
Analytical	Method:								
Pace Ana	lytical Services	- Charlotte	9						
CUSTOME R				1		03/08/21 09:07			
8.39	Std. Units			1		03/08/21 09:07			
Analytical Pace Ana	Method: EPA	6010D Pre - Peachtre	paration Me	thod: El GA	PA 3010A				
29.8	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:47	7440-70-2		
Analytical Pace Ana	Method: EPA	6020B Pre - Peachtre	paration Meter e Corners, C	thod: El GA	PA 3005A				
ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 17:24	7440-36-0		
ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:24	7440-38-2		
0.0064	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:24	7440-39-3		
ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:24	7440-41-7		
ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:24	7440-42-8		
ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:24	7440-43-9		
ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:24	7440-47-3		
ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:24	7440-48-4		
ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:24	7439-92-1		
0.024J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:24	7439-93-2		
0.013	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:24	7439-98-7		
ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:24	7782-49-2		
Analytical Method: SM 2450C-2011									
Pace Ana	lytical Services	- Peachtre	e Corners, (	ЗA					
137	mg/L	10.0	10.0	1		03/06/21 13:10			
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Ana	lytical Services	- Asheville	•						
1.1	ma/L	1.0	0.60	1		03/13/21 22:18	16887-00-6		
0.44	mg/L	0.10	0.050	1		03/13/21 22:18	16984-48-8		
7.0	mg/L	1.0	0.50	1		03/13/21 22:18	14808-79-8		
	Lab ID: Results Analytical Pace Ana CUSTOME R 8.39 Analytical Pace Ana 29.8 Analytical Pace Ana ND ND 0.0064 ND ND ND ND 0.0064 ND ND ND ND ND 0.0064 ND ND ND ND ND ND ND ND ND ND	Lab ID:92525335020ResultsUnitsAnalytical Method:Pace Analytical ServicesCUSTOMER8.39Std. UnitsAnalytical Method: EPA 0Pace Analytical Services29.8mg/LAnalytical Method: EPA 0Pace Analytical Services29.8mg/LAnalytical Method: EPA 0Pace Analytical ServicesNDmg/LNDmg/LNDmg/LNDmg/LNDmg/LNDmg/LNDmg/LNDmg/LNDmg/LNDmg/LNDmg/LNDmg/LNDmg/LNDmg/LNDmg/LAnalytical Method: SM 2Pace Analytical Services137mg/LAnalytical Method: EPA 3Pace Analytical Services1.1mg/L0.44mg/L7.0mg/L	Lab ID: 92525335020 Collected Report Limit   Results Units Limit   Analytical Method: Pace Analytical Services - Charlotted CUSTOME R R   8.39 Std. Units Analytical Method: EPA 6010D Prepace Analytical Services - Peachtree 29.8 mg/L 1.0   Analytical Method: EPA 6020B Prepace Analytical Services - Peachtree ND mg/L 0.0030   ND mg/L 0.0030   ND mg/L 0.0050   ND mg/L 0.0050   ND mg/L 0.0050   ND mg/L 0.0050   ND mg/L 0.0050   ND mg/L 0.0050   ND mg/L 0.0050   ND mg/L 0.0050   ND mg/L 0.0050   ND mg/L 0.0050   ND mg/L 0.0050   ND mg/L 0.0050   ND mg/L 0.0050   ND mg/L 0.0050   ND mg/L 0.0050   ND mg/L 0.0050   ND	Lab ID:   92525335020   Collected:   03/03/2     Report   Limit   MDL     Analytical Method:   Pace Analytical Services - Charlotte     CUSTOME   R   8.39   Std. Units     Analytical Method: EPA 6010D   Preparation Me     Pace Analytical Services - Peachtree Corners, O   29.8   mg/L   1.0   0.070     Analytical Method: EPA 6020B   Preparation Me   Pace Analytical Services - Peachtree Corners, O   29.8   mg/L   1.0   0.070     Analytical Method: EPA 6020B   Preparation Me   Pace Analytical Services - Peachtree Corners, O   20.0030   0.00028     ND   mg/L   0.0050   0.00071   Me     Pace Analytical Services - Peachtree Corners, O   ND   mg/L   0.0050   0.00071     ND   mg/L   0.00050   0.00071   ND   mg/L   0.0050   0.00071     ND   mg/L   0.0050   0.00071   ND   mg/L   0.0050   0.00071     ND   mg/L   0.0050   0.00010   0.00052   ND   ND	Lab ID:   92525335020   Collected:   03/03/21 16:00     Report   Imit   MDL   DF     Analytical Method:   Pace Analytical Services - Charlotte   1     CUSTOME   1   R   1     8.39   Std. Units   1   1     Analytical Method: EPA 6010D   Preparation Method: EI   Pace Analytical Services - Peachtree Corners, GA     29.8   mg/L   1.0   0.070   1     Analytical Method: EPA 6020B   Preparation Method: EI   Pace Analytical Services - Peachtree Corners, GA     D   mg/L   0.0030   0.00028   1     ND   mg/L   0.0050   0.00071   1     Analytical Method: EPA 60.005   0.00071   1     ND   mg/L   0.0050   0.00071   1     ND   mg/L   0.0050   0.00071   1     ND   mg/L   0.0050   0.00071   1     ND   mg/L   0.0050   0.00071   1     ND   mg/L   0.00050   0.00012   1 <td>Lab ID:   92525335020   Collected:   03/03/21 16:00   Received:   03/03/21     Results   Units   Limit   MDL   DF   Prepared     Analytical Method:   Pace Analytical Services - Charlotte   1   R   1   R     8.39   Std. Units   1   Analytical Method:   EPA 6010D   Preparation Method:   EPA 3010A     Pace Analytical Services - Peachtree   Corners, GA   29.8   mg/L   1.0   0.070   1   03/08/21 10:47     Analytical Method:   EPA 6020B   Preparation Method:   EPA 3005A   Pace Analytical Services - Peachtree Corners, GA     ND   mg/L   0.0030   0.00028   1   03/08/21 11:57     ND   mg/L   0.0050   0.00071   03/08/21 11:57     ND   mg/L   0.0050   0.00071   03/08/21 11:57     ND   mg/L   0.0050   0.00071   03/08/21 11:57     ND   mg/L   0.0050   0.00012   03/08/21 11:57     ND   mg/L   0.0050   0.00013   03/08/2</td> <td>Lab ID:   92525335020   Collected:   03/03/21 16:00   Received:   03/05/21 09:20   Mail     Results   Units   Limit   MDL   DF   Prepared   Analyzed     Analytical Method:   Pace Analytical Services - Charlotte   03/08/21 09:07   R   03/08/21 09:07     R   1   03/08/21 09:07   R   03/08/21 09:07     Analytical Method:   EPA 6010D   Preparation Method:   EPA 3010A     Pace Analytical Services - Peachtree Corners, GA   29.8   mg/L   1.0   0.070   1   03/08/21 10:47   03/10/21 06:47     Analytical Method:   EPA 6020B   Preparation Method:   EPA 3005A   Pace Analytical Services - Peachtree Corners, GA     ND   mg/L   0.0030   0.00028   1   03/08/21 11:57   03/09/21 17:24     ND   mg/L   0.00050   0.00071   1   03/08/21 11:57   03/09/21 17:24     ND   mg/L   0.00050   0.00071   1   03/08/21 11:57   03/09/21 17:24     ND   mg/L   0.00050   0.00051   0.03/08</td> <td>Lab ID:   92525335020   Collected:   03/03/21 16:00   Received:   03/05/21 09:20   Matrix: Water     Results   Units   Limit   MDL   DF   Prepared   Analyzed   CAS No.     Analytical Method:   Pace Analytical Services - Charlotte   03/08/21 09:07   R   Analytical Services - Charlotte     CUSTOME   1   03/08/21 09:07   R   8.39   Std. Units   1   03/08/21 09:07     Analytical Method:   EPA 6010D   Preparation Method: EPA 3010A   Pace Analytical Services - Peachtree Corners, GA   29.8   mg/L   1.0   0.070   1   03/08/21 10:47   03/10/21 06:47   7440-70-2     Analytical Method:   EPA 6020B   Preparation Method: EPA 3005A   Pace Analytical Services - Peachtree Corners, GA   ND   mg/L   0.0030   0.00028   1   03/08/21 11:57   03/09/21 17:24   7440-38-2     ND   mg/L   0.0050   0.00071   1   03/08/21 11:57   03/09/21 17:24   7440-34-3     ND   mg/L   0.0050   0.00012   1   03/08/21 11:57   03/09/21 17:24</td>	Lab ID:   92525335020   Collected:   03/03/21 16:00   Received:   03/03/21     Results   Units   Limit   MDL   DF   Prepared     Analytical Method:   Pace Analytical Services - Charlotte   1   R   1   R     8.39   Std. Units   1   Analytical Method:   EPA 6010D   Preparation Method:   EPA 3010A     Pace Analytical Services - Peachtree   Corners, GA   29.8   mg/L   1.0   0.070   1   03/08/21 10:47     Analytical Method:   EPA 6020B   Preparation Method:   EPA 3005A   Pace Analytical Services - Peachtree Corners, GA     ND   mg/L   0.0030   0.00028   1   03/08/21 11:57     ND   mg/L   0.0050   0.00071   03/08/21 11:57     ND   mg/L   0.0050   0.00071   03/08/21 11:57     ND   mg/L   0.0050   0.00071   03/08/21 11:57     ND   mg/L   0.0050   0.00012   03/08/21 11:57     ND   mg/L   0.0050   0.00013   03/08/2	Lab ID:   92525335020   Collected:   03/03/21 16:00   Received:   03/05/21 09:20   Mail     Results   Units   Limit   MDL   DF   Prepared   Analyzed     Analytical Method:   Pace Analytical Services - Charlotte   03/08/21 09:07   R   03/08/21 09:07     R   1   03/08/21 09:07   R   03/08/21 09:07     Analytical Method:   EPA 6010D   Preparation Method:   EPA 3010A     Pace Analytical Services - Peachtree Corners, GA   29.8   mg/L   1.0   0.070   1   03/08/21 10:47   03/10/21 06:47     Analytical Method:   EPA 6020B   Preparation Method:   EPA 3005A   Pace Analytical Services - Peachtree Corners, GA     ND   mg/L   0.0030   0.00028   1   03/08/21 11:57   03/09/21 17:24     ND   mg/L   0.00050   0.00071   1   03/08/21 11:57   03/09/21 17:24     ND   mg/L   0.00050   0.00071   1   03/08/21 11:57   03/09/21 17:24     ND   mg/L   0.00050   0.00051   0.03/08	Lab ID:   92525335020   Collected:   03/03/21 16:00   Received:   03/05/21 09:20   Matrix: Water     Results   Units   Limit   MDL   DF   Prepared   Analyzed   CAS No.     Analytical Method:   Pace Analytical Services - Charlotte   03/08/21 09:07   R   Analytical Services - Charlotte     CUSTOME   1   03/08/21 09:07   R   8.39   Std. Units   1   03/08/21 09:07     Analytical Method:   EPA 6010D   Preparation Method: EPA 3010A   Pace Analytical Services - Peachtree Corners, GA   29.8   mg/L   1.0   0.070   1   03/08/21 10:47   03/10/21 06:47   7440-70-2     Analytical Method:   EPA 6020B   Preparation Method: EPA 3005A   Pace Analytical Services - Peachtree Corners, GA   ND   mg/L   0.0030   0.00028   1   03/08/21 11:57   03/09/21 17:24   7440-38-2     ND   mg/L   0.0050   0.00071   1   03/08/21 11:57   03/09/21 17:24   7440-34-3     ND   mg/L   0.0050   0.00012   1   03/08/21 11:57   03/09/21 17:24	


Project: YATES

Pace Project No.: 92525335

Sample: EB-02 (03032021)	Lab ID:	92525335021	Collecte	ed: 03/03/2	1 17:15	Received: 03/	/05/21 09:20 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Pace Ana	Method: EPA 6 lytical Services	010D Pre - Peachtre	paration Me	thod: El GA	PA 3010A			
Calcium	33.3	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:52	7440-70-2	
6020 MET ICPMS	Analytical Pace Ana	Method: EPA 6 lytical Services	020B Pre - Peachtre	paration Met e Corners, (	thod: Ef GA	PA 3005A			
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 17:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:29	7440-38-2	
Barium	0.023	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:29	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:29	7440-43-9	
Chromium	0.00057J	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:29	7439-92-1	
Lithium	0.0016J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/08/21 11:57	03/09/21 17:29	7440-28-0	
7470 Mercury	Analytical Pace Ana	Method: EPA 7	7470A Pre - Peachtre	paration Met e Corners, 0	thod: EF GA	PA 7470A			
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 11:04	7439-97-6	
2540C Total Dissolved Solids	Analytical Pace Ana	Method: SM 24 lytical Services	450C-2011 - Peachtre	e Corners, 0	GA				
Total Dissolved Solids	102	mg/L	10.0	10.0	1		03/06/21 13:10		
300.0 IC Anions 28 Days	Analytical Pace Ana	Method: EPA 3	300.0 Rev 2 - Asheville	2.1 1993					
Chloride	1.6	mg/L	1.0	0.60	1		03/13/21 22:33	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 22:33	16984-48-8	
Sulfate	2.2	ma/L	1.0	0.50	1		03/13/21 22:33	14808-79-8	
					-				



Project: YATES

Pace Project No.: 92525335

Sample: YGWA-4I	Lab ID:	9252533502	2 Collecte	ed: 03/03/21	10:35	5 Received: 03/	05/21 09:20 Ma	atrix: Water	
Deremetere	Deculto	Linito	Report	MDI		Droporod	Applyzod		Qual
Farameters		Units			DF				Quai
Field Data	Analytical	Method:							
	Pace Ana	lytical Service	s - Charlotte	9					
Performed by	CUSTOME				1		03/08/21 09:07		
рН	6.21	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Met	hod: E	PA 3010A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, G	βA				
Calcium	7.7	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:56	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: E	PA 3005A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, G	βA				
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 17:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:35	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:35	7440-41-7	
Boron	0.0056J	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:35	7440-43-9	
Chromium	0.0013J	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:35	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:35	7439-92-1	
Lithium	0.012J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:35	7439-98-7	
Selenium	0.0019J	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:35	7782-49-2	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: E	PA 7470A			
	Pace Ana	lytical Service	s - Peachtre	e Corners, C	<b>A</b>				
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 11:11	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM	2450C-2011						
	Pace Ana	lytical Service	s - Peachtre	e Corners, C	6A				
Total Dissolved Solids	80.0	mg/L	10.0	10.0	1		03/06/21 13:11		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Service	s - Asheville	•					
Chloride	4.1	mg/L	1.0	0.60	1		03/13/21 22:49	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 22:49	16984-48-8	
Sulfate	7.8	ma/L	1.0	0.50	1		03/13/21 22:49	14808-79-8	



Project: YATES

Pace Project No.: 92525335

Sample: YGWA-20S	Lab ID:	92525335023	B Collecte	ed: 03/03/21	09:40	Received: 03/	05/21 09:20 Ma	atrix: Water	
Damaster	Daarika	11-1-	Report	MDI		Davasa	Angland	040 N	0
Parameters		Units			DF	- Prepared	Analyzed		Quai
Field Data	Analytica	I Method:							
	Pace Ana	alytical Service	s - Charlotte	;					
Performed by	CUSTOME				1		03/08/21 09:07		
рН	5.89	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytica	I Method: EPA	6010D Pre	paration Met	hod: E	PA 3010A			
	Pace Ana	alytical Service	s - Peachtre	e Corners, G	βA				
Calcium	2.4	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 07:01	7440-70-2	
6020 MET ICPMS	Analytica	I Method: EPA	6020B Pre	paration Met	hod: El	PA 3005A			
	Pace Ana	alytical Service	s - Peachtre	e Corners, C	SA				
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 17:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:56	7440-38-2	
Barium	0.015	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:56	7440-39-3	
Beryllium	0.000068J	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:56	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:56	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:56	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:56	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:56	7440-48-4	
Lead	0.000045J	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:56	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:56	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:56	7782-49-2	
7470 Mercury	Analytica	I Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A			
	Pace Ana	alytical Service	s - Peachtre	e Corners, G	βA				
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 11:13	7439-97-6	
2540C Total Dissolved Solids	Analytica	I Method: SM 2	2450C-2011						
	Pace Ana	alytical Service	s - Peachtre	e Corners, G	<b>S</b> A				
Total Dissolved Solids	53.0	mg/L	10.0	10.0	1		03/06/21 13:11		
300.0 IC Anions 28 Days	Analytica	I Method: EPA	300.0 Rev 2	2.1 1993					
-	Pace Ana	alytical Service	s - Asheville	•					
Chloride	2.7	mg/L	1.0	0.60	1		03/13/21 23:04	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 23:04	16984-48-8	
Sulfate	ND	ma/L	1.0	0.50	1		03/13/21 23:04	14808-79-8	



Project: YATES

Pace Project No.: 92525335

Sample: YGWA-21I	Lab ID:	92525335024	Collecte	ed: 03/04/21	09:35	5 Received: 03/	05/21 09:20 Ma	atrix: Water	
Paramotoro	Poculto	Linite	Report	МП	DE	Proparad	Applyzod		Qual
		Units			DF		Analyzeu		Quai
Field Data	Analytical	Method:							
	Pace Anal	ytical Services	s - Charlotte	)					
Performed by	CUSTOME				1		03/08/21 09:07		
рН	6.80	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Met	hod: E	PA 3010A			
	Pace Anal	ytical Services	s - Peachtre	e Corners, G	βA				
Calcium	8.7	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 07:06	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: E	PA 3005A			
	Pace Anal	ytical Services	s - Peachtre	e Corners, G	βA				
Antimony	0.0014J	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 18:02	7440-36-0	
Arsenic	0.00078J	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 18:02	7440-38-2	
Barium	0.011	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 18:02	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 18:02	7440-41-7	
Boron	0.0079J	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 18:02	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 18:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 18:02	7440-47-3	
Cobalt	0.0065	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 18:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 18:02	7439-92-1	
Lithium	0.0062J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 18:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 18:02	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 18:02	7782-49-2	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	nod: E	PA 7470A			
	Pace Anal	ytical Services	s - Peachtre	e Corners, G	βA				
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 11:16	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	450C-2011						
	Pace Anal	ytical Services	s - Peachtre	e Corners, G	6A				
Total Dissolved Solids	110	mg/L	10.0	10.0	1		03/06/21 12:32		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Anal	ytical Services	s - Asheville						
Chloride	1.8	mg/L	1.0	0.60	1		03/13/21 23:20	16887-00-6	
Fluoride	0.091J	mg/L	0.10	0.050	1		03/13/21 23:20	16984-48-8	
Sulfate	4.5	mg/L	1.0	0.50	1		03/13/21 23:20	14808-79-8	



Project:	YATES	6											
Pace Project No.:	92525	335											
QC Batch:	6042	23		Anal	ysis Met	hod:	EPA 6010D	)					
QC Batch Method:	EPA	3010A		Anal	ysis Des	cription:	6010D ATL						
				Labo	oratory:		Pace Analy	tical Servio	ces - Peach	ntree Corne	rs, GA		
Associated Lab Sa	mples:	925253350 925253350	01, 9252533500 09	2, 9252533	35003, 9	2525335005	, 925253350	006, 92525	335007, 92	2525335008	3,		
METHOD BLANK:	31831	40			Matrix:	Water							
Associated Lab Sa	mples:	925253350 925253350	01, 9252533500 09	2, 9252533	35003, 9	2525335005	, 925253350	006, 92525	335007, 92	2525335008	3,		
				Bla	nk	Reporting							
Para	meter		Units	Res	ult	Limit	MD		Analyzed	d Qu	ualifiers		
Calcium			mg/L		ND	1	.0	0.070 0	)3/09/21 01	:57			
LABORATORY CO	NTROL	SAMPLE:	3183141										
				Spike		LCS	LCS	% F	Rec				
Para	meter		Units	Conc.	F	Result	% Rec	Lin	nits	Qualifiers			
Calcium			mg/L		1	1.0	10	)3	80-120				
MATRIX SPIKE & M	MATRIX	SPIKE DUPL	.ICATE: 3183	142		318314	3						
				MS	MSD								
Paramete	er	Units	92525335001 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium		mg/L	2.6	1		1 3.6	3.5	105	5 94	4 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	5											
Pace Project No.:	925253	335											
QC Batch:	6048	93		Anal	ysis Meth	od:	EPA 6010	C					
QC Batch Method:	EPA :	3010A		Anal	ysis Desc	cription:	6010D ATI	_					
				Labo	oratory:		Pace Anal	ytical Serv	rices - Peach	tree Corne	rs, GA		
Associated Lab Sar	mples:	92525335 92525335	011, 9252533501: 018, 9252533501	2, 9252533 9, 9252533	35013, 92 35020, 92	2525335014 2525335021	, 92525335 , 92525335	015, 9252 022, 9252	5335016, 929 5335023, 92	525335017 525335024	7, 1		
METHOD BLANK:	318689	98			Matrix:	Water							
Associated Lab Sar	mples:	92525335 92525335	011, 92525335012 018, 9252533501	2, 9252533 9, 9252533	35013, 92 35020, 92	2525335014 2525335021	, 92525335 , 92525335	015, 9252 022, 9252	5335016, 92 5335023, 92	525335017 525335024	7, 1		
				Bla	nk	Reporting							
Para	meter		Units	Res	sult	Limit	M	DL	Analyzed	Qı	ualifiers		
Calcium			mg/L		ND		1.0	0.070	03/10/21 05:	19			
LABORATORY CO	NTROL	SAMPLE:	3186899										
				Spike	L	CS	LCS	%	Rec				
Parar	meter		Units	Conc.	R	esult	% Rec	Lii	mits	Qualifiers			
Calcium			mg/L		1	0.98J		98	80-120				
MATRIX SPIKE & M	MATRIX	SPIKE DUP	PLICATE: 3186	900		318690	)1						
				MS	MSD								
Paramete	er	Units	92525335011 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium		mg/L	4.6	1		1 5.5	5 5.4	9	2 76	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											
Pace Project No.:	925253	335										
OC Batch	60422	24		Analysis	Method:		EPA 6020B					
OC Batch Method:		30054		Analysis I	Descripti	00.	6020 MET					
QC Datch Methou.	LFA	5003A		Analysis	Descripti	011.				a alatina a C		<b>C</b> A
Associated Lab Sar	nples:	9252533500 9252533500	1, 92525335002, 9	9252533500	y. 3, 92525	335005,	925253350	06, 925	25335007	, 925253	35008,	GA
METHOD BLANK:	318314	18		Mat	rix: Wate	er						
Associated Lab Sar	nples:	9252533500 <sup>-</sup> 92525335009	1, 92525335002, 9	9252533500	3, 92525	335005,	925253350	06, 925	25335007	, 9252533	35008,	
				Blank	Re	eporting						
Parar	neter		Units	Result		Limit	MDI	L	Analy	zed	Quali	fiers
Antimony		·	ma/L	N	1D	0.003	0 0.	00028	03/05/21	16:31		
Arsenic			mg/L	Ν	١D	0.005	0 0.	00078	03/05/21	16:31		
Barium			mg/L	Ν	1D	0.005	0 0.	00071	03/05/21	16:31		
Beryllium			mg/L	Ν	١D	0.0005	0.0	00046	03/05/21	16:31		
Boron			mg/L	Ν	١D	0.04	0 0	0.0052	03/05/21	16:31		
Cadmium			mg/L	Ν	1D	0.0005	0 0.	00012	03/05/21	16:31		
Chromium			mg/L	Ν	1D	0.005	0 0.	00055	03/05/21	16:31		
Cobalt			mg/L	Ν	1D	0.005	0 0.	00038	03/05/21	16:31		
Lead			mg/L	Ν	1D	0.001	0 0.0	00036	03/05/21	16:31		
Lithium			mg/L	Ν	1D	0.03	0 0.	00081	03/05/21	16:31		
Molybdenum			mg/L	Ν	1D	0.01	0 0.	00069	03/05/21	16:31		
Selenium			mg/L	Ν	1D	0.005	0 0	0.0016	03/05/21	16:31		
LABORATORY COI	NTROLS	SAMPLE: 3'	183149									
				Spike	LCS		LCS	%	6 Rec			
Parar	neter		Units	Conc.	Resul	t	% Rec	L	imits	Qualit	fiers	
Antimony			mg/L	0.1		0.10	104	4	80-120			
Arsenic			mg/L	0.1	(	0.096	90	6	80-120			
Barium			mg/L	0.1	(	0.096	96	6	80-120			
Beryllium			mg/L	0.1	(	0.095	9	5	80-120			
Boron			mg/L	1		0.91	9	1	80-120			
Cadmium			mg/L	0.1	(	0.096	90	6	80-120			
Chromium			mg/L	0.1	(	0.096	90	6	80-120			
Cobalt			mg/L	0.1	(	0.096	90	6	80-120			
Lead			mg/L	0.1	(	0.097	9	7	80-120			
Lithium			mg/L	0.1	(	0.098	98	8	80-120			

MATRIX SPIKE & MATRIX S	PIKE DUPLI	CATE: 3183	150		3183151							
Parameter	Units	92525335002 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	0.11	0.11	105	106	75-125	1	20	
Arsenic Barium	mg/L mg/L	ND 0.014	0.1	0.1	0.096	0.093	96 96	93 99	75-125 75-125	3 2	20 20	

0.10

0.097

100

97

80-120

80-120

0.1

0.1

mg/L

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.

## **REPORT OF LABORATORY ANALYSIS**

Molybdenum

Selenium



Project:	YATES
Pace Project No.:	92525335

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3183	150		3183151							
Parameter	Units	92525335002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	mg/L	 ND	0.1	0.1	0.095	0.093	95	93	75-125	2	20	
Boron	mg/L	0.0068J	1	1	0.96	0.96	96	96	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.098	99	98	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20	
Lead	mg/L	0.000051J	0.1	0.1	0.098	0.095	98	95	75-125	3	20	
Lithium	mg/L	0.0018J	0.1	0.1	0.10	0.097	98	95	75-125	3	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.094	0.092	94	92	75-125	2	20	

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Project:	YATES											
Pace Project No.:	925253	335										
QC Batch:	6049 <sup>,</sup>	16		Analysi	s Method:	E	EPA 602	:0B				
QC Batch Method:	EPA 3	3005A		Analysi	s Descriptio	on: 6	6020 ME	ΞT				
				Labora	tory:	F	Pace An	alytical Se	rvices - Pe	achtree Cor	ners, GA	
Associated Lab Sar	nples:	925253350 925253350	011, 92525335012, 018, 92525335019,	925253350 925253350	)13, 925253 )20, 925253	35014, 9 35021, 9	9252533 9252533	35015, 925 35022, 925	25335016, 25335023,	925253350 925253350	17, )24	
METHOD BLANK:	318712	28		М	latrix: Wate	r						
Associated Lab Sar	mples:	925253350 925253350	011, 92525335012, 018, 92525335019,	925253350 925253350	)13, 925253 )20, 925253	35014, 9 35021, 9	9252533 9252533	35015, 925 35022, 925	25335016, 25335023,	925253350 925253350	17, )24	
				Blank	Rep	porting						
Parar	neter		Units	Result	L	_imit	I	MDL	Analyz	zed	Qualifiers	
Antimony			mg/L		ND	0.0030	5	0.00028	03/09/21	15:37		
Arsenic			mg/L		ND	0.0050	C	0.00078	03/09/21	15:37		
Barium			mg/L		ND	0.0050	C	0.00071	03/09/21	15:37		
Beryllium			mg/L		ND	0.00050	C	0.000046	03/09/21	15:37		
Boron			mg/L		ND	0.040	C	0.0052	03/09/21	15:37		
Cadmium			mg/L		ND	0.00050	C	0.00012	03/09/21	15:37		
Chromium			mg/L		ND	0.0050	C	0.00055	03/09/21	15:37		
Cobalt			mg/L		ND	0.0050	C	0.00038	03/09/21	15:37		
Lead			mg/L		ND	0.0010	C	0.000036	03/09/21	15:37		
Lithium			mg/L		ND	0.030	C	0.00081	03/09/21	15:37		
Molybdenum			mg/L		ND	0.010	C	0.00069	03/09/21	15:37		
Selenium			mg/L		ND	0.0050	C	0.0016	03/09/21	15:37		
Thallium			mg/L		ND	0.0010	D	0.00014	03/09/21	15:37		
LABORATORY CO	NTROLS	SAMPLE:	3187129									
				Spike	LCS		LCS	0	% Rec			
Parar	neter		Units	Conc.	Result		% Rec	·	_imits	Qualifier	s	
Antimony			ma/l	0 1	0	007		07	80 120			

Parameter	Units	Conc.	Result	% Rec	Limits	Quaimers
Antimony	mg/L	0.1	0.097	97	80-120	
Arsenic	mg/L	0.1	0.093	93	80-120	
Barium	mg/L	0.1	0.094	94	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.094	94	80-120	
Selenium	mg/L	0.1	0.091	91	80-120	
Thallium	mg/L	0.1	0.092	92	80-120	

MATRIX SPIKE & MATRIX SPI	KE DUPL	ICATE: 3187	130		3187131							
			MS	MSD								
		92525335012	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	0.094	0.096	94	96	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.

# **REPORT OF LABORATORY ANALYSIS**



Project:	YATES
Pace Project No.:	92525335

ATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3187130 3187131													
			MS	MSD									
		92525335012	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	0.092	0.092	92	92	75-125	0	20		
Barium	mg/L	0.017	0.1	0.1	0.11	0.11	90	94	75-125	3	20		
Beryllium	mg/L	0.000099J	0.1	0.1	0.093	0.095	93	95	75-125	3	20		
Boron	mg/L	0.010J	1	1	0.98	0.99	97	98	75-125	2	20		
Cadmium	mg/L	ND	0.1	0.1	0.095	0.096	95	96	75-125	1	20		
Chromium	mg/L	0.00082J	0.1	0.1	0.098	0.098	97	97	75-125	0	20		
Cobalt	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.092	0.091	92	91	75-125	1	20		
Lithium	mg/L	ND	0.1	0.1	0.098	0.10	97	100	75-125	3	20		
Molybdenum	mg/L	ND	0.1	0.1	0.092	0.091	92	91	75-125	0	20		
Selenium	mg/L	ND	0.1	0.1	0.089	0.087	88	86	75-125	2	20		
Thallium	mg/L	ND	0.1	0.1	0.089	0.090	89	90	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											
Pace Project No.:	92525335											
QC Batch:	604308		Analy	sis Metho	d:	EPA 7470A						
QC Batch Method:	EPA 7470A		Analy	sis Descri	ption:	7470 Mercu	ıry					
			Labor	atory:		Pace Analy	tical Servio	ces - Peach	tree Corne	ers, GA		
Associated Lab Sar	nples: 92525335	6001, 9252533500	2, 9252533	5003, 925	25335007,	, 925253350	08, 92525	335009				
METHOD BLANK:	3183676			Matrix: W	/ater							
Associated Lab Sar	nples: 92525335	001, 9252533500	2, 9252533	5003, 925	25335007,	, 925253350	08, 92525	335009				
			Blan	k	Reporting							
Parar	neter	Units	Resu	ılt	Limit	MD	L	Analyzed	Q	ualifiers		
Mercury		mg/L		ND	0.0002	20 0.0	00078 0	3/05/21 10	:07			
LABORATORY CO	NTROL SAMPLE:	3183677										
			Spike	LC	S	LCS	% F	Rec				
Parar	neter	Units	Conc.	Res	sult	% Rec	Lim	nits	Qualifiers			
Mercury		mg/L	0.002	5	0.0023	9	2	80-120				
MATRIX SPIKE & M	ATRIX SPIKE DUI	PLICATE: 3183	678		318367	9						
		0050400040	MS	MSD	MO	MOD	MC	MCD			Mari	
		W/5/463/113	SDIKE	Spike	IVIS	IVISD	IVIS	10120	% KeC		wax	
Paramete	r Unit:	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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	6											
Pace Project No.:	92525	335											
QC Batch:	6049	28		Analy	sis Metho	d:	EPA 7470A						
QC Batch Method:	EPA	7470A		Analy	sis Descri	iption:	7470 Mercu	ıry					
				Labo	ratory:		Pace Analy	tical Servic	es - Peacht	tree Corne	rs, GA		
Associated Lab Sa	mples:	925253350 925253350	011, 92525335012 023, 9252533502	2, 9252533 4	5013, 925	25335014,	925253350	15, 925253	35021, 928	525335022	· ,		
METHOD BLANK:	31872	60			Matrix: W	/ater							
Associated Lab Sa	mples:	925253350 925253350	011, 92525335012 023, 9252533502	2, 9252533 4	5013, 925	25335014,	925253350	15, 925253	35021, 925	525335022	,		
				Blar	nk	Reporting							
Para	neter		Units	Res	ult	Limit	MD	L	Analyzed	Qı	ualifiers		
Mercury			mg/L		ND	0.0002	20 0.0	00078 03	3/09/21 10:	42			
LABORATORY CO	NTROL	SAMPLE:	3187261										
				Spike	LC	S	LCS	% R	ес				
Para	neter		Units	Conc.	Re	sult	% Rec	Limi	ts (	Qualifiers			
Mercury			mg/L	0.002	5	0.0024	9	4 8	30-120				
MATRIX SPIKE & M	IATRIX	SPIKE DUP	LICATE: 31872	262		318726	3						
				MS	MSD								
Demonstra		11-21-	92525375013	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	0
Paramete	r	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	LIMITS		<u></u>	Qual
Mercury		mg/L	ND	0.0025	0.0025	0.0023	0.0019	93	78	75-125	18	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							
Pace Project No.:	92525335							
QC Batch:	604206		Analysis M	ethod:	SM 2450C-20	)11		
QC Batch Method:	SM 2450C-2011		Analysis De	escription:	2540C Total E	Dissolved Solids	5	
			Laboratory	:	Pace Analytic	al Services - Pe	eachtree	e Corners, GA
Associated Lab Sar	mples: 92525335	006						
METHOD BLANK:	3183000		Matrix	: Water				
Associated Lab Sar	mples: 92525335	006						
			Blank	Reporting				
Parar	neter	Units	Result	Limit	MDL	Anal	yzed	Qualifiers
Total Dissolved Soli	ids	mg/L	ND	) 10	.0	10.0 03/04/2	1 10:17	
LABORATORY CO	NTROL SAMPLE:	3183001						
			Spike	LCS	LCS	% Rec		
Parar	neter	Units	Conc.	Result	% Rec	Limits	Qua	alifiers
Total Dissolved Soli	ids	mg/L	400	387	97	90-111		
SAMPLE DUPLICA	TE: 3183002							
			92525485001	Dup		Max		
Parar	neter	Units	Result	Result	RPD		)	Qualifiers
Total Dissolved Soli	ids	mg/L	84.0	) 85	.0	1	10	
SAMPLE DUPLICA	TE: 3183003							
			92525335006	Dup		Max		
Parar	neter	Units	Result	Result	RPD	RPD	)	Qualifiers
Total Dissolved Soli	ids	mg/L	23.0	) 41	.0	56	10 D	06

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							
Pace Project No.:	92525335							
QC Batch:	604300		Analysis Me	ethod:	SM 2450C-20	)11		
QC Batch Method:	SM 2450C-2011		Analysis De	scription:	2540C Total E	Dissolved Solids		
			Laboratory:		Pace Analytic	al Services - Pe	achtree	Corners, GA
Associated Lab Sa	mples: 92525335	5001, 9252533500	02, 92525335003,	92525335005				
METHOD BLANK:	3183609		Matrix	: Water				
Associated Lab Sa	mples: 92525335	001, 9252533500	2, 92525335003,	92525335005				
			Blank	Reporting				
Para	meter	Units	Result	Limit	MDL	Analy	zed	Qualifiers
Total Dissolved Sol	ids	mg/L	ND	10	.0	10.0 03/04/21	14:27	
LABORATORY CO	NTROL SAMPLE:	3183610						
			Spike	LCS	LCS	% Rec		
Para	meter	Units	Conc	Result	% Rec	Limits	Qua	lifiers
Total Dissolved Sol	ids	mg/L	400	394	98	90-111		
SAMPLE DUPLICA	ATE: 3183611							
			92525102001	Dup		Max		
Para	meter	Units	Result	Result	RPD	RPD		Qualifiers
Total Dissolved Sol	ids	mg/L	175	17	71	2	10	
SAMPLE DUPLICA	TE: 3183612							
			92524831010	Dup		Max		
Para	meter	Units	Result	Result	RPD	RPD		Qualifiers
Total Dissolved Sol	ids	mg/L	513	52	20	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:	YATE	S							
Pace Project No.:	92525	5335							
QC Batch:	604	527		Analysis M	ethod:	SM 2450C-20	11		
QC Batch Method:	SM :	2450C-2011	l	Analysis De	escription:	2540C Total D	issolved Solids		
				Laboratory	:	Pace Analytica	al Services - Pe	achtree	e Corners, GA
Associated Lab Sa	mples:	92525335	5007, 925253350	08, 92525335009					
METHOD BLANK:	31846	654		Matrix	k: Water				
Associated Lab Sa	mples:	92525335	5007, 925253350	08, 92525335009					
				Blank	Reporting				
Para	meter		Units	Result	Limit	MDL	Analy	zed	Qualifiers
Total Dissolved Sol	lids		mg/L	ND	0 10	0.0	10.0 03/05/21	11:03	
LABORATORY CO	NTROL	SAMPLE:	3184655						
				Spike	LCS	LCS	% Rec		
Para	meter		Units	Conc.	Result	% Rec	Limits	Qua	alifiers
Total Dissolved Sol	lids		mg/L	400	375	94	90-111		
SAMPLE DUPLICA	۹ΤΕ: 3	184656							
_				92525799001	Dup		Max		
Para	meter		Units	Result	Result	RPD	RPD		Qualifiers
Total Dissolved Sol	lids		mg/L	2090	) 196	60	6	10	
SAMPLE DUPLICA	λTE: 3	184657							
_				92525341004	Dup		Max		0
Para	meter		Units	Result	Result	RPD	RPD		Qualifiers
Total Dissolved Sol	lids		mg/L	167	7 15	52	9	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								
Pace Project No.:	92525335								
QC Batch:	604626		Analysis Me	ethod:	SM 2450C-20	011			
QC Batch Method:	SM 2450C-2011		Analysis De	escription:	2540C Total I	Dissol	ved Solids		
			Laboratory:		Pace Analytic	cal Se	rvices - Pea	achtree	Corners, GA
Associated Lab Sam	nples: 92525335	5012, 92525335013							
METHOD BLANK:	3185317		Matrix	c: Water					
Associated Lab Sam	nples: 92525335	5012, 92525335013							
			Blank	Reporting					
Param	neter	Units	Result	Limit	MDL		Analyz	zed	Qualifiers
Total Dissolved Solid	ds	mg/L	ND	0 10	0.0	10.0	03/05/21	15:33	
		-							
LABORATORY CON	ITROL SAMPLE:	3185318							
			Spike	LCS	LCS	%	6 Rec		
Param	neter	Units	Conc.	Result	% Rec	L	_imits	Qua	lifiers
Total Dissolved Solid	ds	mg/L	400	390	98		90-111		
SAMPLE DUPLICAT	TE: 3185319								
			92525822001	Dup			Max		
Param	neter	Units	Result	Result	RPD		RPD		Qualifiers
Total Dissolved Solid	ds	mg/L	274	2	90	6		10	
SAMPLE DUPLICAT	TE: 3185328								
			92524831016	Dup			Max		
Param	neter	Units	Result	Result	RPD		RPD		Qualifiers
Total Dissolved Solid	ds	mg/L	325	5 3	54	9		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	i								
Pace Project No.:	925253	335								
QC Batch:	6047	64		Analysis Mo	ethod:	SM 24	50C-2011			
QC Batch Method:	SM 2	450C-2011		Analysis De	escription:	2540C	Total Dis	solved Solids		
				Laboratory		Pace /	Analytical	Services - Pea	achtree	e Corners, GA
Associated Lab Sa	mples:	92525335 92525335	014, 9252533501 022, 9252533502	6, 92525335017, 3	92525335018	8, 92525	335019, 9	92525335020,	92525	5335021,
METHOD BLANK:	318629	95		Matrix	: Water					
Associated Lab Sar	mples:	92525335 92525335	014, 9252533501 022, 9252533502	6, 92525335017, 3	92525335018	8, 92525	335019, 9	92525335020,	92525	5335021,
				Blank	Reporting	l				
Para	neter		Units	Result	Limit		MDL	Analyz	zed	Qualifiers
Total Dissolved Sol	ids		mg/L	ND	1	0.0	10	.0 03/06/21	13:06	
LABORATORY CO	NTROL	SAMPLE:	3186296	0	1.00		2	0/ D		
Para	neter		Units	Spike Conc.	Result	8 R	s ec	% Rec Limits	Qua	alifiers
Total Dissolved Sol	ids		mg/L	400	368		92	90-111		
SAMPLE DUPLICA	TE: 31	86298								
				92525335021	Dup			Max		
Para	neter		Units	Result	Result		RPD	RPD		Qualifiers
Total Dissolved Sol	ids		mg/L	102	2 1	01		1	10	
SAMPLE DUPLICA	TE: 31	86336			_					
-			11-26-	92525919008	Dup			Max		Our l'ff and
Para	neter		Units	Result	Result		RPD	КРО		Qualifiers
Total Dissolved Sol	ids		mg/L	267	, 2	283		6	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:	YATE	S							
Pace Project No.:	92525	5335							
QC Batch:	6047	765		Analysis Me	ethod:	SM 2450C-2	2011		
QC Batch Method:	SM :	2450C-2011		Analysis De	escription:	2540C Total	Dissolved Solid	ls	
				Laboratory		Pace Analyt	ical Services - F	Peachtree	e Corners, GA
Associated Lab Sa	mples:	92525335	5011, 925253350 <sup>-</sup>	15, 92525335024					
METHOD BLANK:	31863	310		Matrix	k: Water				
Associated Lab Sa	mples:	92525335	5011, 925253350 <sup>°</sup>	15, 92525335024					
				Blank	Reporting				
Para	meter		Units	Result	Limit	MDI	_ Ana	lyzed	Qualifiers
Total Dissolved Sol	lids		mg/L		) 10	0.0	10.0 03/06/2	21 12:29	
LABORATORY CO	NTROL	SAMPLE:	3186311						
				Spike	LCS	LCS	% Rec		
Para	meter		Units	Conc.	Result	% Rec	Limits	Qua	alifiers
Total Dissolved Sol	lids		mg/L	400	371	93	3 90-11	1	
SAMPLE DUPLICA	λTE: 3	186312			_				
Dara	motor		Linito	92525346009	Dup	חחח	Ma	x	Qualifiara
Pala	meter			Result			· · · · · · · · · · · · · · · · · · ·		Quaimers
Total Dissolved Sol	lids		mg/L	217	2 2	20	1	10	
SAMPLE DUPLICA	ATE: 3	186313							
				92525824003	Dup		Ма	x	
Para	meter		Units	Result	Result	RPD	) RP	D	Qualifiers
Total Dissolved Sol	lids		mg/L	45.0	) <u> </u>	1.0	30	10 D	06

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	5												
Pace Project	t No.:	92525	335												
QC Batch:		6045	44		Anal	ysis Metho	od:	EPA 300.0	Rev 2.1	1993					
QC Batch M	ethod:	EPA	300.0 Rev 2.	1 1993	Anal	ysis Desci	iption:	300.0 IC Ar	nions						
					Labo	oratory:		Pace Analy	tical Ser	vices - Ash	eville				
Associated L	_ab Sarr	nples:	925253350 925253350	001, 9252533500 009	02, 9252533	35003, 92	525335005,	925253350	06, 9252	25335007,	925253	335008	,		
METHOD BI	LANK:	31847	10			Matrix: V	Vater								
Associated L	_ab San	nples:	925253350 925253350	001, 9252533500 009	)2, 9252533	35003, 92	525335005,	925253350	06, 9252	25335007,	925253	335008	,		
	_				Bla	nk	Reporting					~			
	Param	neter		Units	Res	ult	Limit	MD	L	Analyz	ed	Qu	alifiers		
Chloride				mg/L		ND	1.	0	0.60	03/06/21	20:08				
Fluoride				mg/L			0.1	0	0.050	03/06/21	20:08				
Sullate				ing/∟		ND	1.	0	0.50	03/00/21	20.00				
LABORATO	RY CON	NTROL	SAMPLE:	3184711											
	Param	neter		Units	Spike Conc.	Li Re	CS esult	LCS % Rec	% L	Rec imits	Qua	lifiers			
Chloride				mg/L	5	50	48.3	9	7	90-110					
Fluoride				mg/L	2	.5	2.5	9	8	90-110					
Sulfate				mg/L	5	50	48.7	9	7	90-110					
MATRIX SPI	IKE & M	IATRIX	SPIKE DUPI	_ICATE: 3184	712		3184713	3							
					MS	MSD									
_				92525335001	Spike	Spike	MS	MSD	MS	MSD	%	Rec		Max	- ·
Pa	rameter		Units	Result	Conc.	Conc.	Result	Result	% Rec	> % Re	C LI	imits	RPD	RPD	Qual
Chloride			mg/L	4.3	50	50	53.4	53.9	9	98	99 9	90-110	1	10	
Fluoride			mg/L	ND	2.5	2.5	2.6	2.7	10	04 1	05 9	90-110	1	10	
Sullate			mg/∟	2.3	50	50	01.0	52.4	:	99 1	00 8	90-110	I	10	
MATRIX SPI	IKE & M	IATRIX	SPIKE DUPI	_ICATE: 3184	714		318471	5							
					MS	MSD						_			
D-	rometer		- المال	92525341001	Spike	Spike	MS	MSD Boguit	MS	MSD	%	Rec	חחם	Max	Qual
Ра	rameter			Kesuit	Conc.	Conc.	Result	Result	% KêC	; % Re 	C LI	Innits	KPD	KPD	Quai
Chloride			mg/L	5.5	50	50	54.6	54.8	9	98	98 9	90-110	0	10	
Fluoride			mg/L	0.18	2.5	2.5	3.3	3.3	12	∠4 1 ¤1	25 9	JU-110	1	10	I/I1 M1
Sullate			mg/L	94.2	50	50	135	130	(	וט	02 8	-11U	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.

#### **REPORT OF LABORATORY ANALYSIS**



Project:	YATES	6												
Pace Project No.:	92525	335												
QC Batch:	6064	55		Anal	ysis Metho	d:	EPA 300.0 I	Rev 2.1 1	993					
QC Batch Method:	EPA	300.0 Rev 2	.1 1993	Anal	ysis Descri	ption:	300.0 IC An	ions						
				Labo	oratory:		Pace Analy	tical Serv	ices - Ash	eville				
Associated Lab Sar	mples:	925253350 925253350	011, 9252533501 018	2, 9252533	35013, 925	25335014,	925253350	15, 9252	5335016,	925253	35017	, ,		
METHOD BLANK:	31951	34			Matrix: W	ater								
Associated Lab Sar	mples:	92525335 92525335	011, 9252533501 018	2, 9252533	35013, 925	25335014,	925253350	15, 9252	5335016,	925253	35017	,		
				Bla	nk	Reporting								
Para	neter		Units	Res	sult	Limit	MD	L	Analyz	ed	Qu	alifiers		
Chloride			mg/L		ND	1.	0	0.60	03/13/21	12:45				
Fluoride			mg/L		ND	0.1	0	0.050	03/13/21	12:45				
Sulfate			mg/L		ND	1.	0	0.50	03/13/21	12:45				
LABORATORY CO	NTROL	SAMPLE:	3195135											
Para	neter		Units	Spike Conc.	LC Re:	S Sult	LCS % Rec	% Lir	Rec nits	Quali	ifiers			
Chloride			mg/L		50	49.8	10	0	90-110			_		
Fluoride			mg/L	2	.5	2.6	10	3	90-110					
Sulfate			mg/L	Ę	50	52.8	10	6	90-110					
MATRIX SPIKE & M	IATRIX	SPIKE DUP	LICATE: 3195	5136		3195137	,							
				MS	MSD									
_			92525912007	Spike	Spike	MS	MSD	MS	MSD	%	Rec		Max	- ·
Paramete	r	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Re	c Lir 	nits	RPD	RPD	Qual
Chloride		mg/L	ND	50	50	50.5	51.0	10	1 1	02 9	0-110	1	10	
Fluoride		mg/L	ND	2.5	2.5	2.5	2.6	10	2 1	03 9	0-110	1	10	
Sulfate		mg/L	ND	50	50	53.6	54.2	10	7 1	08 9	0-110	1	10	
MATRIX SPIKE & M	IATRIX	SPIKE DUP	LICATE: 3195	5138		3195139	)							
				MS	MSD									
_			92525919009	Spike	Spike	MS	MSD	MS	MSD	%	Rec		Max	<b>.</b> .
Paramete	r	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Re	c Lir	nits	RPD	RPD	Qual
Chloride		mg/L	1.6	50	50	54.1	53.7	10	51	04 9	0-110	1	10	
Fluoride		mg/L	0.12	2.5	2.5	2.8	2.8	10	61	05 9	0-110	1	10	
Sulfate		mg/L	39.2	50	50	95.4	95.1	11.	2 1	12 9	0-110	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.

#### **REPORT OF LABORATORY ANALYSIS**



Project: YATES Pace Project No.: 92525335													
Pace Project No.:	92525	335											
QC Batch:	6064	56		Analy	sis Metho	d:	EPA 300.0 I	Rev 2.1 19	93				
QC Batch Method:	EPA	300.0 Rev 2.	1 1993	Analy	/sis Descri	ption:	300.0 IC An	ions					
				Labo	ratory:		Pace Analy	tical Servio	ces - Ashevil	le			
Associated Lab Sa	mples:	925253350	19, 9252533502	20, 9252533	85021, 925	25335022,	925253350	23, 92525	335024				
METHOD BLANK:	31951	40			Matrix: W	ater							
Associated Lab Sa	mples:	925253350	19, 9252533502	20, 9252533	5021, 925	25335022,	925253350	23, 92525	335024				
				Blar	nk	Reporting							
Para	meter		Units	Res	ult	Limit	MD	L	Analyzed	Qu	alifiers		
Chloride			mg/L		ND	1.	0	0.60 0	3/13/21 20:2	29			
Fluoride			mg/L		ND	0.1	0	0.050 0	3/13/21 20:2	29			
Sulfate			mg/L		ND	1.	0	0.50 0	)3/13/21 20:2	29			
LABORATORY CC	NTROL	SAMPLE:	3195141										
5				Spike	LC	S	LCS	% F	Rec				
Para	meter		Units	Conc.	Res	Sult	% Rec	Lim	nits C	Jualifiers	_		
Chloride			mg/L	5	50	48.5	9	7	90-110				
Fluoride			mg/L	2.	.5	2.5	10	0	90-110				
Suifate			mg/L	5	0	51.4	10	3	90-110				
MATRIX SPIKE &	MATRIX	SPIKE DUPI	_ICATE: 3195	5142		3195143	3						
				MS	MSD								
			92525335019	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	<b>•</b> •
Paramete	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride		mg/L	0.99J	50	50	52.8	52.3	104	103	90-110	1	10	
Fluoride		mg/L	0.10	2.5	2.5	2.7	2.7	106	5 104	90-110	2	10	
Suifate		mg/L	9.6	50	50	65.5	64.7	112	110	90-110	1	10	MI
MATRIX SPIKE &	MATRIX	SPIKE DUPI	_ICATE: 3195	5144		3195145	;						
				MS	MSD								
_			92525346005	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	<b>.</b> .
Paramete	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride		mg/L	16.6	50	50	66.4	68.7	100	104	90-110	3	10	
Fluoride		mg/L	ND	2.5	2.5	2.5	2.6	98	103	90-110	5	10	
Sulfate		mg/L	88.8	50	50	115	117	53	56	90-110	1	10	M1

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# **REPORT OF LABORATORY ANALYSIS**



#### QUALIFIERS

Project: YATES Pace Project No.: 92525335

#### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

**RPD** - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

#### ANALYTE QUALIFIERS

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: YATES Pace Project No.: 92525335

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525335001	YGWA-5I				
92525335002	YGWA-5D				
92525335005	YGWA-14S				
92525335006	YGWA-30I				
92525335011	YGWA-40				
92525335012	YGWA-17S				
92525335013	YGWA-18S				
92525335014	YGWA-18I				
92525335015	YGWA-39				
92525335016	YGWA-1D (030321)				
92525335017	YGWA-11 (030321)				
92525335018	YGWA-2I (030321)				
92525335019	YGWA-3I (030321)				
92525335020	YGWA-3D (030321)				
92525335022	YGWA-4I				
92525335023	YGWA-20S				
92525335024	YGWA-21I				
92525335001	YGWA-5I	EPA 3010A	604223	EPA 6010D	604309
92525335002	YGWA-5D	EPA 3010A	604223	EPA 6010D	604309
92525335003	DUP-1	EPA 3010A	604223	EPA 6010D	604309
92525335005	YGWA-14S	EPA 3010A	604223	EPA 6010D	604309
92525335006	YGWA-30I	EPA 3010A	604223	EPA 6010D	604309
92525335007	FB-01	EPA 3010A	604223	EPA 6010D	604309
92525335008	DUP-01	EPA 3010A	604223	EPA 6010D	604309
92525335009	FB-01	EPA 3010A	604223	EPA 6010D	604309
92525335011	YGWA-40	EPA 3010A	604893	EPA 6010D	604969
92525335012	YGWA-17S	EPA 3010A	604893	EPA 6010D	604969
92525335013	YGWA-18S	EPA 3010A	604893	EPA 6010D	604969
92525335014	YGWA-18I	EPA 3010A	604893	EPA 6010D	604969
92525335015	YGWA-39	EPA 3010A	604893	EPA 6010D	604969
92525335016	YGWA-1D (030321)	EPA 3010A	604893	EPA 6010D	604969
92525335017	YGWA-1I (030321)	EPA 3010A	604893	EPA 6010D	604969
92525335018	YGWA-2I (030321)	EPA 3010A	604893	EPA 6010D	604969
92525335019	YGWA-3I (030321)	EPA 3010A	604893	EPA 6010D	604969
92525335020	YGWA-3D (030321)	EPA 3010A	604893	EPA 6010D	604969
92525335021	EB-02 (03032021)	EPA 3010A	604893	EPA 6010D	604969
92525335022	YGWA-4I	EPA 3010A	604893	EPA 6010D	604969
92525335023	YGWA-20S	EPA 3010A	604893	EPA 6010D	604969
92525335024	YGWA-21I	EPA 3010A	604893	EPA 6010D	604969
92525335001	YGWA-5I	EPA 3005A	604224	EPA 6020B	604329
92525335002	YGWA-5D	EPA 3005A	604224	EPA 6020B	604329
92525335003	DUP-1	EPA 3005A	604224	EPA 6020B	604329
92525335005	YGWA-14S	EPA 3005A	604224	EPA 6020B	604329
92525335006	YGWA-30I	EPA 3005A	604224	EPA 6020B	604329
92525335007	FB-01	EPA 3005A	604224	EPA 6020B	604329
92525335008	DUP-01	EPA 3005A	604224	EPA 6020B	604329
92525335009	FB-01	EPA 3005A	604224	EPA 6020B	604329



## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	YATES
Pace Project No.:	92525335

					Analytical
Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Batch
92525335011	YGWA-40	EPA 3005A	604916	EPA 6020B	605023
92525335012	YGWA-17S	EPA 3005A	604916	EPA 6020B	605023
92525335013	YGWA-18S	EPA 3005A	604916	EPA 6020B	605023
92525335014	YGWA-18I	EPA 3005A	604916	EPA 6020B	605023
92525335015	YGWA-39	EPA 3005A	604916	EPA 6020B	605023
92525335016	YGWA-1D (030321)	EPA 3005A	604916	EPA 6020B	605023
92525335017	YGWA-1I (030321)	EPA 3005A	604916	EPA 6020B	605023
92525335018	YGWA-2I (030321)	EPA 3005A	604916	EPA 6020B	605023
92525335019	YGWA-3I (030321)	EPA 3005A	604916	EPA 6020B	605023
92525335020	YGWA-3D (030321)	EPA 3005A	604916	EPA 6020B	605023
92525335021	EB-02 (03032021)	EPA 3005A	604916	EPA 6020B	605023
92525335022	YGWA-4I	EPA 3005A	604916	EPA 6020B	605023
92525335023	YGWA-20S	EPA 3005A	604916	EPA 6020B	605023
92525335024	YGWA-21I	EPA 3005A	604916	EPA 6020B	605023
92525335001	YGWA-5I	EPA 7470A	604308	EPA 7470A	604504
92525335002	YGWA-5D	EPA 7470A	604308	EPA 7470A	604504
92525335003	DUP-1	EPA 7470A	604308	EPA 7470A	604504
92525335007	FB-01	EPA 7470A	604308	EPA 7470A	604504
92525335008	DUP-01	EPA 7470A	604308	EPA 7470A	604504
92525335009	FB-01	EPA 7470A	604308	EPA 7470A	604504
92525335011	YGWA-40	EPA 7470A	604928	EPA 7470A	605029
92525335012	YGWA-17S	EPA 7470A	604928	EPA 7470A	605029
92525335013	YGWA-18S	EPA 7470A	604928	EPA 7470A	605029
92525335014	YGWA-18I	EPA 7470A	604928	EPA 7470A	605029
92525335015	YGWA-39	EPA 7470A	604928	EPA 7470A	605029
92525335021	EB-02 (03032021)	EPA 7470A	604928	EPA 7470A	605029
92525335022	YGWA-4I	EPA 7470A	604928	EPA 7470A	605029
92525335023	YGWA-20S	EPA 7470A	604928	EPA 7470A	605029
92525335024	YGWA-21I	EPA 7470A	604928	EPA 7470A	605029
92525335001	YGWA-5I	SM 2450C-2011	604300		
92525335002	YGWA-5D	SM 2450C-2011	604300		
92525335003	DUP-1	SM 2450C-2011	604300		
92525335005	YGWA-14S	SM 2450C-2011	604300		
92525335006	YGWA-30I	SM 2450C-2011	604206		
92525335007	FB-01	SM 2450C-2011	604527		
92525335008	DUP-01	SM 2450C-2011	604527		
92525335009	FB-01	SM 2450C-2011	604527		
92525335011	YGWA-40	SM 2450C-2011	604765		
92525335012	YGWA-17S	SM 2450C-2011	604626		
92525335013	YGWA-18S	SM 2450C-2011	604626		
92525335014	YGWA-18I	SM 2450C-2011	604764		
92525335015	YGWA-39	SM 2450C-2011	604765		
92525335016	YGWA-1D (030321)	SM 2450C-2011	604764		
92525335017	YGWA-1I (030321)	SM 2450C-2011	604764		
	· ·				



## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	YATES
Pace Project No.:	92525335

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525335018	YGWA-2I (030321)	SM 2450C-2011	604764		
92525335019	YGWA-3I (030321)	SM 2450C-2011	604764		
92525335020	YGWA-3D (030321)	SM 2450C-2011	604764		
92525335021	EB-02 (03032021)	SM 2450C-2011	604764		
92525335022	YGWA-4I	SM 2450C-2011	604764		
92525335023	YGWA-20S	SM 2450C-2011	604764		
92525335024	YGWA-21I	SM 2450C-2011	604765		
92525335001	YGWA-5I	EPA 300.0 Rev 2.1 1993	604544		
92525335002	YGWA-5D	EPA 300.0 Rev 2.1 1993	604544		
92525335003	DUP-1	EPA 300.0 Rev 2.1 1993	604544		
92525335005	YGWA-14S	EPA 300.0 Rev 2.1 1993	604544		
92525335006	YGWA-30I	EPA 300.0 Rev 2.1 1993	604544		
92525335007	FB-01	EPA 300.0 Rev 2.1 1993	604544		
92525335008	DUP-01	EPA 300.0 Rev 2.1 1993	604544		
92525335009	FB-01	EPA 300.0 Rev 2.1 1993	604544		
92525335011	YGWA-40	EPA 300.0 Rev 2.1 1993	606455		
92525335012	YGWA-17S	EPA 300.0 Rev 2.1 1993	606455		
92525335013	YGWA-18S	EPA 300.0 Rev 2.1 1993	606455		
92525335014	YGWA-18I	EPA 300.0 Rev 2.1 1993	606455		
92525335015	YGWA-39	EPA 300.0 Rev 2.1 1993	606455		
92525335016	YGWA-1D (030321)	EPA 300.0 Rev 2.1 1993	606455		
92525335017	YGWA-1I (030321)	EPA 300.0 Rev 2.1 1993	606455		
92525335018	YGWA-2I (030321)	EPA 300.0 Rev 2.1 1993	606455		
92525335019	YGWA-3I (030321)	EPA 300.0 Rev 2.1 1993	606456		
92525335020	YGWA-3D (030321)	EPA 300.0 Rev 2.1 1993	606456		
92525335021	EB-02 (03032021)	EPA 300.0 Rev 2.1 1993	606456		
92525335022	YGWA-4I	EPA 300.0 Rev 2.1 1993	606456		
92525335023	YGWA-20S	EPA 300.0 Rev 2.1 1993	606456		
92525335024	YGWA-21I	EPA 300.0 Rev 2.1 1993	606456		

Pana Amatediant	Document Na Sample Condition Upon	me: Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
- Tale Allaylical	Document N F-CAR-CS-033-F	lo.: Rev.07	Issuing Authority: Pace Carolinas Quality Office
boratory receiving samples: Asheville Eden Gre	enwood 🗌 Huntersville 🗌	Raleigh 🗌	Mechanicsville Atlanta Kernersville
Upon Receipt	e: nits hower	Project	•• W0#:92525335
Durier: Fed Ex Commercial Pace	UPS USPS Other:	Client	
tody Seal Present? Yes	⊴No Seals Intact? . □Yes	No	Date/Initials Person Examining Contents: <u>1773/3</u> /2
king Material: Bubble Wra	> □Bubble Bags □None 日報	Other et Blue 1	Biological Tissue Frozen?
vier Temp: <u> </u>	Type of Ice: Inrection Factor: dd/Subtract (°C) <u>4</u> , 0 nple) e within the United States: CA, NY, or SC (	T (check maps)? C	emp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling process has begun Did samples originate from a foreign source (internationally,
		1	Comments/Discrepancy:
Chain of Custody Present?	Elyes INO	□N/A 1.	
Samples Arrived within Hold Time?	Elves DNo	□N/A 2.	
Short Hold Time Analysis (<72 hr.)?		□N/A 3.	
Rush Turn Around Time Requested		□N/A 4.	
Sufficient Volume?	Pres ONO	□N/A 5.	
Correct Containers Used? -Pace Containers Used?	☐Yes □No ☐Yes □No	□N/A 6. □N/A	
Containers Intact?	Yes No	□N/A 7.	
Dissolved analysis: Samples Field Fil Sample Labels Match COC?	ered? 🛛 Yes 🖾 No Dres 🗆 No	□N/A 8. □N/A 9.	
-Includes Date/Time/ID/Analysis	Matrix:T		192 - 2010-1 (
Headspace in VOA Vials (>5-6mm)?	Yes No	DN/A 10.	
Trip Blank Present?	Yes No	DN/A 11.	
Trip Blank Custody Seals Present?	Yes ☐No		Field Data Required?
JENT NOTIFICATION/RESOLUTION		Lot	ID of split containers:
Person contacted:		Date/Time:	
Project Manager SCURF Review:		inter a star	Date:
Project Manager SRF Review:			Date:

			1	Pac	) ce An	alytic	al"			San	nple (	Doc Condi Do	tion L	nt Na J <b>pon</b> ent N	me: Recei 0.:	pt(SC	UR)		Doc	umer	nt Rev P Issui	vised: Page 2 ing Au	Octo of 2 uthor	ity:	8, 202	20		
*( Ve Sa Ex	Chec erific impl ceptic Bot	k ma ed ar es. ons: V tom	ark t nd w 'OA, C half	op h ithir alifor of b	maif o the m, TO ox is	of bo acco oc, oil s to l	and C ist n	oH an nce i Grease umb	nd/o range e, DRO er of	r dec e for /8019 f bot	chlor pres (wat tles	F-CAI rinat serva	ion i atior	<u>)33-R</u> S Hg	ev.07	Pro	ject	#		Pare O KL ENT	Caro H1	92 A-Gf	Quali 25	25 Due	ice 53 Dat	34	 5 03/1	6/:
kem#	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) (CH)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-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 HC! {pH < 2}	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	<b>AG15-1</b> liter Amber H2SO4 {pH < 2}	AG35-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4C! (N/A)(CI-)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vtals per ktt)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A-lab)	BPIN	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-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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		l	t			X	/				1													2	$\square$			
		1	l			N	/				1		1		1									R				

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

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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 DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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				BLING AND AND AND	2 Your as	1 vermen	D YGHARDOS	YGWAJRI	8 YGWA-186-	F YGNALTS- DUP-1	CHC UMJ) A GENERAL 28	5 vanta 16m A-St	A NOWNAL				Sample ids must be unique	SAMPLE ID	598	-	juested Due Date:	me: (770)384-6526 /Fax	alb:	ress: 1070 Bridge Mill Ave	rutred Crient Information:	tion A
	6	ad 1		OWTER	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT	# g # g # g # g # MATRIX COL	A D Bood A A A A A A A A A A A A A A A A A A	ATTENT Water Days	2	Project #:	Project Name:		Copy To:	Required Project	Section B
		N.	5	ANAB COMPANY						3/2	312	312					SAMPLE TYP	E (G=GRAB	C=COMP)	-		Yates AMA		y Steever	Information	
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	-	w/w	APA A				WT	WT	WT	WT	WT	WT	WT	WT	Tissue Common Common Status Status Status MATRIX CODE MATRIX CODE Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status	America Contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contr	>	Project #:	Purchase Order #:	roby to:	Report To: Beck	Section is Required Project	
SAMP (ER) PRINT		D	5	NOLLWITEN I ALS OTHER							3/1 1218				SAMPLE TYPE (G=GRA	C=COMP)		Yates Amer Up (n			y Sleever	Information:	
NAME AND SIGRATU Name of SAMPLER:		3 2.21	12950	DATE											SAMPLE TEMP AT COLLE			adient					The Chain-of-Cust
allery T bud		1730 mic	1530 1/10	TIME							SV V				# OF CONTAINERS Unpreserved H2SO4 HNO3 HC1 N2OH	Preserva	reversioner, 10040	Pace Project Manager:	Pace Quote:	Company Name:	Attention:	Section C Invoice Information:	ody is a LEGAL DO
akis		Innicel	5112	VCOBUED BY I VIEL				×	×	×	×	×	×	×	NaOn Na2S2O3 Methanol Other ATTBlyges Test	atives		kevin.herring@pace					CUMENT. All relevi
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Page 59 of 61

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				ADDITIONAL COMMENTS	SW-288-	8445-274	OWO-PRO-	- DUP-01	mer FBO	GWA-301	GWA-14S	CHARLES		SWA	SWA-15-	CHILLER	Semple ids must be unique	SAMPLE ID			Due Date:	(77/1)'384 ESOC	30114	Georgia Power 1070 Britton Mai Ave	lient information:	PROFESSION
			A														Thesaure 375	Wate Water With Producti Pro Soursound Pro Old OLD OLD	MATRIXC COOED Drinking WaterD DWD		Project #:	Purchase Ord	way to:	Report To:	Section B Required Pro	
			THE	Linda	NT I	WT	WT	WT	T	WT	WT	WT	TW	WT	WT	WT	MATRIX COD	E (see valid c	odes to left) C=COMP)		Y	er#:		Becky	ject Im	
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Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

March 28, 2021

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

RE: Project: YATES RADS Pace Project No.: 92525896

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on March 05, 2021. 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,

Karalin ya

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR Lauren Coker, Georgia Pwer Geoffrey Gay, ARCADIS - Atlanta Kristen Jurinko Kelley Sharpe, ARCADIS - Atlanta Alex Simpson, Arcadis Samantha Thomas Maribel Vital





Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

#### CERTIFICATIONS

Project: YATES RADS Pace Project No.: 92525896

#### 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 #: 9526 Washington Certification #: C868 West Virginia DEP Certification #: 143 West Virginia DHHR Certification #: 9964C Wisconsin Approve List for Rad Wyoming Certification #: 8TMS-L



Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

#### SAMPLE SUMMARY

Project: YATES RADS Pace Project No.: 92525896

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92525896001	YGWC-24SA	Water	03/03/21 11:50	03/05/21 09:20
92525896002	YGWC-36A	Water	03/04/21 12:35	03/05/21 09:20
92525896003	DUP-2	Water	03/03/21 00:00	03/05/21 09:20
92525896004	YGWC-23S	Water	03/04/21 12:15	03/05/21 09:20
92525896005	YGWC-41	Water	03/04/21 09:00	03/05/21 09:20
92525896006	YGWC-43	Water	03/04/21 14:50	03/05/21 09:20
92525896007	FB-1	Water	03/04/21 14:00	03/05/21 09:20
92525896008	EB-2	Water	03/04/21 16:35	03/05/21 09:20
92525896009	YGWC-49	Water	03/04/21 14:51	03/05/21 09:20
92525896010	FB-02	Water	03/04/21 15:00	03/05/21 09:20
92525896011	YGWC-42	Water	03/04/21 08:45	03/05/21 09:20
92525896012	YGWC-38	Water	03/04/21 13:45	03/05/21 09:20



# SAMPLE ANALYTE COUNT

Project:YATES RADSPace Project No.:92525896

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525896001	YGWC-24SA	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525896002	YGWC-36A	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525896003	DUP-2	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525896004	YGWC-23S	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525896005	YGWC-41	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525896006	YGWC-43	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525896007	FB-1	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525896008	EB-2	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525896009	YGWC-49	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525896010	FB-02	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525896011	YGWC-42	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525896012	YGWC-38	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA



#### SAMPLE ANALYTE COUNT

Pace Project No.: 92525896	Project:	YATES RADS		
	Pace Project No.:	92525896		

				Analytes	
Lab ID	Sample ID	Method	Analysts	Reported	Laboratory

PASI-PA = Pace Analytical Services - Greensburg


Project: YATES RADS

Pace Project No.: 92525896

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525896001	YGWC-24SA					
EPA 9315	Radium-226	0.139 ± 0.138 (0.275)	pCi/L		03/25/21 09:48	
EPA 9320	Radium-228	C:85% 1:NA 0.276 ± 0.454 (0.991) C:80% T:85%	pCi/L		03/25/21 15:46	
Total Radium Calculation	Total Radium	0.415 ± 0.592 (1.27)	pCi/L		03/26/21 13:56	
92525896002	YGWC-36A					
EPA 9315	Radium-226	0.0671 ± 0.0999 (0.218) C:93% T:NA	pCi/L		03/25/21 10:15	
EPA 9320	Radium-228	-0.226 ± 0.464 (1.10) C:78% T:88%	pCi/L		03/25/21 15:46	
Total Radium Calculation	Total Radium	0.0671 ± 0.564 (1.32)	pCi/L		03/26/21 13:56	
92525896003	DUP-2					
EPA 9315	Radium-226	4.78 ± 0.878 (0.257) C:85% T:NA	pCi/L		03/25/21 12:25	
EPA 9320	Radium-228	0.329 ± 0.440 (0.941) C:81% T:76%	pCi/L		03/25/21 15:48	
Total Radium Calculation	Total Radium	5.11 ± 1.32 (1.20)	pCi/L		03/26/21 13:56	
92525896004	YGWC-23S					
EPA 9315	Radium-226	0.230 ± 0.209 (0.423) C:82% T:NA	pCi/L		03/25/21 09:48	
EPA 9320	Radium-228	0.541 ± 0.461 (0.933) C:75% T:79%	pCi/L		03/25/21 15:48	
Total Radium Calculation	Total Radium	0.771 ± 0.670 (1.36)	pCi/L		03/26/21 13:56	



Project: YATES RADS

Pace Project No.: 92525896

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525896005	YGWC-41					
EPA 9315	Radium-226	0.260 ± 0.174 (0.297)	pCi/L		03/25/21 09:48	
EPA 9320	Radium-228	C:84% T:NA 0.968 ± 0.491 (0.867) C:77%	pCi/L		03/25/21 15:48	
Total Radium Calculation	Total Radium	T:80% 1.23 ± 0.665 (1.16)	pCi/L		03/26/21 13:56	
92525896006	YGWC-43					
EPA 9315	Radium-226	4.73 ± 0.872 (0.278) C:87% TNA	pCi/L		03/25/21 09:54	
EPA 9320	Radium-228	1.29 ± 0.544 (0.903) C:76% T:85%	pCi/L		03/25/21 15:48	
Total Radium Calculation	Total Radium	6.02 ± 1.42 (1.18)	pCi/L		03/26/21 13:56	
92525896007	FB-1					
EPA 9315	Radium-226	0.135 ± 0.137 (0.269) C:85% T:NA	pCi/L		03/25/21 09:48	
EPA 9320	Radium-228	0.616 ± 0.480 (0.955) C:76% T:77%	pCi/L		03/25/21 15:48	
Total Radium Calculation	Total Radium	0.751 ± 0.617 (1.22)	pCi/L		03/26/21 13:56	
92525896008	EB-2					
EPA 9315	Radium-226	0.0835 ± 0.120 (0.261) C:88% TNA	pCi/L		03/25/21 12:27	
EPA 9320	Radium-228	0.815 ± 0.506 (0.961) C:82% T:73%	pCi/L		03/25/21 15:48	
Total Radium Calculation	Total Radium	0.899 ± 0.626 (1.22)	pCi/L		03/26/21 13:56	



Project: YATES RADS

Pace Project No.: 92525896

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525896009	YGWC-49					
EPA 9315	Radium-226	0.207 ± 0.133 (0.183)	pCi/L		03/25/21 08:50	
EPA 9320	Radium-228	C:79% 1:NA 0.372 ± 0.474 (1.01) C:77%	pCi/L		03/25/21 15:48	
Total Radium Calculation	Total Radium	1:75% 0.579 ± 0.607 (1.19)	pCi/L		03/26/21 13:56	
92525896010	FB-02					
EPA 9315	Radium-226	0.0807 ± 0.102 (0.208) C:80% T:NA	pCi/L		03/25/21 08:50	
EPA 9320	Radium-228	0.189 ± 0.409 (0.904) C:82% T:77%	pCi/L		03/25/21 15:48	
Total Radium Calculation	Total Radium	0.270 ± 0.511 (1.11)	pCi/L		03/26/21 13:56	
92525896011	YGWC-42					
EPA 9315	Radium-226	0.192 ± 0.134 (0.220) C:89% T:NA	pCi/L		03/25/21 08:50	
EPA 9320	Radium-228	0.830 ± 0.440 (0.791) C:79% T:86%	pCi/L		03/25/21 15:48	
Total Radium Calculation	Total Radium	1.02 ± 0.574 (1.01)	pCi/L		03/26/21 13:56	
92525896012	YGWC-38					
EPA 9315	Radium-226	0.131 ± 0.115 (0.207) C:89% T.NA	pCi/L		03/25/21 08:50	
EPA 9320	Radium-228	0.685 ± 0.396 (0.723) C:78% T:87%	pCi/L		03/25/21 15:48	
Total Radium Calculation	Total Radium	0.816 ± 0.511 (0.930)	pCi/L		03/26/21 13:56	



Project: YATES RADS

Pace Project No.: 92525896

Sample: YGWC-24SA PWS:	Lab ID: 925258 Site ID:	<b>296001</b> Collected: 03/03/21 11:50 Sample Type:	Received:	03/05/21 09:20 N	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	ervices - Greensburg				
Radium-226	EPA 9315	0.139 ± 0.138 (0.275) C:85% T:NA	pCi/L	03/25/21 09:48	13982-63-3	
	Pace Analytical Se	ervices - Greensburg				
Radium-228	EPA 9320	0.276 ± 0.454 (0.991) C:80% T:85%	pCi/L	03/25/21 15:46	15262-20-1	
	Pace Analytical Se	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.415 ± 0.592 (1.27)	pCi/L	03/26/21 13:56	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525896

Sample: YGWC-36A PWS:	Lab ID: 9252 Site ID:	5896002 Collected: 03/04/21 12:35 Sample Type:	Received:	03/05/21 09:20 N	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0671 ± 0.0999 (0.218) C:93% T:NA	pCi/L	03/25/21 10:15	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	-0.226 ± 0.464 (1.10) C:78% T:88%	pCi/L	03/25/21 15:46	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.0671 ± 0.564 (1.32)	pCi/L	03/26/21 13:56	7440-14-4	



Project: YATES RADS Pace Project No.: 92525896 Sample: DUP-2 Lab ID: 92525896003 Collected: 03/03/21 00:00 Received: 03/05/21 09:20 Matrix: Water PWS: Site ID: Sample Type: Act ± Unc (MDC) Carr Trac Parameters Method Units Analyzed CAS No. Qual Pace Analytical Services - Greensburg EPA 9315 4.78 ± 0.878 (0.257) Radium-226 pCi/L 03/25/21 12:25 13982-63-3 C:85% T:NA Pace Analytical Services - Greensburg EPA 9320 0.329 ± 0.440 (0.941) Radium-228 pCi/L 03/25/21 15:48 15262-20-1 C:81% T:76% Pace Analytical Services - Greensburg **Total Radium** Total Radium 5.11 ± 1.32 (1.20) pCi/L 03/26/21 13:56 7440-14-4 Calculation



Project: YATES RADS

Pace Project No.: 92525896

Sample: YGWC-23S PWS:	Lab ID: 9252589 Site ID:	Collected: 03/04/21 12:15 Sample Type:	Received:	03/05/21 09:20 M	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	rvices - Greensburg				
Radium-226	EPA 9315	0.230 ± 0.209 (0.423) C:82% T:NA	pCi/L	03/25/21 09:48	13982-63-3	
	Pace Analytical Ser	rvices - Greensburg				
Radium-228	EPA 9320	0.541 ± 0.461 (0.933) C:75% T:79%	pCi/L	03/25/21 15:48	15262-20-1	
	Pace Analytical Ser	rvices - Greensburg				
Total Radium	Total Radium Calculation	0.771 ± 0.670 (1.36)	pCi/L	03/26/21 13:56	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525896

Sample: YGWC-41 PWS:	Lab ID: 9252 Site ID:	5896005 Collected: 03/04/21 09:00 Sample Type:	Received:	03/05/21 09:20 M	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.260 ± 0.174 (0.297) C:84% T:NA	pCi/L	03/25/21 09:48	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.968 ± 0.491 (0.867) C:77% T:80%	pCi/L	03/25/21 15:48	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	1.23 ± 0.665 (1.16)	pCi/L	03/26/21 13:56	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525896

Sample: YGWC-43	Lab ID: 9252	5896006 Collected: 03/04/21 14:50 Sample Type:	Received:	03/05/21 09:20 N	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	4.73 ± 0.872 (0.278) C:87% T:NA	pCi/L	03/25/21 09:54	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	1.29 ± 0.544 (0.903) C:76% T:85%	pCi/L	03/25/21 15:48	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	6.02 ± 1.42 (1.18)	pCi/L	03/26/21 13:56	7440-14-4	



Project: YATES RADS

Pace Project No.: 9	92525896
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Sample: FB-1	Lab ID: 925258	96007 Collected: 03/04/21 14:00	Received:	03/05/21 09:20 N	latrix: Water	
PWS:	Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	ervices - Greensburg				
Radium-226	EPA 9315	0.135 ± 0.137 (0.269) C:85% T:NA	pCi/L	03/25/21 09:48	13982-63-3	
	Pace Analytical Se	ervices - Greensburg				
Radium-228	EPA 9320	0.616 ± 0.480 (0.955) C:76% T:77%	pCi/L	03/25/21 15:48	15262-20-1	
	Pace Analytical Se	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.751 ± 0.617 (1.22)	pCi/L	03/26/21 13:56	7440-14-4	



Project: YATES RADS

Pace Project No.:	92525896
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Sample: EB-2	Lab ID: 9252589	6008 Collected: 03/04/21 16:35	Received:	03/05/21 09:20 N	Aatrix: Water	
PWS:	Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.0835 ± 0.120 (0.261) C:88% T:NA	pCi/L	03/25/21 12:27	13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	0.815 ± 0.506 (0.961) C:82% T:73%	pCi/L	03/25/21 15:48	15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	0.899 ± 0.626 (1.22)	pCi/L	03/26/21 13:56	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525896

Sample: YGWC-49 PWS:	Lab ID: 9252 Site ID:	5896009 Collected: 03/04/21 14:51 Sample Type:	Received:	03/05/21 09:20 N	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.207 ± 0.133 (0.183) C:79% T:NA	pCi/L	03/25/21 08:50	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.372 ± 0.474 (1.01) C:77% T:75%	pCi/L	03/25/21 15:48	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.579 ± 0.607 (1.19)	pCi/L	03/26/21 13:56	7440-14-4	



Project:YATES RADSPace Project No.:92525896

Sample: FB-02	Lab ID: 92525	<b>896010</b> Collected: 03/04/21 15:00	Received:	03/05/21 09:20 N	latrix: Water	
PWS:	Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	ervices - Greensburg				
Radium-226	EPA 9315	0.0807 ± 0.102 (0.208) C:80% T:NA	pCi/L	03/25/21 08:50	13982-63-3	
	Pace Analytical S	ervices - Greensburg				
Radium-228	EPA 9320	0.189 ± 0.409 (0.904) C:82% T:77%	pCi/L	03/25/21 15:48	15262-20-1	
	Pace Analytical S	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.270 ± 0.511 (1.11)	pCi/L	03/26/21 13:56	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525896

Sample: YGWC-42 PWS:	Lab ID: 92525 Site ID:	<b>896011</b> Collected: 03/04/21 08:45 Sample Type:	Received:	03/05/21 09:20 N	Aatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg				
Radium-226	EPA 9315	0.192 ± 0.134 (0.220) C:89% T:NA	pCi/L	03/25/21 08:50	13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.830 ± 0.440 (0.791) C:79% T:86%	pCi/L	03/25/21 15:48	15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	1.02 ± 0.574 (1.01)	pCi/L	03/26/21 13:56	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525896

Sample: YGWC-38	Lab ID: 9252	<b>5896012</b> Collected: 03/04/21 13:45	Received:	03/05/21 09:20 N	latrix: Water	
PWS:	Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.131 ± 0.115 (0.207) C:89% T:NA	pCi/L	03/25/21 08:50	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.685 ± 0.396 (0.723) C:78% T:87%	pCi/L	03/25/21 15:48	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.816 ± 0.511 (0.930)	pCi/L	03/26/21 13:56	7440-14-4	



#### **QUALITY CONTROL - RADIOCHEMISTRY**

Project:	YATES RADS	6								
Pace Project No.:	92525896									
QC Batch:	438168		Analysis Method:	EPA 9320						
QC Batch Method:	EPA 9320		Analysis Description:	9320 Radium 22	28					
Associated Lab Sam	nples: 9252 9252	5896001, 9252589600 5896008, 9252589600	Laboratory: 02, 92525896003, 9252589600 09, 92525896010, 9252589601	Pace Analytical 04, 92525896005, 9 1, 92525896012	Pace Analytical Services - Greensburg 4, 92525896005, 92525896006, 92525896007, 1, 92525896012					
METHOD BLANK:	2115336		Matrix: Water							
Associated Lab Sam	nples: 9252 9252	5896001, 9252589600 5896008, 9252589600	02, 92525896003, 9252589600 09, 92525896010, 9252589601	04, 92525896005, 9 1, 92525896012	92525896006, 925258	396007,				
Param	neter	Act ±	Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers				
Radium-228		0.0301 ± 0.353	(0.815) C:79% T:75%	pCi/L	03/25/21 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:	YATES	RADS						
Pace Project No.:	925258							
QC Batch:	43826	4	Analysis Method:	EPA 9315				
QC Batch Method:	EPA 9	315	Analysis Description:	9315 Total Radiur	n			
Associated Lab Sam	ples:	92525896001, 9252589600 92525896008, 9252589600	Laboratory: Pace Analytical Services - Greensburg 01, 92525896002, 92525896003, 92525896004, 92525896005, 92525896006, 92525896007, 08, 92525896009, 92525896010, 92525896011, 92525896012					
METHOD BLANK:	211566	6	Matrix: Water					
Associated Lab Sam	ples:	92525896001, 9252589600 92525896008, 9252589600	02, 92525896003, 92525896004 09, 92525896010, 92525896011	4, 92525896005, 92 1, 92525896012	2525896006, 925258	96007,		
Param	neter	Act ±	Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers		
Radium-226		0.0177 ± 0.140	(0.349) C:93% T:NA	pCi/L	03/25/21 09:33			

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 RADS Pace Project No.: 92525896

#### 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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.



## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	YATES RADS
Pace Project No.:	92525896

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525896001	YGWC-24SA	EPA 9315	438264		
92525896002	YGWC-36A	EPA 9315	438264		
92525896003	DUP-2	EPA 9315	438264		
92525896004	YGWC-23S	EPA 9315	438264		
92525896005	YGWC-41	EPA 9315	438264		
92525896006	YGWC-43	EPA 9315	438264		
92525896007	FB-1	EPA 9315	438264		
92525896008	EB-2	EPA 9315	438264		
92525896009	YGWC-49	EPA 9315	438264		
92525896010	FB-02	EPA 9315	438264		
92525896011	YGWC-42	EPA 9315	438264		
92525896012	YGWC-38	EPA 9315	438264		
92525896001	YGWC-24SA	EPA 9320	438168		
92525896002	YGWC-36A	EPA 9320	438168		
92525896003	DUP-2	EPA 9320	438168		
92525896004	YGWC-23S	EPA 9320	438168		
92525896005	YGWC-41	EPA 9320	438168		
92525896006	YGWC-43	EPA 9320	438168		
92525896007	FB-1	EPA 9320	438168		
92525896008	EB-2	EPA 9320	438168		
92525896009	YGWC-49	EPA 9320	438168		
92525896010	FB-02	EPA 9320	438168		
92525896011	YGWC-42	EPA 9320	438168		
92525896012	YGWC-38	EPA 9320	438168		
92525896001	YGWC-24SA	Total Radium Calculation	440647		
92525896002	YGWC-36A	Total Radium Calculation	440647		
92525896003	DUP-2	Total Radium Calculation	440647		
92525896004	YGWC-23S	Total Radium Calculation	440647		
92525896005	YGWC-41	Total Radium Calculation	440647		
92525896006	YGWC-43	Total Radium Calculation	440647		
92525896007	FB-1	Total Radium Calculation	440647		
92525896008	EB-2	Total Radium Calculation	440647		
92525896009	YGWC-49	Total Radium Calculation	440647		
92525896010	FB-02	Total Radium Calculation	440647		
92525896011	YGWC-42	Total Radium Calculation	440647		
92525896012	YGWC-38	Total Radium Calculation	440647		

	Document N	ame:	(0)	Document Revised: October 28, 2020	
Pace Analytical*	Sample Condition Upon Document I	No.:		Issuing Authority:	
	F-CAR-CS-033-	Rev.07		Pace Carolinas Quality Office	
ratory receiving samples: neville Eden Greenwood	Huntersville	Raleigh[	] Me	Atlanta Kerners	sville 🗌
pon Receipt	rower	PI	-		
fer:Fed ExL ommercialPace	PS USPS Other:	Geren	t	92525896	
dy Seal Present? Yes No-	Seals Intact? , 🗌 Yes	DN0		Date/Initials Person Examining Contents:	5/21
ng Material: 🗌 Bubble Wrap	Bubble Bags None	Oth	er	Biological Tissue Frozen?	( Pf-
Trometer: 230	Type of Ice:	Wet Biu	e 🗍	None Yes HTO UN/A	
r Temp: <u>C</u> Add/Subtr r Temp Corrected (*C): A Regulated Soll ( [] N/A, water sample) amples originate in a quarantine zone within th	rector: $0, 0$ 2, 0 re United States: CA, NY, or 50	- C (check map	Tem     s)? Did	p should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cool has begun samples originate from a foreign source (Internation	ling proces: hally,
Yes No			incl	Comments/Discrepancy:	
Chain of Custody Present?			1	anna - An Anna Anna Anna Anna Anna Anna	
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Short Hold Time Analysis (<77 hr.)?			3		and a state of the second second second second second second second second second second second second second s
Rush Turn Around Time Requested?			4.	nan an an an an an an an an an an an an	
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Containers Intact?	Fres DNO	MN/A	7.		
Dissolved analysis: Samoles Field Filtered?	TYes, DNo	PINA	8.	ann agus ann ann ann ann ann ann ann ann ann an	
Sample Labels Match COC?			9.	7	
Handsmace in VOA Vials (55-5mm)?		TINA	10.		
Trip Blank Present?		DN/A/	11.	annun an an an an an an an an an an an an an	
Trip Blank Custody Seals Present?	Yes No	ENIA			
OMMENTS/SAMPLE DISCREPANCY				Field Data Required?	Yes 🗍No
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IENT NOTIFICATION/RESOLUTION			LOCIL	Jul spit containers.	
Person contacted		Date/T	me:		
Desired Managers COURE Desires				Date:	
Project Manager SCORP Review:					

Pace Analytical"	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 2 of 2
- Tace Allalylical	Document No.: F-CAR-CS-033-Rev.07	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.

Project #

WO#:92525896

Date: 03/26/21

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg \*\*Bottom half of box is to list number of bottles

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PH:	KLH	1	Due
CLI	ENT :	GA-GA	Pow

er

tems	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (CI-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP42-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (CH)	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)	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 Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 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)	BUN	BP3A-250 mL Plastic (NH2)2504 (9.3-9.7)	AGOU-100 mL Amber Unpreserved viais (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials {N/A}
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and the second second		pH Ac	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 DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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	g 10000000 - 20000	ADDITIONAL COMPLEXITY									Smess- DUV-2	GWC38A	GWC-24SA	(A-Z, 0-8 /, - Sample kis must be unique	SAMPLE ID			(1/0)384-6526 Fax		30114	Georgia Power	lient information:	Face Analytical
														Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer of Officer officer of Officer officer officer officer officer officer officer officer officer officer officer officer officer officer officer officer officer officer officer officer officer officer off	Automatic Market Cadimy Master Market Canon Caro Caro Caro Caro Caro Caro Caro Caro	MATHAND CODED	Project #;	Project Nam	Purchase O	Lopy 10:	Report To:	Section B Required P	
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Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

March 28, 2021

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

RE: Project: YATES RADS Pace Project No.: 92525905

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on March 05, 2021. 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,

Karalin ya

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR Lauren Coker, Georgia Pwer Geoffrey Gay, ARCADIS - Atlanta Kristen Jurinko Kelley Sharpe, ARCADIS - Atlanta Alex Simpson, Arcadis Samantha Thomas Maribel Vital





Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

#### CERTIFICATIONS

Project: YATES RADS Pace Project No.: 92525905

#### 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 #: 9526 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 RADS Pace Project No.: 92525905

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92525905001	YAMW-2	Water	03/03/21 14:10	03/05/21 09:20
92525905002	YAMW-4	Water	03/03/21 13:05	03/05/21 09:20
92525905003	YAMW-5	Water	03/04/21 14:15	03/05/21 09:20
92525905004	YAMW-1	Water	03/03/21 15:15	03/05/21 09:20
92525905005	PZ-35	Water	03/04/21 15:30	03/05/21 09:20
92525905006	EB1	Water	03/04/21 16:00	03/05/21 09:20
92525905007	PZ-37	Water	03/04/21 11:55	03/05/21 09:20



# SAMPLE ANALYTE COUNT

Project:YATES RADSPace Project No.:92525905

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525905001	YAMW-2	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525905002	YAMW-4	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525905003	YAMW-5	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525905004	YAMW-1	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525905005	PZ-35	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525905006	EB1	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525905007	PZ-37	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg



Project: YATES RADS

Pace Project No.: 92525905

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525905001	YAMW-2					
EPA 9315	Radium-226	0.101 ± 0.102 (0.188)	pCi/L		03/25/21 08:50	
EPA 9320	Radium-228	0.462 ± 0.393 (0.795) C:80%	pCi/L		03/25/21 12:21	
Total Radium Calculation	Total Radium	0.563 ± 0.495 (0.983)	pCi/L		03/26/21 14:34	
92525905002	YAMW-4					
EPA 9315	Radium-226	0.252 ± 0.159 (0.242) C:72% T:NA	pCi/L		03/25/21 08:50	
EPA 9320	Radium-228	0.822 ± 0.449 (0.823) C:80% T:80%	pCi/L		03/25/21 12:21	
Total Radium Calculation	Total Radium	1.07 ± 0.608 (1.07)	pCi/L		03/26/21 14:34	
92525905003	YAMW-5					
EPA 9315	Radium-226	0.479 ± 0.208 (0.275) C:84% T:NA	pCi/L		03/25/21 08:50	
EPA 9320	Radium-228	0.979 ± 0.406 (0.656) C:81% T:89%	pCi/L		03/25/21 12:21	
Total Radium Calculation	Total Radium	1.46 ± 0.614 (0.931)	pCi/L		03/26/21 14:34	
92525905004	YAMW-1					
EPA 9315	Radium-226	0.131 ± 0.146 (0.301) C·79% TNA	pCi/L		03/26/21 08:05	
EPA 9320	Radium-228	0.246 ± 0.446 (0.975) C:81% T:71%	pCi/L		03/23/21 13:46	
Total Radium Calculation	Total Radium	0.377 ± 0.592 (1.28)	pCi/L		03/26/21 14:34	



Project: YATES RADS

Pace Project No.: 92525905

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525905005	PZ-35					
EPA 9315	Radium-226	0.131 ± 0.116 (0.213) C:96% T:NA	pCi/L		03/26/21 08:05	
EPA 9320	Radium-228	0.266 ± 0.375 (0.806) C:85% T:83%	pCi/L		03/23/21 13:46	
Total Radium Calculation	Total Radium	0.397 ± 0.491 (1.02)	pCi/L		03/26/21 14:34	
92525905006	EB1					
EPA 9315	Radium-226	0.0452 ± 0.0923 (0.215) C:83% T.NA	pCi/L		03/26/21 08:05	
EPA 9320	Radium-228	0.393 ± 0.346 (0.695) C:82% T:77%	pCi/L		03/23/21 13:46	
Total Radium Calculation	Total Radium	0.438 ± 0.438 (0.910)	pCi/L		03/26/21 14:34	
92525905007	PZ-37					
EPA 9315	Radium-226	0.868 ± 0.271 (0.307) C <sup>.</sup> 79% T.NA	pCi/L		03/26/21 08:10	
EPA 9320	Radium-228	0.626 ± 0.363 (0.662) C:78% T:92%	pCi/L		03/23/21 13:47	
Total Radium Calculation	Total Radium	1.49 ± 0.634 (0.969)	pCi/L		03/26/21 14:34	



Project: YATES RADS

Pace Project No.: 92525905

Sample: YAMW-2 PWS:	Lab ID: 92525 Site ID:	905001 Collected: 03/03/21 14:10 Sample Type:	Received:	03/05/21 09:20 N	fatrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Gervices - Greensburg				
Radium-226	EPA 9315	0.101 ± 0.102 (0.188) C:85% T:NA	pCi/L	03/25/21 08:50	13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.462 ± 0.393 (0.795) C:80% T:79%	pCi/L	03/25/21 12:21	15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.563 ± 0.495 (0.983)	pCi/L	03/26/21 14:34	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525905

Sample: YAMW-4 PWS:	Lab ID: 9252 Site ID:	5905002 Collected: 03/03/21 13:05 Sample Type:	Received:	03/05/21 09:20 M	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.252 ± 0.159 (0.242) C:72% T:NA	pCi/L	03/25/21 08:50	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.822 ± 0.449 (0.823) C:80% T:80%	pCi/L	03/25/21 12:21	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	1.07 ± 0.608 (1.07)	pCi/L	03/26/21 14:34	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525905

Sample: YAMW-5	Lab ID: 925259	<b>05003</b> Collected: 03/04/21 14:15	Received:	03/05/21 09:20	Aatrix: Water	
PWS:	Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	rvices - Greensburg				
Radium-226	EPA 9315	0.479 ± 0.208 (0.275) C:84% T:NA	pCi/L	03/25/21 08:50	13982-63-3	
	Pace Analytical Se	rvices - Greensburg				
Radium-228	EPA 9320	0.979 ± 0.406 (0.656) C:81% T:89%	pCi/L	03/25/21 12:21	15262-20-1	
	Pace Analytical Se	rvices - Greensburg				
Total Radium	Total Radium Calculation	1.46 ± 0.614 (0.931)	pCi/L	03/26/21 14:34	7440-14-4	



Project: YATES RADS

Pace Project No.: 92525905

Sample: YAMW-1 PWS:	Lab ID: 925259 Site ID:	05004 Collected: 03/03/21 15:15 Sample Type:	Received:	03/05/21 09:20 N	latrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	rvices - Greensburg				
Radium-226	EPA 9315	0.131 ± 0.146 (0.301) C:79% T:NA	pCi/L	03/26/21 08:05	13982-63-3	
	Pace Analytical Se	rvices - Greensburg				
Radium-228	EPA 9320	0.246 ± 0.446 (0.975) C:81% T:71%	pCi/L	03/23/21 13:46	15262-20-1	
	Pace Analytical Se	rvices - Greensburg				
Total Radium	Total Radium Calculation	0.377 ± 0.592 (1.28)	pCi/L	03/26/21 14:34	7440-14-4	


#### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS Pace Project No.: 92525905 Sample: PZ-35 Lab ID: 92525905005 Collected: 03/04/21 15:30 Received: 03/05/21 09:20 Matrix: Water PWS: Site ID: Sample Type: Act ± Unc (MDC) Carr Trac Parameters Method Units Analyzed CAS No. Qual Pace Analytical Services - Greensburg EPA 9315 0.131 ± 0.116 (0.213) Radium-226 pCi/L 03/26/21 08:05 13982-63-3 C:96% T:NA Pace Analytical Services - Greensburg EPA 9320 0.266 ± 0.375 (0.806) Radium-228 pCi/L 03/23/21 13:46 15262-20-1 C:85% T:83% Pace Analytical Services - Greensburg **Total Radium** Total Radium 0.397 ± 0.491 (1.02) pCi/L 03/26/21 14:34 7440-14-4 Calculation



#### **ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: YATES RADS

Pace I	Project	No.:	92525905
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Sample: EB1	Lab ID: 9252590	Collected: 03/04/21 16:00	Received:	03/05/21 09:20 N	latrix: Water	
PWS:	Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Serv	vices - Greensburg				
Radium-226	EPA 9315	0.0452 ± 0.0923 (0.215) C:83% T:NA	pCi/L	03/26/21 08:05	13982-63-3	
	Pace Analytical Serv	vices - Greensburg				
Radium-228	EPA 9320	0.393 ± 0.346 (0.695) C:82% T:77%	pCi/L	03/23/21 13:46	15262-20-1	
	Pace Analytical Serv	vices - Greensburg				
Total Radium	Total Radium Calculation	0.438 ± 0.438 (0.910)	pCi/L	03/26/21 14:34	7440-14-4	



#### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS Pace Project No.: 92525905 Sample: PZ-37 Lab ID: 92525905007 Collected: 03/04/21 11:55 Received: 03/05/21 09:20 Matrix: Water PWS: Site ID: Sample Type: Act ± Unc (MDC) Carr Trac Parameters Method Units Analyzed CAS No. Qual Pace Analytical Services - Greensburg EPA 9315 0.868 ± 0.271 (0.307) Radium-226 pCi/L 03/26/21 08:10 13982-63-3 C:79% T:NA Pace Analytical Services - Greensburg EPA 9320 0.626 ± 0.363 (0.662) Radium-228 pCi/L 03/23/21 13:47 15262-20-1 C:78% T:92% Pace Analytical Services - Greensburg **Total Radium** Total Radium 1.49 ± 0.634 (0.969) pCi/L 03/26/21 14:34 7440-14-4 Calculation



Project:	YATES RADS						
Pace Project No.:	92525905						
QC Batch:	438168		Analysis Method:	EPA 9320			
QC Batch Method:	EPA 9320		Analysis Description:	9320 Radium 22	28		
			Laboratory:	Pace Analytical	Services - Greensbur	g	
Associated Lab Sar	mples: 92525905	001, 9252590500	2, 92525905003				
METHOD BLANK:	2115336		Matrix: Water				
Associated Lab Sar	mples: 92525905	001, 9252590500	2, 92525905003				
Parar	meter	Act ± l	Inc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-228		0.0301 ± 0.353	(0.815) C:79% T:75%	pCi/L	03/25/21 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.



Project:	YATES RADS						
Pace Project No.:	92525905						
QC Batch:	438264		Analysis Method:	EPA 9315			
QC Batch Method:	EPA 9315		Analysis Description:	9315 Total Radi	um		
			Laboratory:	Pace Analytical	Services - Greensbur	g	
Associated Lab Sar	mples: 92525905	001, 92525905002	2, 92525905003				
METHOD BLANK:	2115666		Matrix: Water				
Associated Lab Sar	mples: 92525905	001, 92525905002	2, 92525905003				
Parar	neter	Act ± U	nc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-226		0.0177 ± 0.140 (	(0.349) C:93% T:NA	pCi/L	03/25/21 09:33		

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 RADS					
Pace Project No.:	92525905					
QC Batch:	438266	Analysis Method:	EPA 9315			
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radiu	m		
		Laboratory:	Pace Analytical S	ervices - Greensbur	g	
Associated Lab San	nples: 92525905	5004, 92525905005, 92525905006, 9252590500 <sup>°</sup>	7			
METHOD BLANK:	2115671	Matrix: Water				
Associated Lab San	nples: 92525905	i004, 92525905005, 92525905006, 9252590500 <sup>°</sup>	7			
Paran	neter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-226		0.142 ± 0.131 (0.243) C:77% T:NA	pCi/L	03/26/21 08:05		

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 RADS				
Pace Project No.:	92525905				
QC Batch:	438169	Analysis Method:	EPA 9320		
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228		
		Laboratory:	Pace Analytical Se	ervices - Greensburg	g
Associated Lab San	nples: 92525905	004, 92525905005, 92525905006, 92525905007			
METHOD BLANK:	2115337	Matrix: Water			
Associated Lab San	nples: 92525905	004, 92525905005, 92525905006, 92525905007			
Paran	neter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228		0.429 ± 0.325 (0.634) C:80% T:90%	pCi/L	03/23/21 13:45	

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 RADS Pace Project No.: 92525905

#### 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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.



#### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	YATES RADS
Pace Project No.:	92525905

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525905001	YAMW-2	EPA 9315	438264		
92525905002	YAMW-4	EPA 9315	438264		
92525905003	YAMW-5	EPA 9315	438264		
92525905004	YAMW-1	EPA 9315	438266		
92525905005	PZ-35	EPA 9315	438266		
92525905006	EB1	EPA 9315	438266		
92525905007	PZ-37	EPA 9315	438266		
92525905001	YAMW-2	EPA 9320	438168		
92525905002	YAMW-4	EPA 9320	438168		
92525905003	YAMW-5	EPA 9320	438168		
92525905004	YAMW-1	EPA 9320	438169		
92525905005	PZ-35	EPA 9320	438169		
92525905006	EB1	EPA 9320	438169		
92525905007	PZ-37	EPA 9320	438169		
92525905001	YAMW-2	Total Radium Calculation	440666		
92525905002	YAMW-4	Total Radium Calculation	440666		
92525905003	YAMW-5	Total Radium Calculation	440666		
92525905004	YAMW-1	Total Radium Calculation	440666		
92525905005	PZ-35	Total Radium Calculation	440666		
92525905006	EB1	Total Radium Calculation	440666		
92525905007	PZ-37	Total Radium Calculation	440666		

1	Document Name:		Document Revised: October 28, 2020	
Pace Analytical*	Sample Condition Upon Receipt	SCUR)	Page 1 of 2 Issuing Authority:	
1-	F-CAR-CS-033-Rev.07		Pace Carolinas Quality Office	
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Dissolved analysis: Samples Field Filtered?	TYES DNO DINA	8.		
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix:	©Tres ⊡No ⊡N/A 	9.		
Headspace in VOA Vials (>5-6mm)?	Yes DNO DN/	10.	Managaru - akasterrati	
Trip Blank Present?	Ves No MA	11,		
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Project Manager SCURF Review:			Date:	

Programme and	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 2 of 2
/ Pace Analytical	Document No.: F-CAR-CS-033-Rev.07	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.

Project #

WO#: 92525905 PM: KLH1 Due Date: 03/26/21

CLIENT: GA-GA Power

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg \*\*Bottom half of box is to list number of bottles

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)	BP45-125 mL Plastic H2SO4 (pH < 2) (CI-)	BP3N-250 mL plastic HNO3 (pH < 2)	8P4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-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 mL Amber Unpreserved (N/A) (CI-)	AG1S-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 Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 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 Plasfic (N/A - (ab)	SV/N	BP3A-250 mL Plastic (NH2)25O4 (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 Adjustment Log for Preserved Samples												
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				444								

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.

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# May 2021 PZ-37D

2021 Semiannual Groundwater and Corrective Action Report Plant Yates AP-3, A, B, B' and R6 CCR Landfill Newnan, GA



# Georgia Power Co. – Plant Yates

# **DATA REVIEW**

Metals, Radium, and General Chemistry Analyses SDGs #92538831 and 92538834

Analyses Performed By: Pace Analytical Services - Asheville, North Carolina Pace Analytical Services - Peachtree Corners, Georgia Pace Analytical Services - Greensburg, Pennsylvania

Report #41952R Review Level: Tier II Project: 30052922.00004

# **SUMMARY**

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #92538834 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			Analys	sis
Sample ID	Lab ID	Matrix	Collection Date	Parent Sample	RAD	МЕТ	GEN CHEM
	92538831001	\A/=+==	F/40/0004		v	V	Y
PZ-37D	92538834001	vvater	5/13/2021		X	X	X
	92538831002		E / 4 0 / 0 0 0 4		X	V	V
FB-1	92538834002	vvater	5/13/2021		X	Х	Х
	92538831003		= / 10/000 /			N/	N/
EB-1	92538834003	Water	5/13/2021		X	Х	Х
	92538831004		- / /				
DUP-1	92538834004	Water	5/13/2021	PZ-37D	X	Х	Х

Notes:

- Metals and total dissolved solids (TDS) analysis performed by Pace Analytical Services Peachtree Corners, Georgia.
- 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 is the evaluation of the data package completeness.

		Rep	orted	Perfor Acce	mance ptable	Not
	Items Reviewed	No	Yes	No	Yes	Required
1.	Sample receipt condition		Х		Х	
2.	Requested analyses and sample results		Х		Х	
3.	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 (COC) form		Х		Х	
11.	Narrative summary of QA or sample problems provided		Х		Х	
12.	Data Package Completeness and Compliance		X		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 National Functional Guidelines for Inorganic Superfund Methods Data Review (January2017).

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 reported sample detection 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 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 analytes 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.

Samp	ole Locations	Analytes	Sample Result	Qualification
PZ-37D		Antimony (EB, FB, MB)	Detected sample results <rl <bal<="" and="" td=""><td>"UB" at the RL</td></rl>	"UB" at the RL
DUP-1				
Note:				
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.

#### DATA REVIEW REPORT

# 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 PZ-37D in association with SW-846 6020B and 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 using sample PZ-37D in association with SW-846 6020B and SW-846 7470A analysis in replacement of laboratory duplicate analysis. The MS/MSD recoveries exhibited acceptable RPDs.

Laboratory duplicate analysis was not performed using a sample from this SDG in association with SW-846 6010D 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.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Calcium	68.3	71.6	4.7%
	Boron	1.3	1.2	8.0%
	Barium	0.015	0.015	
PZ-37D / DUP-1	Lead	0.000049 J	0.000040 J	
	Lithium	0.011 J	0.011 J	AC
	Molybdenum	0.0042 J	0.0040 J	

Results for duplicate samples are summarized in the following table.

Notes:

AC = Acceptable

#### DATA REVIEW REPORT

The differences in the results between the parent sample PZ-37D and field duplicate sample 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	Repo	orted	Performance Acceptable		Not
	No	Yes	No	Yes	Required
Inductively Coupled Plasma-Atomic Emission Spectrometer	ry (ICP-AE	S)			
Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)	)				
Cold Vapor Atomic Absorption (CVAA)					
Tier II Validation					
Holding Times		Х		Х	
Reporting limits (units)		Х		Х	
Blanks					
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	
Field/Lab Duplicate (RPD)		Х		Х	
Reporting Limit Verification		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 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 performed on sample location PZ-37D exhibited recoveries within control limits with the exception presented in the table below.

#### DATA REVIEW REPORT

Sample Location	Analyte	MS Recovery	MSD Recovery
PZ-37D	Sulfate	56%	42%

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

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

Laboratory duplicate analysis was not performed using a sample from this SDG in association with TDS analysis.

MS/MSD analysis was performed using samples PZ-37D in association with anion analysis in replacement of 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
	TDS	381	383	0.5%
	Sulfate	178	154	14.5%
PZ-37D7 D0P-1	Chloride	4.0	3.9	
	Fluoride	0.12	0.12	AC

Notes:

AC = Acceptable

The differences in the results between the parent sample PZ-37D and field duplicate sample 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 REVIEW REPORT

# DATA VALIDATION CHECKLIST FOR GENERAL CHEMISTRY

General Chemistry: SM4500-H+ B, SM2540C,	Rep	orted	Perfor Accep	mance otable	Not Required	
USEPA 300.0	No	Yes	No	Yes	Required	
Miscellaneous Instrumentation						
Tier II Validation						
Holding times		х		Х		
Reporting limits (units)		х		Х		
Blanks						
A. Method Blanks		х		Х		
B. Equipment 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		
Field/Lab Duplicate (RPD)		Х		Х		
Dilution Factor		Х		Х		
Moisture Content	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 reporting limit (RL) of 1 pCi/L.

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 minimum detectable concentration (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  $_{MethodBlank} = \frac{|Sample - Blank|}{\sqrt{(U_{Sample})^2 + (U_{Blank})^2}}$ 

Where:

 $U_{Sample}$  = uncertainty of the sample  $U_{Blank}$  = uncertainty of the blank Sample = concentration of isotope in sample Blank = concentration of isotope in blank

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

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

Radium-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 < +/-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.

# 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.

Laboratory duplicate analysis was not performed using a sample from this SDG.

# 4. Field Duplicate Analysis

The field duplicate sample analysis is used to assess the overall precision of the field sampling procedures and analytical method. For results greater than five times the MDC, a control limit of 35 percent for water matrices is applied to the RPD between the parent and field duplicate sample results. If the parent and field duplicate sample results are less than five times the MDC, for water matrices a control limit of two times the MDC is applied to the difference between the results.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD	
	Radium-226	2.70 ± 0.530	2.47 ± 0.489	8.9%	
PZ-37D / DUP-1	Radium-228	2.66 ± 0.740	1.70 ± 0.569		
	Total Radium	5.36 ± 1.27	4.17 ± 1.06	AU	

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

Notes:

AC = Acceptable

The differences in the results between the parent sample PZ-37D and field duplicate sample 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.

#### DATA REVIEW REPORT

# 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. If either one of these criteria is true, the sample result is considered "non-detect".

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

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

• FB-1 and EB-1 - Radium-226, Radium-228, and total Radium

### 8. System Performance and Overall Assessment

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

# DATA REVIEW REPORT

# DATA VALIDATION CHECKLIST FOR RADIOLOGICALS

RADIOLOGICALS: SW-846 9315/9320	Repo	orted	Perfor Acce	mance ptable	Not	
	No	Yes	No	Yes	Required	
Gas-Flow Proportional System						
Tier II Validation						
Holding Times		Х		Х		
Activity, +/- uncertainty, MDC/MDA		Х		Х		
Blanks						
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)		Х		Х		
Laboratory Control Sample Duplicate (LCSD)		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	
Field/Lab Duplicate (RPD)		Х		Х		

Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE:

knnifer Ainger

DATE: July 20, 2021

PEER REVIEW: Dennis Capria

DATE: August 6, 2021

# CHAIN OF CUSTODY / DATA QUALIFIER SUMMARY TABLE



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Page 16 of 18



SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92538831				No	qualifie	rs assigned	
92538834	PZ-37D	SW846 6020B	Antimony	0.0030	mg/L	UB	Blank contamination
		EPA 300.0	Sulfate	178	mg/L	J	MS %R <lcl, %r="" <lcl<="" msd="" td=""></lcl,>
	DUP-1	SW846 6020B	Antimony	0.0030	mg/L	UB	Blank contamination

### Abbreviations:

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

# Qualifiers:

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

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Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

May 21, 2021

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

RE: Project: YATES Pace Project No.: 92538834

#### Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on May 14, 2021. 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,

Kein Stury

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR Lauren Coker, Georgia Pwer Geoffrey Gay, ARCADIS - Atlanta Kristen Jurinko Kelley Sharpe, ARCADIS - Atlanta Alex Simpson, Arcadis Samantha Thomas Maribel Vital




Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

#### CERTIFICATIONS

Project: YATES Pace Project No.: 92538834

#### Pace Analytical Services Charlotte

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

#### Pace Analytical Services Asheville

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

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

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

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



## SAMPLE SUMMARY

Project: YATES Pace Project No.: 92538834

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92538834001	PZ-37D	Water	05/13/21 12:30	05/14/21 09:30
92538834002	FB-1	Water	05/13/21 11:30	05/14/21 09:30
92538834003	EB-1	Water	05/13/21 18:30	05/14/21 09:30
92538834004	DUP-1	Water	05/13/21 00:00	05/14/21 09:30



## SAMPLE ANALYTE COUNT

Project:	YATES			
Pace Project No	.: 92538834			
Lab ID	Sample ID	Method	Analysts	Analytes Reported
92538834001	PZ-37D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92538834002	FB-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92538834003	EB-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92538834004	DUP-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	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: YATES

Pace Project No.: 92538834

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92538834001	PZ-37D					
	Performed by	CUSTOME R			05/14/21 14:40	
	рН	7.79	Std. Units		05/14/21 14:40	
EPA 6010D	Calcium	68.3	mg/L	1.0	05/18/21 16:27	
EPA 6020B	Antimony	0.00052J	mg/L	0.0030	05/19/21 14:44	В
EPA 6020B	Barium	0.015	mg/L	0.0050	05/19/21 14:44	
EPA 6020B	Boron	1.3	mg/L	0.040	05/19/21 14:44	
EPA 6020B	Lead	0.000049J	mg/L	0.0010	05/19/21 14:44	
EPA 6020B	Lithium	0.011J	mg/L	0.030	05/19/21 14:44	
EPA 6020B	Molybdenum	0.0042J	mg/L	0.010	05/19/21 14:44	
SM 2540C-2011	Total Dissolved Solids	381	mg/L	10.0	05/19/21 08:19	
EPA 300.0 Rev 2.1 1993	Chloride	4.0	mg/L	1.0	05/18/21 01:17	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	05/18/21 01:17	M1
EPA 300.0 Rev 2.1 1993	Sulfate	178	mg/L	3.0	05/18/21 15:11	M1
92538834002	FB-1					
EPA 6020B	Antimony	0.0019J	mg/L	0.0030	05/19/21 15:06	В
EPA 6020B	Boron	0.0092J	mg/L	0.040	05/19/21 15:06	
92538834003	EB-1					
EPA 6020B	Antimony	0.00067J	mg/L	0.0030	05/19/21 15:12	В
EPA 6020B	Boron	0.0052J	mg/L	0.040	05/19/21 15:12	
92538834004	DUP-1					
EPA 6010D	Calcium	71.6	mg/L	1.0	05/18/21 17:24	
EPA 6020B	Antimony	0.00044J	mg/L	0.0030	05/19/21 15:18	В
EPA 6020B	Barium	0.015	mg/L	0.0050	05/19/21 15:18	
EPA 6020B	Boron	1.2	mg/L	0.040	05/19/21 15:18	
EPA 6020B	Lead	0.000040J	mg/L	0.0010	05/19/21 15:18	
EPA 6020B	Lithium	0.011J	mg/L	0.030	05/19/21 15:18	
EPA 6020B	Molybdenum	0.0040J	mg/L	0.010	05/19/21 15:18	
SM 2540C-2011	Total Dissolved Solids	383	mg/L	10.0	05/19/21 08:19	
EPA 300.0 Rev 2.1 1993	Chloride	3.9	mg/L	1.0	05/18/21 02:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	05/18/21 02:24	
EPA 300.0 Rev 2.1 1993	Sulfate	154	mg/L	3.0	05/18/21 15:56	



Pace Project No.:         92538834           Sample:         PZ-37D         Lab ID:         92538834001         Collected:         05/13/21         12:30         Received:         05/14/21         09:30         Matrix:         Water           Parameters         Results         Units         Limit         MDL         DF         Prepared         Analyzed         CAS           Field Data         Analytical Method: Pace Analytical Services - Charlotte         D         DF         Prepared         Analyzed         CAS           Performed by         CUSTOME R         1         05/14/21         14:40         O           G010D ATL ICP         Analytical Method: EPA 6010D         Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA         Calcium         68.3         mg/L         1.0         0.13         1         05/18/21         16:27         7440-7           G020 MET ICPMS         Analytical Method: EPA 6020B         Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA         O         0.00052J         mg/L         0.0030         0.00028         1         05/18/21         13:16         05/19/21         14:44         7440-3           Antimony         0.0052J         mg/L         0.0050         0.00078         1         05/18/	
Sample:         PZ-37D         Lab ID:         92538834001         Collected:         05/13/21         12:30         Received:         05/14/21         09:30         Matrix:         Water           Parameters         Results         Units         Limit         MDL         DF         Prepared         Analyzed         CAS           Field Data         Analytical Method: Pace Analytical Services - Charlotte         P         Prepared         Analyzed         CAS           Performed by         CUSTOME PH         1         05/14/21         05/14/21         14:40           6010D ATL ICP         Analytical Method: EPA 6010D         Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA         05/18/21         10:27         7440-7           6020 MET ICPMS         Analytical Method: EPA 6020B         Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA         05/18/21         13:16         05/19/21         14:44         7440-3           Antimony         0.00052J         mg/L         0.0030         0.00028         1         05/18/21         13:16         05/19/21         14:44         7440-3           Arsenic         ND         mg/L         0.0030         0.00028         1         05/18/21         13:16         05/19/21         14:44	
ParametersResultsUnitsReport LimitMDLDFPreparedAnalyzedCASField DataAnalytical Method: Pace Analytical Services - CharlottePerformed byCUSTOME R105/14/21 14:40pH7.79Std. Units105/14/21 14:406010D ATL ICPAnalytical Method: EPA 6010D Pace Analytical Services - Peachtree Corners, GAEPA 3010A Pace Analytical Services - Peachtree Corners, GACalcium68.3mg/L1.00.13105/18/21 10:0705/18/21 16:277440-76020 MET ICPMSAnalytical Method: EPA 6020B Pace Analytical Services - Peachtree Corners, GAAnalytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GAAntimony0.00052Jmg/L0.00300.00028105/18/21 13:1605/19/21 14:447440-3ArsenicNDmg/L0.00500.00078105/18/21 13:1605/19/21 14:447440-3Barium0.015mg/L0.00500.00071105/18/21 13:1605/19/21 14:447440-3	er
ParametersResultsUnitsLimitMDLDFPreparedAnalyzedCASField DataAnalytical Method: Pace Analytical Services - CharlottePerformed byCUSTOME R105/14/21 14:40pH7.79Std. Units105/14/21 14:406010D ATL ICPAnalytical Method: EPA 6010D Pace Analytical Services - Peachtree Corners, GAEPA 3010A Pace Analytical Services - Peachtree Corners, GACalcium68.3mg/L1.00.13105/18/21 10:0705/18/21 16:277440-76020 MET ICPMSAnalytical Method: EPA 6020B Pace Analytical Services - Peachtree Corners, GAAnalytical Services - Peachtree Corners, GAAntimony0.00052Jmg/L0.00300.00028105/18/21 13:1605/19/21 14:447440-3ArsenicNDmg/L0.00500.00078105/18/21 13:1605/19/21 14:447440-3Barium0.0155mg/L0.00500.00078105/18/21 13:1605/19/21 14:447440-3	
Field Data       Analytical Method: Pace Analytical Services - Charlotte       1       05/14/21 14:40         Performed by       CUSTOME R       1       05/14/21 14:40       1         pH       7.79       Std. Units       1       05/14/21 14:40       1         6010D ATL ICP       Analytical Method: EPA 6010D       Preparation Method: EPA 3010A       Pace Analytical Services - Peachtree Corners, GA       1       05/18/21 10:07       05/18/21 16:27       7440-7         Calcium       68.3       mg/L       1.0       0.13       1       05/18/21 10:07       05/18/21 16:27       7440-7         6020 MET ICPMS       Analytical Method: EPA 6020B       Preparation Method: EPA 3005A       Pace Analytical Services - Peachtree Corners, GA       1       05/18/21 13:16       05/19/21 14:44       7440-3         Antimony       0.00052J       mg/L       0.0030       0.00028       1       05/18/21 13:16       05/19/21 14:44       7440-3         Arsenic       ND       mg/L       0.0050       0.00071       1       05/18/21 13:16       05/19/21 14:44       7440-3	No. Qual
Pace Analytical Services - Charlotte         Performed by       CUSTOME R       1       05/14/21 14:40         pH       7.79       Std. Units       1       05/14/21 14:40         6010D ATL ICP       Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA       EPA 3010A         Calcium       68.3       mg/L       1.0       0.13       1       05/18/21 10:07       05/18/21 16:27       7440-7         6020 MET ICPMS       Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA       Image: Corners, GA       Image: Corners, GA         Antimony       0.00052J       mg/L       0.0030       0.00028       1       05/18/21 13:16       05/19/21 14:44       7440-3         Arsenic       ND       mg/L       0.0050       0.00078       1       05/18/21 13:16       05/19/21 14:44       7440-3         Out       mg/L       0.0050       0.00071       1       05/18/21 13:16       05/19/21 14:44       7440-3	
Performed by       CUSTOME R       O5/14/21 14:40       O5/14/21 14:40         pH       7.79       Std. Units       1       05/14/21 14:40       05/14/21 14:40         6010D ATL ICP       Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA       I       05/18/21 10:07       05/18/21 16:27       7440-7         6020 MET ICPMS       Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA       I       05/18/21 10:07       05/18/21 16:27       7440-7         Antimony       0.00052J       mg/L       0.0030       0.0028       1       05/18/21 13:16       05/19/21 14:44       7440-3         Antimony       0.015       mg/L       0.0050       0.00078       1       05/18/21 13:16       05/19/21 14:44       7440-3         Barium       0.015       mg/L       0.0050       0.00071       1       05/18/21 13:16       05/19/21 14:44       7440-3	
pH       7.79       Std. Units       1       05/14/21 14:40         6010D ATL ICP       Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA       EPA 3010A         Calcium       68.3       mg/L       1.0       0.13       1       05/18/21 10:07       05/18/21 16:27       7440-7         6020 MET ICPMS       Analytical Method: EPA 6020B       Preparation Method: EPA 3005A       Pace Analytical Services - Peachtree Corners, GA         Antimony       0.00052J       mg/L       0.0030       0.00028       1       05/18/21 13:16       05/19/21 14:44       7440-3         Arsenic       ND       mg/L       0.0050       0.00071       1       05/18/21 13:16       05/19/21 14:44       7440-3	
6010D ATL ICP       Analytical Method: EPA 6010D       Preparation Method: EPA 3010A         Pace Analytical Services - Peachtree Corners, GA       Calcium       68.3       mg/L       1.0       0.13       1       05/18/21 10:07       05/18/21 16:27       7440-7         6020 MET ICPMS       Analytical Method: EPA 6020B       Preparation Method: EPA 3005A       Pace Analytical Services - Peachtree Corners, GA         Antimony       0.00052J       mg/L       0.0030       0.00028       1       05/18/21 13:16       05/19/21 14:44       7440-3         Arsenic       ND       mg/L       0.0050       0.00071       1       05/18/21 13:16       05/19/21 14:44       7440-3	
Pace Analytical Services - Peachtree Corners, GA           Calcium         68.3         mg/L         1.0         0.13         1         05/18/21 10:07         05/18/21 16:27         7440-7           6020 MET ICPMS         Analytical Method: EPA 6020B         Preparation Method: EPA 3005A         Pace Analytical Services - Peachtree Corners, GA           Antimony         0.00052J         mg/L         0.0030         0.00028         1         05/18/21 13:16         05/19/21 14:44         7440-3           Arsenic         ND         mg/L         0.0050         0.00078         1         05/18/21 13:16         05/19/21 14:44         7440-3           Barium         0.015         mg/L         0.0050         0.00071         1         05/18/21 13:16         05/19/21 14:44         7440-3	
Calcium       68.3       mg/L       1.0       0.13       1       05/18/21 10:07       05/18/21 16:27       7440-7         6020 MET ICPMS       Analytical Method: EPA 6020B       Preparation Method: EPA 3005A       EPA 3005A         Pace Analytical Services - Peachtree Corners, GA         Antimony       0.00052J       mg/L       0.0030       0.00028       1       05/18/21 13:16       05/19/21 14:44       7440-3         Arsenic       ND       mg/L       0.0050       0.00071       1       05/18/21 13:16       05/19/21 14:44       7440-3	
6020 MET ICPMS         Analytical Method: EPA 6020B         Preparation Method: EPA 3005A           Pace Analytical Services - Peachtree Corners, GA           Antimony         0.00052J         mg/L         0.0030         0.00028         1         05/18/21 13:16         05/19/21 14:44         7440-3           Arsenic         ND         mg/L         0.0050         0.00078         1         05/18/21 13:16         05/19/21 14:44         7440-3           Barium         0.015         mg/L         0.0050         0.00071         1         05/18/21 13:16         05/19/21 14:44         7440-3	-2
Descention         Pace Analytical Services - Peachtree Corners, GA           Antimony         0.00052J         mg/L         0.0030         0.00028         1         05/18/21         13:16         05/19/21         14:44         7440-3           Arsenic         ND         mg/L         0.0050         0.00078         1         05/18/21         13:16         05/19/21         14:44         7440-3           Barium         0.015         mg/L         0.0050         0.00071         1         05/18/21         13:16         05/19/21         14:44         7440-3	
Antimony         0.00052J         mg/L         0.0030         0.00028         1         05/18/21         13:16         05/19/21         14:44         7440-3           Arsenic         ND         mg/L         0.0050         0.00078         1         05/18/21         13:16         05/19/21         14:44         7440-3           Barium         0.015         mg/L         0.0050         0.00078         1         05/18/21         13:16         05/19/21         14:44         7440-3	
Arsenic         ND         mg/L         0.0050         0.00078         1         05/18/21         13:16         05/19/21         14:44         7440-3           Barium         0.015         mg/L         0.0050         0.00078         1         05/18/21         13:16         05/19/21         14:44         7440-3	-0 B
Barium 0,015 mg/l 0,0050 0,00071 1, 05/18/21 13:16, 05/19/21 14:44, 7440-3	-2
	-3
Beryllium ND mg/L 0.00050 0.000046 1 05/18/21 13:16 05/19/21 14:44 7440-4	-7
Boron <b>1.3</b> mg/L 0.040 0.0052 1 05/18/21 13:16 05/19/21 14:44 7440-4	-8
Cadmium ND mg/L 0.00050 0.00012 1 05/18/21 13:16 05/19/21 14:44 7440-4	-9
Chromium ND mg/L 0.0050 0.00055 1 05/18/21 13:16 05/19/21 14:44 7440-4	-3
Cobalt ND mg/L 0.0050 0.00038 1 05/18/21 13:16 05/19/21 14:44 7440-4	-4
Lead 0.000049J mg/L 0.0010 0.000036 1 05/18/21 13:16 05/19/21 14:44 7439-9	-1
Lithium 0.011J mg/L 0.030 0.00081 1 05/18/21 13:16 05/19/21 14:44 7439-9	-2
Molybdenum 0.0042J mg/L 0.010 0.00069 1 05/18/21 13:16 05/19/21 14:44 7439-9	-7
Selenium ND mg/L 0.0050 0.0016 1 05/18/21 13:16 05/19/21 14:44 7782-4	-2
Thallium         ND         mg/L         0.0010         0.00014         1         05/18/21         13:16         05/19/21         14:44         7440-2	-0
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A	
Pace Analytical Services - Peachtree Corners, GA	
Mercury ND mg/L 0.00020 0.000078 1 05/18/21 14:00 05/19/21 11:03 7439-9	-6
2540C Total Dissolved Solids Analytical Method: SM 2540C-2011	
Pace Analytical Services - Peachtree Corners, GA	
Total Dissolved Solids         381         mg/L         10.0         10.0         1         05/19/21         08:19	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0 Rev 2.1 1993	
Pace Analytical Services - Asheville	
Chloride <b>4.0</b> ma/L 1.0 0.60 1 05/18/21 01:17 16887-	0-6
Fluoride <b>0.12</b> mg/L 0.10 0.050 1 05/18/21 01:17 16984-	8-8 M1
Sulfate <b>178</b> mg/L 3.0 1.5 3 05/18/21 15:11 14808-	9-8 M1



Project:	YATES
Pace Project No.:	92538834

Sample: FB-1	Lab ID:	92538834002	Collecte	ed: 05/13/2	1 11:30	Received: 05/	14/21 09:30 Ma	atrix: Water	
_	_		Report			_			
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Me	thod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	GA				
Calcium	ND	mg/L	1.0	0.13	1	05/18/21 10:07	05/18/21 16:37	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Me	thod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, (	GΑ				
Antimony	0.0019J	mg/L	0.0030	0.00028	1	05/18/21 13:16	05/19/21 15:06	7440-36-0	В
Arsenic	ND	mg/L	0.0050	0.00078	1	05/18/21 13:16	05/19/21 15:06	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	05/18/21 13:16	05/19/21 15:06	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	05/18/21 13:16	05/19/21 15:06	7440-41-7	
Boron	0.0092J	mg/L	0.040	0.0052	1	05/18/21 13:16	05/19/21 15:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	05/18/21 13:16	05/19/21 15:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	05/18/21 13:16	05/19/21 15:06	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	05/18/21 13:16	05/19/21 15:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	05/18/21 13:16	05/19/21 15:06	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	05/18/21 13:16	05/19/21 15:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	05/18/21 13:16	05/19/21 15:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	05/18/21 13:16	05/19/21 15:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	05/18/21 13:16	05/19/21 15:06	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Pre	paration Met	thod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, (	GA				
Mercury	ND	mg/L	0.00020	0.000078	1	05/18/21 14:00	05/19/21 11:12	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2011						
	Pace Ana	lytical Services	- Peachtre	e Corners, (	GΑ				
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		05/19/21 08:19		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville	•					
Chloride	ND	mg/L	1.0	0.60	1		05/18/21 01:57	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		05/18/21 01:57	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		05/18/21 01:57	14808-79-8	



Project:	YATES									
Pace Project No.:	92538834									
Sample: EB-1		Lab ID:	92538834003	Collected	d: 05/13/2 <sup>,</sup>	1 18:30	Received: 05/	14/21 09:30 Ma	atrix: Water	
				Report						
Parame	ters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical	Method: EPA 6	010D Prep	aration Met	thod: EF	PA 3010A			
		Pace Anal	ytical Services	- Peachtree	Corners, C	GΑ				
Calcium		ND	mg/L	1.0	0.13	1	05/18/21 10:07	05/18/21 16:41	7440-70-2	
6020 MET ICPMS		Analytical	Method: EPA 6	020B Prep	aration Met	thod: EF	PA 3005A			
		Pace Anal	ytical Services	- Peachtree	Corners, C	ΞA				
Antimony		0 00067.1	ma/l	0.0030	0 00028	1	05/18/21 13.16	05/19/21 15.12	7440-36-0	в
Arsenic			mg/L	0.0050	0.00020	1	05/18/21 13:16	05/19/21 15:12	7440-38-2	D
Barium		ND	mg/L	0.0050	0.00071	1	05/18/21 13:16	05/19/21 15:12	7440-39-3	
Bervllium		ND	ma/L	0.00050	0.000046	1	05/18/21 13:16	05/19/21 15:12	7440-41-7	
Boron		0.0052J	ma/L	0.040	0.0052	1	05/18/21 13:16	05/19/21 15:12	7440-42-8	
Cadmium		ND	ma/L	0.00050	0.00012	1	05/18/21 13:16	05/19/21 15:12	7440-43-9	
Chromium		ND	mg/L	0.0050	0.00055	1	05/18/21 13:16	05/19/21 15:12	7440-47-3	
Cobalt		ND	mg/L	0.0050	0.00038	1	05/18/21 13:16	05/19/21 15:12	7440-48-4	
Lead		ND	mg/L	0.0010	0.000036	1	05/18/21 13:16	05/19/21 15:12	7439-92-1	
Lithium		ND	mg/L	0.030	0.00081	1	05/18/21 13:16	05/19/21 15:12	7439-93-2	
Molybdenum		ND	mg/L	0.010	0.00069	1	05/18/21 13:16	05/19/21 15:12	7439-98-7	
Selenium		ND	mg/L	0.0050	0.0016	1	05/18/21 13:16	05/19/21 15:12	7782-49-2	
Thallium		ND	mg/L	0.0010	0.00014	1	05/18/21 13:16	05/19/21 15:12	7440-28-0	
7470 Mercury		Analytical	Method: EPA 7	470A Prep	aration Met	hod: EP	A 7470A			
		Pace Anal	ytical Services	- Peachtree	Corners, C	GΑ				
Mercury		ND	mg/L	0.00020	0.000078	1	05/18/21 14:00	05/19/21 11:15	7439-97-6	
2540C Total Dissol	ved Solids	Analytical	Method: SM 25	540C-2011						
		Pace Anal	ytical Services	- Peachtree	Corners, C	GΑ				
Total Dissolved Solid	ds	ND	mg/L	10.0	10.0	1		05/19/21 08:19		
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		05/18/21 02:11	16887-00-6	
Fluoride		ND	mg/L	0.10	0.050	1		05/18/21 02:11	16984-48-8	
Sulfate		ND	mg/L	1.0	0.50	1		05/18/21 02:11	14808-79-8	



Project: YATES									
Pace Project No.: 92538834									
Sample: DUP-1	Lab ID: 9	2538834004	Collecte	ed: 05/13/2	1 00:00	Received: 05/	14/21 09:30 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical N	lethod: EPA 6	010D Pre	paration Me	thod: Ef	PA 3010A			
	Pace Analyt	ical Services	- Peachtre	e Corners, (	GA				
Calcium	71.6	mg/L	1.0	0.13	1	05/18/21 10:07	05/18/21 17:24	7440-70-2	
6020 MET ICPMS	Analytical M	lethod: EPA 6	020B Pre	paration Met	thod: EF	PA 3005A			
	Pace Analyt	ical Services	- Peachtre	e Corners, (	GΑ				
Antimony	0.00044J	mg/L	0.0030	0.00028	1	05/18/21 13:16	05/19/21 15:18	7440-36-0	В
Arsenic	ND	mg/L	0.0050	0.00078	1	05/18/21 13:16	05/19/21 15:18	7440-38-2	
Barium	0.015	mg/L	0.0050	0.00071	1	05/18/21 13:16	05/19/21 15:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	05/18/21 13:16	05/19/21 15:18	7440-41-7	
Boron	1.2	mg/L	0.040	0.0052	1	05/18/21 13:16	05/19/21 15:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	05/18/21 13:16	05/19/21 15:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	05/18/21 13:16	05/19/21 15:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	05/18/21 13:16	05/19/21 15:18	7440-48-4	
Lead	0.000040J	mg/L	0.0010	0.000036	1	05/18/21 13:16	05/19/21 15:18	7439-92-1	
Lithium	0.011J	mg/L	0.030	0.00081	1	05/18/21 13:16	05/19/21 15:18	7439-93-2	
Molybdenum	0.0040J	mg/L	0.010	0.00069	1	05/18/21 13:16	05/19/21 15:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	05/18/21 13:16	05/19/21 15:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	05/18/21 13:16	05/19/21 15:18	7440-28-0	
7470 Mercury	Analytical M	lethod: EPA 7	470A Pre	paration Met	hod: EF	PA 7470A			
	Pace Analyt	ical Services	- Peachtre	e Corners, (	GΑ				
Mercury	ND	mg/L	0.00020	0.000078	1	05/18/21 14:00	05/19/21 11:24	7439-97-6	
2540C Total Dissolved Solids	Analytical M	lethod: SM 25	540C-2011						
	Pace Analyt	ical Services	- Peachtre	e Corners, (	ЗA				
Total Dissolved Solids	383	mg/L	10.0	10.0	1		05/19/21 08:19		
300.0 IC Anions 28 Days	Analytical N	lethod: EPA 3	00.0 Rev 2	2.1 1993					
	Pace Analyt	ical Services	- Asheville						
Chloride	3.9	mg/L	1.0	0.60	1		05/18/21 02:24	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.050	1		05/18/21 02:24	16984-48-8	
Sulfate	154	mg/L	3.0	1.5	3		05/18/21 15:56	14808-79-8	
	-	0		-	-				

**REPORT OF LABORATORY ANALYSIS** 

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Project:	YATES											
Pace Project No.:	92538834											
QC Batch:	621064		Anal	ysis Metho	od:	EPA 6010D						
QC Batch Method:	EPA 3010A		Anal	ysis Descr	ription:	6010D ATL						
			Labo	oratory:		Pace Analyt	ical Servic	es - Peach	tree Corne	rs, GA		
Associated Lab Sa	mples: 92538834	001, 9253883400	2, 9253883	34003, 925	538834004							
METHOD BLANK:	3267639			Matrix: V	Vater							
Associated Lab Sa	mples: 92538834	001, 9253883400	2, 9253883	34003, 925	538834004							
			Bla	nk	Reporting							
Para	meter	Units	Res	ult	Limit	MDI	-	Analyzed	Qı	ualifiers		
Calcium		mg/L		ND	1	.0	0.13 0	5/18/21 15:	25			
LABORATORY CO	NTROL SAMPLE:	3267640										
			Spike	L	CS	LCS	% R	lec				
Para	meter	Units	Conc.	Re	sult	% Rec	Lim	its	Qualifiers			
Calcium		mg/L		1	1.1	107	7	80-120		_		
MATRIX SPIKE & I	MATRIX SPIKE DUF	PLICATE: 3267	641		326764	2						
			MS	MSD								
		92538933001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	er Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Calcium	mg/L	. 33100 ug/L	1	1	34.8	33.8	167	75	75-125	3	20	M1

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



Project:	YATES	6						
Pace Project No.:	92538	834						
QC Batch:	6211	35	Analysis Meth	nod:	EPA 6020B			
QC Batch Method:	EPA	3005A	Analysis Desc	cription:	6020 MET			
			Laboratory:		Pace Analytical Se	rvices - Peachtree	Corners, GA	
Associated Lab Sar	mples:	92538834001, 92538834002,	92538834003, 92	2538834004	-			
METHOD BLANK:	32680	34	Matrix:	Water				
Associated Lab Sar	mples:	92538834001, 92538834002,	92538834003, 92	2538834004				
			Blank	Reporting				
Parar	neter	Units	Result	Limit	MDL	Analyzed	Qualifiers	
Antimony		mg/L	0.00070J	0.003	0 0.00028	05/19/21 14:26		
Arsenic		mg/L	ND	0.005	0 0.00078	05/19/21 14:26		
Barium		mg/L	ND	0.005	0 0.00071	05/19/21 14:26		
Beryllium		mg/L	ND	0.0005	0 0.000046	05/19/21 14:26		
Boron		mg/L	ND	0.04	0 0.0052	05/19/21 14:26		
Cadmium		mg/L	ND	0.0005	0 0.00012	05/19/21 14:26		
Chromium		mg/L	ND	0.005	0 0.00055	05/19/21 14:26		
Cobalt		mg/L	ND	0.005	0 0.00038	05/19/21 14:26		
Lead		mg/L	ND	0.001	0 0.000036	05/19/21 14:26		
Lithium		mg/L	ND	0.03	0 0.00081	05/19/21 14:26		
Molybdenum		mg/L	ND	0.01	0 0.00069	05/19/21 14:26		
Selenium		mg/L	ND	0.005	0 0.0016	05/19/21 14:26		
Thallium		mg/L	ND	0.001	0 0.00014	05/19/21 14:26		

#### LABORATORY CONTROL SAMPLE: 3268035

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Antimony	mg/L	0.1	0.10	105	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SP	ICATE: 3268	036		3268037								
		92538834001	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Мах	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Antimony Arsenic	mg/L mg/L	0.00052J ND	0.1 0.1	0.1 0.1	0.10 0.10	0.11 0.10	103 101	105 102	75-125 75-125	2 1	20 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 Pace Project No.: 92538834

MATRIX SPIKE & MATRIX SPIK	E DUPL	ICATE: 3268	036 MS	MSD	3268037							
		92538834001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Barium	mg/L	0.015	0.1	0.1	0.11	0.11	95	98	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.091	0.091	91	91	75-125	0	20	
Boron	mg/L	1.3	1	1	2.5	2.4	118	114	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	0.098	0.10	97	100	75-125	3	20	
Cobalt	mg/L	ND	0.1	0.1	0.098	0.10	98	102	75-125	4	20	
Lead	mg/L	0.000049J	0.1	0.1	0.096	0.097	96	97	75-125	1	20	
Lithium	mg/L	0.011J	0.1	0.1	0.10	0.10	91	92	75-125	1	20	
Molybdenum	mg/L	0.0042J	0.1	0.1	0.10	0.11	99	104	75-125	5	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.096	0.097	96	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											
Pace Project No.:	92538834											
QC Batch:	621085		Analy	sis Metho	d:	EPA 7470A						
QC Batch Method:	EPA 7470A		Analy	sis Descri	ption:	7470 Mercu	iry					
			Labor	atory:		Pace Analy	tical Servi	ces - Peach	tree Corne	ers, GA		
Associated Lab Sa	mples: 92538834	001, 9253883400	02, 92538834	4003, 925	38834004							
METHOD BLANK:	3267704			Matrix: W	ater							
Associated Lab Sa	mples: 92538834	001, 9253883400	02, 92538834	4003, 925	38834004							
			Blan	k	Reporting							
Para	meter	Units	Resu	ılt	Limit	MD	L	Analyzed	Q	ualifiers		
Mercury		mg/L		ND	0.0002	20 0.0	00078	05/19/21 10:	:53			
LABORATORY CO	NTROL SAMPLE:	3267705										
			Spike	LC	S	LCS	%	Rec				
Para	meter	Units	Conc.	Res	sult	% Rec	Lir	nits	Qualifiers			
Mercury		mg/L	0.002	5	0.0024	9	6	80-120		_		
MATRIX SPIKE & M	MATRIX SPIKE DUP	PLICATE: 3267	706		326770	7						
			MS	MSD					_			
Demonstra		92538834001	Spike	Spike	MS	MSD	MS	MSD	% Rec	000	Max	0
Paramete		S Result	Conc.	Conc.	Result	Result	% Rec	% Rec	LIMITS	KPD	KPD	Qual
Mercury			0.0005	0.0005	0 0000	0 0004	0	n ne	75 405	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:	YATES						
Pace Project No.:	92538834						
QC Batch:	621303		Analysis M	ethod:	SM 2540C-20	11	
QC Batch Method:	SM 2540C-20	11	Analysis De	escription:	2540C Total D	issolved Solids	
			Laboratory	:	Pace Analytic	al Services - Pe	achtree Corners, G
Associated Lab Sa	mples: 925388	34001, 925388340	02, 92538834003,	92538834004			
METHOD BLANK:	3269201		Matrix	x: Water			
Associated Lab Sa	mples: 925388	34001, 925388340	02, 92538834003,	92538834004			
			Blank	Reporting			
Para	meter	Units	Result	Limit	MDL	Analy	zed Qualifie
Total Dissolved Sol	ids	mg/L	ND	D 10.	.0	10.0 05/19/21	08:18
LABORATORY CO	NTROL SAMPLE	: 3269202					
			Spike	LCS	LCS	% Rec	
Para	meter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Total Dissolved Sol	ids	mg/L	400	397	99	90-111	
SAMPLE DUPLICA	TE: 3269203						
_			92538698003	Dup		Max	
Para	meter	Units	Result	Result	RPD	RPD	Qualifiers
Total Dissolved Sol	ids	mg/L	56.0	) 71.	.0	24	10 D6
SAMPLE DUPLICA	TE: 3269204						
_			92539203003	Dup		Max	o ""
Para	meter	Units	Result	Result	RPD	RPD	Qualifiers
Total Dissolved Sol	ids	mg/L	76.0	96.	.0	23	10 D6

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												
Pace Project No.:	925388	34											
QC Batch:	62093	8		Anal	ysis Metho	d:	EPA 300.0	Rev 2.1	1993				
QC Batch Method:	EPA 3	00.0 Rev 2.	1 1993	Analy	ysis Descri	ption:	300.0 IC Ar	nions					
				Labo	oratory:		Pace Analy	tical Serv	/ices - Ashev	ille			
Associated Lab Sa	imples:	925388340	01, 9253883400	02, 9253883	34003, 925	38834004							
METHOD BLANK:	326715	5			Matrix: W	ater							
Associated Lab Sa	mples:	925388340	01, 9253883400	02, 9253883	34003, 925	38834004							
				Blai	nk	Reporting							
Para	meter		Units	Res	ult	Limit	MD	L	Analyzed	Qı	ualifiers		
Chloride			mg/L		ND	1	.0	0.60	05/17/21 21	:42			
Fluoride			mg/L		ND	0.1	0	0.050	05/17/21 21	:42			
Sulfate			mg/L		ND	1	.0	0.50	05/17/21 21:	:42			
LABORATORY CC	ONTROL S	SAMPLE:	3267156										
				Spike	LC	S	LCS	%	Rec				
Para	meter		Units	Conc.	Res	sult	% Rec	Li	mits	Qualifiers			
Chloride			mg/L	5	50	49.6	9	9	90-110				
Fluoride			mg/L	2	.5	2.4	9	8	90-110				
Sulfate			mg/L	5	50	48.3	9	7	90-110				
MATRIX SPIKE & I	MATRIX S		LICATE: 3267	'157		326715	8						
				MS	MSD								
			92538495031	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	ər	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride		mg/L	ND	50	50	50.6	50.6	10	01 101	90-110	0	10	
Fluoride		mg/L	ND	2.5	2.5	2.5	2.5	ç	99 98	90-110	0	10	
Sulfate		mg/L	ND	50	50	49.2	49.1	ę	98 98	90-110	0	10	
MATRIX SPIKE &	MATRIX S		LICATE: 3267	'159		326716	0						
				MS	MSD								
_			92538834001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride		mg/L	4.0	50	50	54.1	55.3	10	00 103	90-110	2	10	
Fluoride		mg/L	0.12	2.5	2.5	2.3	2.4	8	39 90	90-110	2	10	M1
Sulfate		mg/L	178	50	50	206	199	Ę	56 42	90-110	4	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.

# **REPORT OF LABORATORY ANALYSIS**

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#### QUALIFIERS

Project: YATES Pace Project No.: 92538834

#### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

**RPD** - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

#### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

- D6 The precision between the sample and sample duplicate exceeded laboratory control limits.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.



## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES Pace Project No.: 92538834

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92538834001	PZ-37D				
92538834001	PZ-37D	EPA 3010A	621064	EPA 6010D	621124
92538834002	FB-1	EPA 3010A	621064	EPA 6010D	621124
92538834003	EB-1	EPA 3010A	621064	EPA 6010D	621124
92538834004	DUP-1	EPA 3010A	621064	EPA 6010D	621124
92538834001	PZ-37D	EPA 3005A	621135	EPA 6020B	621237
92538834002	FB-1	EPA 3005A	621135	EPA 6020B	621237
92538834003	EB-1	EPA 3005A	621135	EPA 6020B	621237
92538834004	DUP-1	EPA 3005A	621135	EPA 6020B	621237
92538834001	PZ-37D	EPA 7470A	621085	EPA 7470A	621197
92538834002	FB-1	EPA 7470A	621085	EPA 7470A	621197
92538834003	EB-1	EPA 7470A	621085	EPA 7470A	621197
92538834004	DUP-1	EPA 7470A	621085	EPA 7470A	621197
92538834001	PZ-37D	SM 2540C-2011	621303		
92538834002	FB-1	SM 2540C-2011	621303		
92538834003	EB-1	SM 2540C-2011	621303		
92538834004	DUP-1	SM 2540C-2011	621303		
92538834001	PZ-37D	EPA 300.0 Rev 2.1 1993	620938		
92538834002	FB-1	EPA 300.0 Rev 2.1 1993	620938		
92538834003	EB-1	EPA 300.0 Rev 2.1 1993	620938		
92538834004	DUP-1	EPA 300.0 Rev 2.1 1993	620938		

			-		
67	D	ocument	Name:	(scup)	Document Revised: October 28, 2020
Pace Analytical	Sample Con	Document	t No.:	(JSCOR)	Issuing Authority:
	F-C	AR-CS-03	3-Rev.07		Pace Carolinas Quality Office
boratory receiving samples: Asheville Eden Greenwood	I 🗌 Hunters	ville 🗌	Ralei	gh 🗌	Mechanicsville Atlanta Kernersville
Sample Condition Upon Receipt G-COr 9. 01	power			Projec	WO#:92538834
Durier: Fed Ex U		; ::	90	ient	92538834
tody Seal Present? Yes No	Seals Intact?	☐Yes	DNO		Date/Initials Person Examining Contents: 19 5/14
king Material: □Bubble Wrap [ rmometer: □ IR Gun ID: <u>230</u>	Bubble Bags	Avone ce:	e □ 0 wet □	Other Blue	Biological Jissue Frozen?
oler Temp: <u>212</u> Correction Add/Subtra	Factor: ± act (°C) ± 210	0,2	_		Temp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling proce has begun
DA Regulated Soil ( 🔲 N/A, water sample) samples originate in a quarantine zone within th Yes	e United States: C/	A, NY, or S(	C (check m	aps)?	Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes Comments/Discrepancy:
	[]War			1	
Samples Arrived within Hold Time?	Wes			2.	
Short Hold Time Analysis (<72 hr.)? Rush Turn Around Time Requested?	[_]Yes □]Yes	DINO		4.	
Sufficient Volume?				5.	
Correct Containers Used?	Difes			6,	
-Pace Containers Used?	Yes	No	□n/A		
Containers Intact?	<b>V</b> Yes	□No		7.	
Dissolved analysis: Samples Field Filtered?	☐ Yes	DNO	□n/A	8.	
Sample Labels Match COC?	Mes	□No	∐n/a	9.	
-Includes Date/Time/ID/Analysis Matrix:			,		
Headspace in VOA Vials (>5-6mm)? Trip Blank Present?	☐Yes ☐Yes	□No □No		10. 11.	
Trip Blank Custody Seals Present?	Yes	No			
COMMENTS/SAMPLE DISCREPANCY					Field Data Required? 🛛 Yes 🗍 No
				Lo	t ID of split containers:
IENT NOTIFICATION/RESOLUTION					
Person contacted:			Date/1	lime:	
					Deter
Project Manager SCURF Review:					Date:
Project Manager SCURF Review:					Date:

	,																								2000			
			1	Pace	e Ana	lytica	a/			Sam	ple Co	Doci	ion Uj	t Nam pon R nt No	ne: .eceip	eceipt(SCUR) Page 2 of 2 · Issuing Authority:							,					
						-					F	-CAR	-CS-0	33-Re	v.07		Pace Carolinas Quality Office							ce				
c	heck	(ma d an	rk to d wit	p ha	alf of	box	if pl	H an	d/or	dec for	hlori	nati erva	on is tion			Proj	ect #	ŧ [	WC	)#	:9	)2	53	38	83	34		
3	mple	eran es.			the	acce	pran		ange	101	<b>P</b> 1 C 0								PM :	KLH	1		Du	e Da	ate:	05	/28	/21
•	eptio Bott	ns: Vi om	DA, Co half (	oliforr of b	n, TO ox is	to li	and G st ทเ	imb	, DRO, er of	/8015	(wate t <b>les</b>	r) DO	C, LLF	łg					CLIE	NT :	GA	-GA	Pow	er				
	(cl-)	1	1		-		(6<) H	3	served	(c-)		(A) (CI-)			(A)(CI-)						0	Land Statement of the	(		(2)	ls (N/A)		(N/A)
	erved (N/P	/N) pava	erved (N/A	ved (N/A)	рН < 2) (Cl	pH < 2)	ate & NaO	pH > 12) (C	jar Unpre	Inved (N/A)	< 2)	served (N/	pH < 2)	(pH < 2)	NH4CI (N/		(N/A)		(V)	kit (N/A)	as kit (N/A	(del – A/N	(N/A – lab		504 (9.3-9	served via	Is (N/A)	erved vials
	Unpres	Unpres	Unpres	upresei	H2SO4	HNO3 (	ZN Acet	HOEN	d Glass	Unprese	HCI (pH	r Unpre	12504 (	HZSOA	Ambei	(N/A)	25203	N/N) di	PO4 (N	{ <b>}-5035</b>	)/HJ/-(	Plastic	Plastic		(ZHN)	r Unpre	ation vi	Unpres
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Nate: 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.

				ADDITIONAL COMMENTS	SAMPLE ID Che Character per box. (AZ, USI,. Sample Ide must be unique PZ-3TD (0513Z1) EB-01 (0513Z1) DuP-01 (0513Z1) DuP-01 (0513Z1)		isted Due Date	c (770)3F4-6526 Fax	n, GA 30114	ss: 1070 Bridge Mill Ave	any: Georgia Power	n A red Client Information:	Pace Analytical
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Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

June 29, 2021

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

RE: Project: YATES RADS Pace Project No.: 92538831

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on May 14, 2021. 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,

Kein Hung

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR Lauren Coker, Georgia Pwer Geoffrey Gay, ARCADIS - Atlanta Kristen Jurinko Kelley Sharpe, ARCADIS - Atlanta Alex Simpson, Arcadis Samantha Thomas Maribel Vital





Pace Analytical Services, LLC 110 Technology Parkway Peachtree Corners, GA 30092 (770)734-4200

#### CERTIFICATIONS

Project: YATES RADS Pace Project No.: 92538831

#### 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 #: 9526 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 RADS Pace Project No.: 92538831

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92538831001	PZ-37D	Water	05/13/21 12:30	05/14/21 09:30
92538831002	FB-1	Water	05/13/21 11:30	05/14/21 09:30
92538831003	EB-1	Water	05/13/21 18:30	05/14/21 09:30
92538831004	DUP-1	Water	05/13/21 00:00	05/14/21 09:30



## SAMPLE ANALYTE COUNT

Project:	YATES RADS	
Pace Project No .:	92538831	

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92538831001	PZ-37D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92538831002	FB-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92538831003	EB-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92538831004	DUP-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg



# SUMMARY OF DETECTION

Project: YATES RADS

Pace Project No.: 92538831

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92538831001	PZ-37D					
EPA 9315	Radium-226	2.70 ± 0.530 (0.161)	pCi/L		06/25/21 10:34	
EPA 9320	Radium-228	C:83% T:NA 2.66 ± 0.740 (0.762) C:64%	pCi/L		06/07/21 11:16	
Total Radium Calculation	Total Radium	1:78% 5.36 ± 1.27 (0.923)	pCi/L		06/28/21 17:08	
92538831002	FB-1					
EPA 9315	Radium-226	0.0225 ± 0.220 (0.600) C:88% TNA	pCi/L		06/04/21 08:46	
EPA 9320	Radium-228	0.487 ± 0.440 (0.891) C:60%	pCi/L		06/07/21 11:16	
Total Radium Calculation	Total Radium	0.510 ± 0.660 (1.49)	pCi/L		06/21/21 20:12	
92538831003	EB-1					
EPA 9315	Radium-226	-0.0213 ± 0.200 (0.591) C:92% T:NA	pCi/L		06/04/21 08:46	
EPA 9320	Radium-228	0.247 ± 0.316 (0.669) C:68% T:85%	pCi/L		06/07/21 11:16	
Total Radium Calculation	Total Radium	0.247 ± 0.516 (1.26)	pCi/L		06/21/21 20:12	
92538831004	DUP-1					
EPA 9315	Radium-226	2.47 ± 0.489 (0.154) C:91% T:NA	pCi/L		06/25/21 10:34	
EPA 9320	Radium-228	1.70 ± 0.569 (0.728) C:63% T:78%	pCi/L		06/07/21 11:16	
Total Radium Calculation	Total Radium	4.17 ± 1.06 (0.882)	pCi/L		06/28/21 17:08	



#### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS Pace Project No.: 92538831 Sample: PZ-37D Lab ID: 92538831001 Collected: 05/13/21 12:30 Received: 05/14/21 09:30 Matrix: Water PWS: Site ID: Sample Type: Act ± Unc (MDC) Carr Trac Parameters Method Units Analyzed CAS No. Qual Pace Analytical Services - Greensburg 2.70 ± 0.530 (0.161) EPA 9315 Radium-226 pCi/L 06/25/21 10:34 13982-63-3 C:83% T:NA Pace Analytical Services - Greensburg EPA 9320 2.66 ± 0.740 (0.762) Radium-228 pCi/L 06/07/21 11:16 15262-20-1 C:64% T:78% Pace Analytical Services - Greensburg **Total Radium** Total Radium 5.36 ± 1.27 (0.923) pCi/L 06/28/21 17:08 7440-14-4 Calculation



### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 9	2538831	
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Sample: FB-1	Lab ID: 92538	831002 Collected: 05/13/21 11:30	Received:	05/14/21 09:30 M	latrix: Water	
PWS:	Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg				
Radium-226	EPA 9315	0.0225 ± 0.220 (0.600) C:88% T:NA	pCi/L	06/04/21 08:46	13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.487 ± 0.440 (0.891) C:60% T:79%	pCi/L	06/07/21 11:16	15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.510 ± 0.660 (1.49)	pCi/L	06/21/21 20:12	7440-14-4	



#### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project:YATES RADSPace Project No.:92538831

Sample: EB-1	Lab ID: 92538	<b>3831003</b> Collected: 05/13/21 18:30	Received:	05/14/21 09:30 N	latrix: Water	
PWS:	Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	-0.0213 ± 0.200 (0.591) C:92% T:NA	pCi/L	06/04/21 08:46	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.247 ± 0.316 (0.669) C:68% T:85%	pCi/L	06/07/21 11:16	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.247 ± 0.516 (1.26)	pCi/L	06/21/21 20:12	7440-14-4	



Matrix: Water

CAS No.

Qual

#### **ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: YATES RADS Pace Project No.: 92538831 Sample: DUP-1 Lab ID: 92538831004 Collected: 05/13/21 00:00 Received: 05/14/21 09:30 PWS: Site ID: Sample Type: Parameters Method Act ± Unc (MDC) Carr Trac Units Analyzed Pace Analytical Services - Greensburg EPA 9315 2.47 ± 0.489 (0.154) Radium-226 pCi/L 06/25/21 10:34 13982-63-3 C:91% T:NA Pace Analytical Services - Greensburg

Radium-228	EPA 9320	1.70 ± 0.569 (0.728) C:63% T:78%	pCi/L	06/07/21 11:16 15262-20-1
	Pace Analytica	l Services - Greensburg		
Total Radium	Total Radium Calculation	4.17 ± 1.06 (0.882)	pCi/L	06/28/21 17:08 7440-14-4



#### **QUALITY CONTROL - RADIOCHEMISTRY**

Project:	YATES RADS					
Pace Project No.:	92538831					
QC Batch:	449716	Analysis Method:	EPA 9320			
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 22	8		
		Laboratory:	Pace Analytical S	Services - Greensbur	g	
Associated Lab San	nples: 92538831	001, 92538831002, 92538831003, 92538831004	4			
METHOD BLANK:	2170082	Matrix: Water				
Associated Lab San	nples: 92538831	001, 92538831002, 92538831003, 92538831004	4			
Paran	neter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-228		0.470 ± 0.364 (0.712) C:62% T:85%	pCi/L	06/07/21 11:17		

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 RADS					
Pace Project No.:	92538831					
QC Batch:	450480	Analysis Method:	EPA 9315			
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radiun	n		
		Laboratory:	Pace Analytical Se	ervices - Greensburg	g	
Associated Lab San	nples: 92538831	001, 92538831002, 92538831003, 92538831004				
METHOD BLANK:	2173868	Matrix: Water				
Associated Lab San	nples: 92538831	001, 92538831002, 92538831003, 92538831004				
Paran	neter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-226		0.274 ± 0.327 (0.673) C:95% T:NA	pCi/L	06/04/21 08:45		

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 RADS Pace Project No.: 92538831

#### 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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.



## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	YATES RADS
Pace Project No .:	92538831

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92538831001	PZ-37D	EPA 9315	450480		
92538831002	FB-1	EPA 9315	450480		
92538831003	EB-1	EPA 9315	450480		
92538831004	DUP-1	EPA 9315	450480		
92538831001	PZ-37D	EPA 9320	449716		
92538831002	FB-1	EPA 9320	449716		
92538831003	EB-1	EPA 9320	449716		
92538831004	DUP-1	EPA 9320	449716		
92538831001	PZ-37D	Total Radium Calculation	454327		
92538831002	FB-1	Total Radium Calculation	453438		
92538831003	EB-1	Total Radium Calculation	453438		
92538831004	DUP-1	Total Radium Calculation	454327		

~	D	ocument	Name:		Document Revised: October 28, 2020
Pace Analytical	Sample Con	dition Up	on Receip	t(SCUR)	Page 1 of 2
A accretatytical	F-C	AR-CS-03	it No.: 3-Rev.07		Pace Carolinas Quality Office
boratory receiving samples: Asheville Eden Greenwoo	d 🗌 Hunters	ville 🗌	] Ralei	gh 🗌	Mechanicsville Atlanta Kernersvil
Sample Condition Upon Receipt G-COV 9. 01	power			Projec	, WO# : 92536651
Commercial		er:		nent	92538831
tody Seal Present? Yes	Seals Intact?	<b>∐</b> Yes	Dire	5	Date/Initials Person Examining Contents: 州 データ
cking Material: Bubble Wrap ermometer: IR Gun ID: 230	Bubble Bags		e 🗌 ( hvvet 🗆	Other Blue	Biological Jissue Frozen?
vler Temp: <u>212</u> Correction Add/Subt	Factor: + ract (°C) + 2.0	0,2	_		Temp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling p has begun
DA Regulated Soil (  N/A, water sample) samples originate in a quarantine zone within t Yes	he United States: CA	A, NY, or S	C (check m	iaps)?	Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes Comments/Discrepancy:
Chain of Custody Present?	Fres			1.	
Samples Arrived within Hold Time?	Dies			2.	
Short Hold Time Analysis (<72 hr.)?	☐Yes	Dino		3.	
Rush Turn Around Time Requested?	Yes	DINO		4.	
Sufficient Volume?	Pres	No		5.	
Correct Containers Used? -Pace Containers Used?	Pres Ves		□n/a □n/a	6,	
Containers Intact?	Ves	No		7.	
Dissolved analysis: Samples Field Filtered?	Yes	DNo		8.	
Sample Labels Match COC?	Ja√ ∂a√	□No	∐N/A	9.	
-includes bace interior Analysis Matrix			de	10	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
Trip Blank Present?	⊥ Yes		DIN/A	11.	
Trip Blank Custody Seals Present?	Yes	No			Field Data Required?
IENT NOTIFICATION/RESOLUTION				Lot	ID of split containers:
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ternat	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) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-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 HCI (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 Na252O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 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 Sterile Plastic (N/A - lab)	GPIN	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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Nate: 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.

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Comments:

Pace Analytical www.peededes.com	Ra-336		Analyst Must Manually Enter All Fields Highlighted in Yello	<u>ow.</u>	
Analyst Date:	LAL 6/4/2021		Sample Matrix Spike Control Assessment MS/ Sample Collection Date:	S/MSD 1	MS/MSD 2
Worklist Matrix:	60915 DW		Sample I.D. Sample MS I.D.		
Method Blank Assessment			Sample MSD I.D.		
MB Sample ID	2173868		MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
MB concentration:	0.274		Spike Volume Used in MS (mL):		
M/B Counting Uncertainty:	0.325		Spike Volume Used in MSD (mL): MS Alicut (L. g. F):		
MB Numerical Performance Indicator	1.66		MS Target Conc.(pCi/L, g, F):		
MB Status vs Numerical Indicator:	N/A		MSD Tarnet Conc. (nCiA or EV		
			MS Spike Uncertainty (calculated):		
Laboratory Control Sample Assessment	CSD (Y or N)?	Y	MSD Spike Uncertainty (calculated):		
Count Date:	6/4/20/21	6/4/2021	Sample Result Counting Uncertainty (pCi/L_g. F):		
Spike I.D.:	19-033	19-033	Sample Matrix Spike Result		
Decay Corrected Spike Concentration (pCi/mL):	24.037	24.037	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Aliquid Volume (L. d. F):	0.10	0,10	Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result Counting Uncertainty (pCI/L. g. F):		
Target Conc. (pCi/L, g, F):	4.738	4.794	MS Numerical Performance Indicator:		
Uncertainty (Calculated):	0.057	0.058	MSD Numerical Performance Indicator:		
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.897	0.930	MSD Percent Recovery:		
Numerical Performance Indicator:	-0.18	0.39	MS Status vs Numerical Indicator:		
Percent Recovery:	98.30%	1U3.84%	MSD Status vs Nutrierical indicator:		
Status vs Numerical Indicator:	Pass	Pass	MSD Status vs Recovery:		
Upper % Recovery Limits:	125%	125%	MS/MSD Upper % Recovery Limits:		
	0,01	1070	Mis/Mis/ Lower // Necovery Linnis.		
Duplicate Sample Assessment			Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.:	LCS60915		Sample I.D.		
Sample Result (pCi/L, g, F):	4.657		Sample MSD I.D.		
Sample Result Counting Uncertainty (pCi/L, g, F):	0,897		Sample Matrix Spike Result:		
Sample Duplicate Result (pCi/L, g, F):	4.978		Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Are sample and/or duplicate results below RL?	NO		Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator.	-0.487		Duplicate Numerical Performance Indicator:		
(pased on the LCO/LCOD) Felcent Recoveries/ publicate RFD. Dublicate Status vs Numerical Indicator:	N/A		MS/ MSD Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:	Pass		MS/ MSD Duplicate Status vs RPD:		
## Evaluation of dunlicate precision is not applicable if either the sa	mole or dunlicate r	esults are helow the			
## Evaluation of dublicate precision is not applicable if either the se	imple or duplicate r	esuits are below ind			

**Quality Control Sample Performance Assessment** 

Pace Analytical Services, Inc. Total Alpha Radium QC Assessment

Page 17 of 18


Comments:

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

Bana Analytical			· · · · · · · · · · · · · · · · · · ·		
www.pacedaba.com	Ra-228		Analyst must manually chter An Fleids righnighted in Tehow.		
Analyst	JC2		Sample Matrix Spike Control Assessment MS/MSI	SD 1	MS/MSD 2
Date:	6/3/2021		Sample Collection Date:		
Worklist	60773		Sample I.D.		
Matrix:	W I				
Method Blank Assessment			Spike 1.D.:		
MB Sample ID	2170082		MS/MSD Decay Corrected Spike Concentration (pCi/mL):	-	
MB concentration:	0.470		Spike Volume Used in MS (mL):		
M/B 2 Sigma CSU:	0.364		Spike Volume Used in MSD (mL): MS Aliciust /1 or E):		
MR Numerical Performance Indicator	2 53		MS Target Conc. (pCi/L, g, F):		
MB Status vs Numerical Indicator:	Warning		MSD Aliquot (L, g, F):		
MB Status vs. MDC:	Pass		MSD Target Conc. (pCi/l., g, F):		
aboratory Control Sample Assessment	CSD /Y or N/2	Y	MSD Spike Uncertainty (concurrent);		
	LCS60773	LCSD60773	Sample Result:		
Count Date:	6/7/2021	6/7/2021	Sample Result 2 Sigma CSU (pCi/L, g, F):		
	37 407	37 407	Matrix Spike Result 2 Sigma CSU (nCi/L or F):		
Volume Used (mL):	0.10	0.10	Sample Matrix Spike Duplicate Result:		
Aliquot Volume (L, g, F): Tarnet Conc. (bCi/L, g, F):	0.816	0.852 4.392	Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator:		
Uncertainty (Calculated):	0.225	0.215	MSD Numerical Performance Indicator:		
Result (pCi/L, g, F):	4.404	4.759	MSD Percent Recovery:		
Numerical Performance Indicator:	-0.34	0.67	MS Status vs Numerical Indicator:		
Percent Recovery:	96.08%	108.37%	MSD Status vs Numerical Indicator:		
Status vs Numerical Indicator:	N/A	N/A	MS Status vs Recovery:		
Status vs Recovery:	Pass	Pass	MSD Status vs Recovery:		
Upper % Recovery Limits: Lower % Recovery Limits:	135% 60%	135% 60%	MS/MSU Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		
			Matrix SnikoMatrix Snika Dunlingta Sample Assassment		
Dubinate Sample Assessment					
Sample I.D.:	LCS60773	Enter Duplicate	Sample I.D.		
Sample Desuit (nCi/l or EV)	4 404	other than	Sample MSD 1.D.		
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.013	LCS/LCSD in	Sample Matrix Spike Result:		
Sample Duplicate Result (pCi/L, g, F):	4.759	the space below.	Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.051		Sample Matrix Spike Duplicate Result 3 Sinna CSU (aCi/L a EV		
Dunitate Numerical Deformance Indicator	_0 477		Dunlicate Numerical Performance Indicator		
Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	12.02%		(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
Duplicate Status vs Numerical Indicator:	Pass		MS/ MSD Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD: % RPD Limit:	Pass 36%		MS/ MSU Duplicate Status vs KPD: % RPD Limit		

**Quality Control Sample Performance Assessment** 



**Statistical Analysis** 

2021 Semiannual Groundwater and Corrective Action Report Plant Yates AP-3, A, B, B' and R6 CCR Landfill Newnan, GA Appendix III Statistically Significant Increase Summary (March 2021)

Appendix III Parameter	March 2021
Boron	YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43
Calcium	YGWC-38, YGWC-42
Chloride	YGWC-24SA
рН	YGWC-41
Sulfate	YGWC-38, YGWC-42, YGWC-43
Total Dissolved Solids	YGWC-38, YGWC-41, YGWC-42, YGWC-43

#### GROUNDWATER STATS CONSULTING



August 24, 2021

Southern Company Services Attn: Ms. Lauren Coker 241 Ralph McGill Blvd NE, Bin 10160 Atlanta, GA 30308-3374

#### Re: Plant Yates Ash Management Area (AMA) and R6 CCR Landfill March 2021 Statistical Analysis

Dear Ms. Coker,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the March 2021 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates Ash Management Area (AMA) and R6 CCR Landfill. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (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-23S, YGWC-24SA, YGWC-36A, YGWC-38, YGWC-41, YGWC-42, YGWC-43, YGWC-49
- Delineation wells: YAMW-1, YAMW-2, YAMW-4, YAMW-5, PZ-35, and PZ-37

Combined upgradient well data from all units at Plant Yates are utilized to construct statistical limits for Appendix III and IV parameters. When a minimum of 4 samples is available, delineation wells are evaluated using confidence intervals for the Appendix IV constituents.

Well YGWC-24SA was installed in June 2020 as a replacement well for YGWC-24S and well YGWC-36A was installed in September 2020 as a replacement well for YGWC-36 to supplement existing data for each respective well. In all cases, concentrations from both wells are below established MCLs. When a minimum of 8 samples have been collected from new well YGWC-36A, the Mann-Whitney test of medians will be used to evaluate whether the medians of data from both wells are statistically significant differences, the historical record will be truncated so that only data from new well YGWC-36A are evaluated in the confidence interval comparisons to respective Groundwater Protection Standards. Throughout this report, well YGWC-24SA and well YGWC-36A refers to data from both wells YGWC-36 and YGWC-36A.

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed Kristina Rayner, Groundwater Statistician and Founder of 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 and delineation well/constituent pairs with 100% non-detects follows this letter. Additionally, when Appendix IV constituents are not detected during a scheduled Scan event, no statistical analyses are required during the semi-annual sample event. During the annual Scan event conducted in February 2021, thallium was not detected; therefore, it was not required to be sampled during the subsequent event. In some cases, upgradient wells at a given unit were not sampled for all constituents if no detections were present at downgradient wells for that particular unit. The following constituents were not detected during their respective Scan events at other Plant Yates units; therefore, upgradient wells at the units listed below were not sampled for these constituents:

- Yates Gypsum Landfill: molybdenum
- Yates AP-1: cadmium, mercury, selenium, and thallium
- Yates AP-2: mercury and thallium

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 be 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 April 2019 evaluation 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 Ground Water Protections Standards (GWPS) for each Appendix IV constituent

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 limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The following approaches are used for handling non-detects (USEPA, 2009):

- No statistical analyses are required on wells and analytes containing 100% nondetects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of onehalf 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 Screening Conducted in April 2019

#### Outlier and Trend Testing

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

Using the Tukey box plot method, several outliers were identified. 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.

During the time of the screening, none of the outliers identified by Tukey's method were flagged in the database as all values were either similar to remaining measurements within the same well and neighboring wells, or the values were reported non-detects. Later, when all upgradient wells were pooled to construct statistical limits, one detected value of 6.3 s.u. for pH at well YGWA-47 (an upgradient well from AP-1) was flagged as an outlier because it was unusually high during a single event compared to all other values at neighboring wells. 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.

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

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends and the results of those findings were submitted with the screening. 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 showed several statistically significant decreasing and increasing trends for the Appendix III parameters. Most of the trends noted were relatively low in magnitude when compared to average concentrations, and the background time period is short with only two 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.

#### <u>Appendix III – Determination of Spatial Variation</u>

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

population; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified variation among upgradient well data for all Appendix III parameters. These constituents were further evaluated during the screening for the appropriateness of intrawell or interwell methods for each constituent. However, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

#### Statistical Analysis of Appendix III Parameters – March 2021

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. No new values were flagged for Appendix III parameters, and a summary of flagged outliers follows this report (Figure C).

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical pooled upgradient well data through March 2021 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether there are statistically significant increases (SSIs). Note that reporting limit changes during this analysis occurred for boron (from <0.1 mg/L to <0.04 mg/L), but there were no changes in statistical limits.

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 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. A summary table of the interwell prediction limits follows this letter (Figure D). Prediction limit exceedances were noted for the following Appendix III well/constituent pairs:

- Boron: YGWC-23S, YGWC-38, YGWC-41, YGWC-42, and YGWC-43
- Calcium: YGWC-38 and YGWC-42
- Chloride: YGWC-24SA
- pH: YGWC-41

- Sulfate: YGWC-38, YGWC-42, and YGWC-43
- TDS: YGWC-38, YGWC-41, YGWC-42, and YGWC-43

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:

- Boron: YGWC-43
- Calcium: YGWA-1D, GWA-2, YGWA-17S, and YGWA-21I (all upgradient)
- Chloride: YGWA-17S and YGWA-20S (both upgradient)
- pH: YGWA-21I (upgradient)
- Sulfate: YGWA-1D (upgradient), GWA-2 (upgradient), YGWA-3D (upgradient), YGWA-5I (upgradient), and YGWC-43
- TDS: YGWC-43

Decreasing:

- Boron: YGWA-21I (upgradient), YGWC-38, and YGWC-41
- Calcium: YGWA-1I (upgradient), YGWA-5D (upgradient), YGWA-18S (upgradient), YGWA-40 (upgradient), YGWA-47 (upgradient), YGWC-38, and YGWC-42
- Chloride: YGWA-3D, YGWA-3I, YGWA-5D, and YGWA-47 (all upgradient)
- pH: YGWA-5D, YGWA-18S, and YGWA-39 (all upgradient)
- Sulfate: YGWA-5D (upgradient), YGWA-39 (upgradient), YGWA-40 (upgradient), YGWA-47 (upgradient), YGWC-38, YGWC-41, and YGWC-42
- TDS: YGWA-5D (upgradient), YGWA-40 (upgradient), YGWA-47 (upgradient), YGWC-38, YGWC-41, and YGWC-42

#### Statistical Analysis of Appendix IV Parameters – March 2021

For analysis of Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Groundwater Protection

Standards (GWPS). GWPS were developed as described below. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis.

A high value for cobalt at upgradient well GWA-2, 0.21 mg/L from March 2021, along with high values 0.20 mg/L and 0.16 mg/L from August and September 2020, were two orders of magnitude higher than the other values for that well. The August and September 2020 values were flagged during the previous analysis, and the March 2021 value was flagged as an outlier during this analysis in order to maintain limits that were conservative from a regulatory perspective. However, since three observations were reported at this level, further study may indicate that the values should not be flagged for future analyses. A summary of flagged outliers follows this report (Figure C).

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data 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 (or false positive rate) is too small to display in the results table. The background limits were then used when determining the Groundwater Protection Standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a).

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

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, CCR-rule specified levels have been specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

On July 30, 2018, USEPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Georgia EPD has not incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, for sites regulated under Georgia EPD Rules, the State GWPS is:

- The MCL or
- The background concentration when an MCL is not established or when the background concentration is higher than the MCL.

Following the above Georgia EPD Rule requirements and the CCR Rule, Federal and State GWPS were established for Appendix IV constituents for the March 2021 sample event (Figure G). To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the detected Appendix IV constituents in each downgradient well using all historical data through March 2021 according to both Federal and State rules (Figures H and I, respectively). Delineation wells were included when a minimum of 4 samples were available. Note that while a GWPS is established for thallium, no statistical comparison with confidence intervals is required because this constituent was not sampled.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals. Those confidence intervals were compared to the GWPS established using the CCR Rules for the federal requirements and the Georgia EPD Rules 391-3-4-.10(6)(a) for the State requirements. 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. Note that reporting limits decreased for the following constituents during this analysis:

- Beryllium from <0.003 mg/L to <0.0005 mg/L
- Cadmium from <0.0025 mg/L to <0.0005 mg/L
- Chromium from <0.01 mg/L to <0.005 mg/L
- Lead from <0.005 mg/L to <0.001 mg/L
- Mercury from <0.0005 mg/L to <0.0002 mg/L
- Selenium from <0.01 mg/L to <0.005 mg/L

As a result, background limits were lower for these constituents as compared to the previous analysis. However, in all cases for Federal and State confidence intervals, except for lead, which uses the background limit as the GWPS, the established MCL and/or CCR Rule Specified levels were higher than the background limits. Therefore, the GWPS were not affected. Summaries of confidence intervals and complete graphical results follow this letter. For both federal and state confidence intervals, exceedances were noted for the following well/constituent pairs:

Federal:

- Beryllium: YGWC-38
- Selenium: YGWC-38 and PZ-37

State:

- Beryllium: YGWC-38
- Selenium: YGWC-38 and PZ-37

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Yates Ash Management Area (AMA) and R6 CCR Landfill. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

llin

Andrew T. Collins Project Manager

Kristina Rayner

Kristina L. Rayner Groundwater Statistician

#### 100% Non-Detects: Appendix IV Downgradient and Delineation Wells

Analysis Run 5/6/2021 9:04 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Antimony (mg/L) YAMW-2

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

Arsenic (mg/L) YAMW-1, YAMW-2

Beryllium (mg/L) YAMW-4

Cadmium (mg/L) YAMW-2, YAMW-4, YGWC-43, YGWC-24SA

Chromium (mg/L) YAMW-5

Cobalt (mg/L) YGWC-23S, YGWC-38, YGWC-24SA

Fluoride (mg/L) YAMW-1, YAMW-2, YAMW-5, PZ-35

Lithium (mg/L) YAMW-2, YGWC-24SA

Mercury (mg/L) YAMW-1, YAMW-2, YAMW-4, YAMW-5, PZ-35, YGWC-24SA, YGWC-36A

Molybdenum (mg/L) YAMW-2, YAMW-5, YGWC-23S, YGWC-38, YGWC-41, YGWC-24SA

Selenium (mg/L) YAMW-2, YGWC-43, PZ-35, YGWC-24SA

Thallium (mg/L) YAMW-1, YAMW-2, YAMW-4, YAMW-5, YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43, PZ-35, PZ-37, YGWC-24SA, YGWC-36A

# Appendix III Interwell Prediction Limits - Significant Results

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	<u>Sig.</u> Bg N	<u>Bg Mean</u>	Std. Dev.	<u>%NDs</u> ND	Adj. <u>Trar</u>	nsform Alpha		Method
Boron (mg/L)	YGWC-23S	0.16	n/a	3/4/2021	1.2	Yes 293	n/a	n/a	45.73 n/a	n/a	0.000	04917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-38	0.16	n/a	3/4/2021	6.4	Yes 293	n/a	n/a	45.73 n/a	n/a	0.000	04917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-41	0.16	n/a	3/4/2021	4	Yes 293	n/a	n/a	45.73 n/a	n/a	0.000	04917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-42	0.16	n/a	3/4/2021	14.8	Yes 293	n/a	n/a	45.73 n/a	n/a	0.000	04917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-43	0.16	n/a	3/4/2021	3.6	Yes 293	n/a	n/a	45.73 n/a	n/a	0.000	04917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-38	37	n/a	3/4/2021	87	Yes 293	n/a	n/a	1.024 n/a	n/a	0.000	04917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-42	37	n/a	3/4/2021	90.7	Yes 293	n/a	n/a	1.024 n/a	n/a	0.000	04917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-24SA	7.9	n/a	3/3/2021	8.6	Yes 293	n/a	n/a	0 n/a	n/a	0.000	04917	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-41	8.39	4.86	3/4/2021	4.69	Yes 373	n/a	n/a	0 n/a	n/a	0.000	09834	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-38	160	n/a	3/4/2021	356	Yes 293	n/a	n/a	6.143 n/a	n/a	0.000	04917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-42	160	n/a	3/4/2021	537	Yes 293	n/a	n/a	6.143 n/a	n/a	0.000	04917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-43	160	n/a	3/4/2021	328	Yes 293	n/a	n/a	6.143 n/a	n/a	0.000	04917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-38	221.5	n/a	3/4/2021	600	Yes 293	10.01	2.574	0.6826 Non	e sqrt	(x) 0.000	9403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-41	221.5	n/a	3/4/2021	224	Yes 293	10.01	2.574	0.6826 Non	e sqrt	(x) 0.000	9403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-42	221.5	n/a	3/4/2021	501	Yes 293	10.01	2.574	0.6826 Non	e sqrt	(x) 0.000	9403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-43	221.5	n/a	3/4/2021	592	Yes 293	10.01	2.574	0.6826 Non	e sqrt	(x) 0.000	9403	Param Inter 1 of 2

## Appendix III Interwell Prediction Limits - All Results

Constituent	Well	Upper Lim	Lower Lim.	Date	Observ.	Sig.	<u>Bg N</u>	<u>Bg Mean</u>	Std. Dev.	<u>%NDs</u>	<u>ND Adj.</u>	Transforr	n <u>Alpha</u>	Method
Boron (mg/L)	YGWC-23S	0.16	n/a	3/4/2021	1.2	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-38	0.16	n/a	3/4/2021	6.4	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-41	0.16	n/a	3/4/2021	4	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-42	0.16	n/a	3/4/2021	14.8	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-43	0.16	n/a	3/4/2021	3.6	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-49	0.16	n/a	3/4/2021	0.04ND	No	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-24SA	0.16	n/a	3/3/2021	0.04ND	No	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-36A	0.16	n/a	3/4/2021	0.0088J	No	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-23S	37	n/a	3/4/2021	10.2	No	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-38	37	n/a	3/4/2021	87	Yes	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-41	37	n/a	3/4/2021	16.4	No	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-42	37	n/a	3/4/2021	90.7	Yes	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-43	37	n/a	3/4/2021	32.2	No	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-49	37	n/a	3/4/2021	13	No	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-24SA	37	n/a	3/3/2021	2.4	No	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-36A	37	n/a	3/4/2021	5.6	No	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-23S	7.9	n/a	3/4/2021	1.8	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-38	7.9	n/a	3/4/2021	3.9	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-41	7.9	n/a	3/4/2021	3.4	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-42	7.9	n/a	3/4/2021	2.7	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-43	7.9	n/a	3/4/2021	2.1	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-49	7.9	n/a	3/4/2021	4.1	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-24SA	7.9	n/a	3/3/2021	8.6	Yes	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-36A	7.9	n/a	3/4/2021	6.6	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-23S	0.68	n/a	3/4/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-38	0.68	n/a	3/4/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-41	0.68	n/a	3/4/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-42	0.68	n/a	3/4/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-43	0.68	n/a	3/4/2021	0.063J	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-49	0.68	n/a	3/4/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-24SA	0.68	n/a	3/3/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-36A	0.68	n/a	3/4/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-23S	8.39	4.86	3/4/2021	5.44	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-38	8.39	4.86	3/4/2021	5.01	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
рН (S.U.)	YGWC-41	8.39	4.86	3/4/2021	4.69	Yes	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-42	8.39	4.86	3/4/2021	5.59	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-43	8.39	4.86	3/4/2021	5.88	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-49	8.39	4.86	3/4/2021	5.88	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-24SA	8.39	4.86	3/3/2021	5.7	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-36A	8.39	4.86	3/4/2021	5.67	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-23S	160	n/a	3/4/2021	61.7	No	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-38	160	n/a	3/4/2021	356	Yes	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-41	160	n/a	3/4/2021	117	No	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-42	160	n/a	3/4/2021	537	Yes	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-43	160	n/a	3/4/2021	328	Yes	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-49	160	n/a	3/4/2021	75.1	No	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-24SA	160	n/a	3/3/2021	0.5ND	No	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-36A	160	n/a	3/4/2021	6.3	No	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-23S	221.5	n/a	3/4/2021	96	No	293	10.01	2.574	0.682	6 None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-38	221.5	n/a	3/4/2021	600	Yes	293	10.01	2.574	0.682	6 None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-41	221.5	n/a	3/4/2021	224	Yes	293	10.01	2.574	0.682	6 None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-42	221.5	n/a	3/4/2021	501	Yes	293	10.01	2.574	0.682	6 None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-43	221.5	n/a	3/4/2021	592	Yes	293	10.01	2.574	0.682	6 None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-49	221.5	n/a	3/4/2021	145	No	293	10.01	2.574	0.682	6 None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-24SA	221.5	n/a	3/3/2021	70	No	293	10.01	2.574	0.682	6 None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-36A	221.5	n/a	3/4/2021	69	No	293	10.01	2.574	0.682	6 None	sqrt(x)	0.0009403	Param Inter 1 of 2

# Appendix III Trend Tests - Prediction Limits Exceedances - Significant Results

Constituent	Well	Slope	Calc.	Critical	Sig.	N	<u>%NDs</u>	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-21I (bg)	-0.006801	-60	-58	Yes	16	56.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-38	-4.08	-56	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-41	-2.779	-44	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-43	0.7481	72	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.118	59	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.0863	-67	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	1.232	68	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-0.9737	-45	-43	Yes	13	7.692	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-2.574	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-38	-30.07	-64	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-42	-11.87	-44	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-2.036	-56	-43	Yes	13	7.692	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	4.949	63	48	Yes	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.7865	60	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.1168	-63	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.3002	76	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.189	71	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.9116	-83	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.5003	-45	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.06529	-59	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.05699	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-18S (bg)	-0.05702	-88	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-21I (bg)	0.2015	107	81	Yes	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-39 (bg)	-0.2384	-89	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-5D (bg)	-0.09849	-78	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-3.687	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-12.05	-54	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-3.891	-96	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.09335	70	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-38	-145.1	-67	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-42	-113.1	-49	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-43	54	56	43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-25.19	-71	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	25.64	66	48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	1.091	76	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.4938	60	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-40 (bg)	-18.83	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-18.77	-74	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-38	-198	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-41	-134.8	-62	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-42	-168.3	-56	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-43	111.1	70	43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-14.88	-54	-43	Yes	13	0	n/a	n/a	0.01	NP

# Appendix III Trend Tests - Prediction Limits Exceedances - All Results

Constituent	Well	Slope	Calc	Critical	Sia	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-17S (ba)	-0.0002497	-11	-58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-34	-58	No	16	75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	-0 0003285	-14	-58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-15	-58	No	16	87.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-211 (bg)	-0.006801	-60	-58	Yes	16	56.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (ba)	0.002402	14	43	No	13	7.692	n/a	n/a	0.01	NP
Boron (ma/L)	YGWA-40 (bg)	-0.02279	-41	-43	No	13	0	n/a	n/a	0.01	NP
Boron (ma/L)	YGWA-41 (bg)	0	-17	-58	No	16	62.5	n/a	n/a	0.01	NP
Boron (ma/L)	YGWA-5D (ba)	0.0001974	12	58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	-0.0019	-46	-58	No	16	56.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-23S	-0.1172	-38	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-38	-4.08	-56	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-41	-2.779	-44	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-42	-1.536	-37	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-43	0.7481	72	43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.001291	-39	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	5	48	No	14	57 14	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.00131	-37	-58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0	-2	-58	No	16	25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-11 (bg)	0	-23	-58	No	16	68 75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21 (bg)	0	-23	-58	No	16	75	n/a	n/a	0.01	
Boron (mg/L)	YGWA-30L(bg)	0	-28	-58	No	16	81 25	n/a	n/a	0.01	
Boron (mg/L)	YGW(A 3D (bg)	0	-20	-50	No	16	56.25	n/a	n/a	0.01	
Boron (mg/L)	YGWA-3L (bg)	0	-0	-50	No	16	97.5	n/a	n/a	0.01	
Coloium (mg/L)		0 449	-23	-00	NO	10	o7.5	n/a	n/a	0.01	
		0.00400	10	50	Tes	10	0	11/a	n/a	0.01	
	YGWA-181 (bg)	0.02122	10	56	NO	10	0	n/a	n/a	0.01	NP
		-0.0863	-07	-38	res	16	0	n/a	n/a	0.01	
		0.09145	54	58	NO	10	0	n/a	n/a	0.01	NP
	YGWA-211 (bg)	1.232	68	58	Yes	16	0	n/a	n/a	0.01	NP
		0.4473	13	43	NO	13	0	n/a	n/a	0.01	NP
	YGWA-40 (bg)	-0.9/3/	-45	-43	Yes	13	7.692	n/a	n/a	0.01	NP
	YGWA-4I (bg)	0.2746	37	58	NO	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-2.574	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.09171	50	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-38	-30.07	-64	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-42	-11.87	-44	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-2.036	-56	-43	Yes	13	7.692	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	4.949	63	48	Yes	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-14S (bg)	-0.03659	-46	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.7865	60	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.1168	-63	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-2I (bg)	0.5792	38	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0	-6	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.7746	48	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.43	27	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.3002	76	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.05099	35	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18S (bg)	0.2082	50	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.189	71	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-21I (bg)	-0.1117	-28	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.2329	13	43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.1751	26	43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-4I (bg)	0.1099	36	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.9116	-83	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5I (bg)	0	-1	-58	No	16	0	n/a	n/a	0.01	NP

# Appendix III Trend Tests - Prediction Limits Exceedances - All Results<sup>2</sup>

Constituent	Well	<u>Slope</u>	Calc.	<u>Critical</u>	<u>Sig.</u>	N	<u>%NDs</u>	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Chloride (mg/L)	YGWA-47 (bg)	-0.5003	-45	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.1272	29	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1626	30	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	-0.02735	-40	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.02869	-33	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.05296	-45	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-21	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.06529	-59	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.05699	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-24SA	0.4282	54	58	No	16	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-17S (bg)	-0.005007	-36	-74	No	19	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-18I (bg)	-0.01164	-23	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-18S (bg)	-0.05702	-88	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-20S (bg)	0.03	81	81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-21I (bg)	0.2015	107	81	Yes	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-39 (bg)	-0.2384	-89	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-40 (bg)	0.005552	4	58	No	16	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-4I (bg)	-0.02017	-44	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-5D (bg)	-0.09849	-78	-74	Yes	19	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-5I (bg)	0	-7	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWC-41	0.04117	13	53	No	15	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-47 (bg)	-0.0262	-37	-48	No	14	0	n/a	n/a	0.01	NP
pH (S.U.)	GWA-2 (bg)	-0.03439	-128	-139	No	29	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-14S (bg)	-0.003962	-13	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-1D (bg)	-0.06046	-60	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-1I (bg)	-0.05767	-78	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-2I (bg)	0.005696	10	81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-30I (bg)	0.002608	7	81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-3D (bg)	-0.006892	-11	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-3I (bg)	-0.03856	-36	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.1322	51	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.2007	-54	-58	No	16	25	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18S (bg)	-0.1939	-48	-58	No	16	12.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	24	58	No	16	62.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.2852	-25	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-3.687	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-12.05	-54	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-4I (bg)	0.1751	39	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-3.891	-96	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.09335	70	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-38	-145.1	-67	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-42	-113.1	-49	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-43	54	56	43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-25.19	-71	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (ba)	25.64	66	48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-14S (bg)	0.09469	17	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	1.091	76	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1I (bg)	-0.2947	-23	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	0.1728	11	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-301 (ba)	-0.08892	-28	-58	No	16	-	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (ba)	0.4938	60	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.6094	45	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-17S (bg)	4 826	22	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18I (ba)	-2.316	-19	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18S (bg)	3.74	25	58	No	16	0	n/a	n/a	0.01	NP
						-					

# Appendix III Trend Tests - Prediction Limits Exceedances - All Results<sup>3</sup>

Constituent	Well	Slope	Calc.	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Total Dissolved Solids (mg/L)	YGWA-20S (bg)	3.156	31	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)	15.05	46	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	17.14	28	43	No	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-40 (bg)	-18.83	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-4I (bg)	1.119	8	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-18.77	-74	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5I (bg)	-1.204	-7	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-38	-198	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-41	-134.8	-62	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-42	-168.3	-56	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-43	111.1	70	43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-14.88	-54	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-2 (bg)	29.32	40	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-14S (bg)	2.021	18	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)	1.869	13	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1I (bg)	-3.828	-26	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-2I (bg)	-3.302	-32	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-30I (bg)	2.131	17	58	No	16	12.5	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)	1.956	12	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3I (bg)	0.9644	5	58	No	16	0	n/a	n/a	0.01	NP

# Upper Tolerance Limits Summary Table

Constituent	Upper Lim.	Lower Lim.	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Mean</u>	Std. Dev.	<u>%NDs</u>	ND Adj.	Transform	<u>Alpha</u>	Method
Antimony (mg/L)	0.0047	n/a	n/a	315	n/a	n/a	86.03	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	n/a	363	n/a	n/a	77.96	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.071	n/a	n/a	363	n/a	n/a	3.03	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0005	n/a	n/a	347	n/a	n/a	81.27	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.0005	n/a	n/a	347	n/a	n/a	95.68	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	n/a	n/a	315	n/a	n/a	77.46	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	n/a	n/a	360	n/a	n/a	69.72	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	6.92	n/a	n/a	342	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	0.68	n/a	n/a	362	n/a	n/a	68.51	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	0.0013	n/a	n/a	317	n/a	n/a	82.65	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	342	n/a	n/a	27.49	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.0002	n/a	n/a	278	n/a	n/a	93.17	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.014	n/a	n/a	306	n/a	n/a	59.8	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	345	n/a	n/a	91.59	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	298	n/a	n/a	96.64	n/a	n/a	NaN	NP Inter(NDs)

	YATES AMA	-R6 GWPS			
		CCR-Rule	Background	Federal	State
Constituent Name	MCL	Specified	Limit	GWPS	GWPS
Antimony, Total (mg/L)	0.006		0.0047	0.006	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01	0.01
Barium, Total (mg/L)	2		0.071	2	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4	4
Lead, Total (mg/L)		0.015	0.0013	0.015	0.0013
Lithium, Total (mg/L)		0.04	0.03	0.04	0.03
Mercury, Total (mg/L)	0.002		0.0002	0.002	0.002
Molybdenum, Total (mg/L)		0.1	0.014	0.1	0.014
Selenium, Total (mg/L)	0.05		0.005	0.05	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002	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

## Federal Confidence Intervals - Significant Results

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	<u>Sig.</u>	<u>N</u>	Mean	Std. Dev.	<u>%NDs</u>	<u>ND Adj.</u>	Transform	<u>Alpha</u>	Method
Beryllium (mg/L)	YGWC-38	0.005497	0.004113	0.004	Yes	14	0.004743	0.001073	0	None	x^2	0.01	Param.
Selenium (mg/L)	YGWC-38	0.249	0.076	0.05	Yes	14	0.1755	0.07444	0	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-37	0.3047	0.2211	0.05	Yes	11	0.2629	0.0502	0	None	No	0.01	Param.

### Federal Confidence Intervals - All Results

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	<u>Sig.</u>	<u>N</u>	Mean	Std. Dev.	<u>%NDs</u>	<u>ND Adj.</u>	Transform	<u>Alpha</u>	Method
Antimony (mg/L)	YAMW-1	0.025	0.00037	0.006	No	5	0.006874	0.0102	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	YGWC-23S	0.003	0.00085	0.006	No	16	0.002541	0.0009916	81.25	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-38	0.003	0.00061	0.006	No	13	0.002312	0.001105	69.23	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-41	0.003	0.0014	0.006	No	13	0.002877	0.0004438	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-42	0.003	0.00053	0.006	No	13	0.00281	0.0006851	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-43	0.003	0.00031	0.006	No	13	0.002793	0.0007461	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-49	0.003	0.0011	0.006	No	13	0.002664	0.0008287	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-35	0.003	0.00039	0.006	No	5	0.002478	0.001167	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	PZ-37	0.003	0.0014	0.006	No	11	0.002614	0.0008911	81.82	None	No	0.006	NP (NDs)
Antimony (mg/L)	YGWC-24SA	0.003	0.0009	0.006	No	16	0.002869	0.000525	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-36A	0.0041	0.0014	0.006	No	16	0.004256	0.006491	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-23S	0.005	0.0012	0.01	No	18	0.004789	0.0008957	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-38	0.00212	0.0007623	0.01	No	14	0.001676	0.001497	14.29	None	ln(x)	0.01	Param.
Arsenic (mg/L)	YGWC-41	0.005	0.00062	0.01	No	14	0.00288	0.002208	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-42	0.003139	0.00143	0.01	No	14	0.002355	0.001306	14.29	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	YGWC-43	0.005	0.00099	0.01	No	14	0.004086	0.001819	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-49	0.005	0.00086	0.01	No	13	0.004035	0.001835	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-35	0.005	0.00069	0.01	No	6	0.003608	0.002158	66.67	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	PZ-37	0.005	0.0008	0.01	No	11	0.002504	0.001995	36.36	None	No	0.006	NP (normality)
Arsenic (mg/L)	YGWC-24SA	0.005	0.0015	0.01	No	18	0.004806	0.000825	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-36A	0.005	0.00088	0.01	No	18	0.004041	0.001847	77.78	None	No	0.01	NP (NDs)
Barium (mg/L)	YAMW-1	0.04981	0.02919	2	No	6	0.0395	0.007503	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-23S	0.04499	0.02913	2	No	18	0.03706	0.01311	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-38	0.0239	0.01832	2	No	14	0.02111	0.003941	0	None	No	0.01	Param.
Barium (mɑ/L)	YGWC-41	0.03029	0.0206	2	No	14	0.02544	0.00684	0	None	No	0.01	Param.
Barium (mɑ/L)	YGWC-42	0.04675	0.03191	2	No	14	0.03933	0.01047	0	None	No	0.01	Param.
Barium (mɑ/L)	YGWC-43	0.03572	0.01774	2	No	14	0.02673	0.01269	0	None	No	0.01	Param.
Barium (mɑ/L)	YGWC-49	0.07999	0.06987	2	No	13	0.07493	0.006807	0	None	No	0.01	Param.
Barium (mɑ/L)	PZ-35	0.063	0.032	2	No	6	0.04	0.01166	0	None	No	0.0155	NP (normality)
Barium (mɑ/L)	PZ-37	0.05778	0.04078	2	No	11	0.04928	0.0102	0	None	No	0.01	Param.
Barium (mɑ/L)	YGWC-24SA	0.0203	0.0189	2	No	18	0.02053	0.003411	0	None	No	0.01	NP (normality)
Barium (mɑ/L)	YGWC-36A	0.04411	0.03184	2	No	18	0.03797	0.01014	0	None	No	0.01	Param.
Bervllium (ma/L)	YAMW-1	0.0005	0.000058	0.004	No	6	0.0004047	0.0001776	66.67	None	No	0.0155	NP (NDs)
Beryllium (mg/L)	YAMW-5	0.0002156	0.00005244	0.004	No	4	0.000134	0.00003593	0	None	No	0.01	Param.
Bervllium (ma/L)	YGWC-23S	0.0005	0.000081	0.004	No	18	0.0002109	0.0001859	27.78	None	No	0.01	NP (normality)
Bervllium (mg/L)	YGWC-38	0.005497	0.004113	0.004	Yes	14	0.004743	0.001073	0	None	x^2	0.01	Param.
Bervllium (ma/L)	YGWC-41	0.0038	0.002	0.004	No	14	0.003	0.000862	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-42	0.0005	0.000067	0.004	No	14	0.0003503	0.0002087	64.29	None	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-43	0.00053	0.0003	0.004	No	14	0 0004286	0.000133	42.86	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-49	0.00013	0.0001	0.004	No	13	0.0001408	0.0001088	7 692	None	No	0.01	NP (normality)
Beryllium (mg/L)	P7-35	0.0004361	0.0002224	0.004	No	7	0.0003871	0.0001188	28.57	Kaplan-Meier	No	0.01	Param
Beryllium (mg/L)	P7-37	0.0003331	0.0002091	0.004	No	11	0.0003355	0.0001069	18 18	Kaplan-Meier	No	0.01	Param
Beryllium (mg/L)	YGWC-24SA	0.00016	0.0001	0.004	No	18	0.0001811	0.000149	16.67	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-36A	0.0003195	0.0001904	0.004	No	18	0.0002549	0.0001067	5 556	None	No	0.01	Param
Codmium (mg/L)		0.0005	0.00013	0.005	No	6	0.0002040	0.000104	50	None	No	0.0155	NP (normality)
Cadmium (mg/L)	YGWC 225	0.0005	0.00013	0.005	No	19	0.0003233	0.000194	04.44	None	No	0.0133	
Cadmium (mg/L)	YGWC 28	0.0003	0.00007	0.005	No	14	0.0004701	0.0006140	94.44	None	NO	0.01	Derem
Cadmium (mg/L)	YGWC 41	0.002790	0.002139	0.005	No	14	0.00233	0.0001446	29.57	None	No.	0.01	ND (normality)
Cadmium (mg/L)	YGWC 42	0.0005	0.00017	0.005	No	14	0.0002000	0.0001667	12.96	Nono	No	0.01	NP (normality)
Cadmium (mg/L)	VGWC 40	0.0005	0.00017	0.005	No	14	0.0003704	0.0001100	+2.00	Nono	No	0.01	
Cadmium (mg/L)	D7 25	0.0005	0.00007	0.005	No	13 6	0.0004609	0.0001193	ສ∠.ວI ຄວວວ	None	No	0.01	
Cadmium (mg/L)	FZ-00	0.00000000	0.00016	0.005	NO No	U 11	0.0004707	0.0001388	03.33	Kanlan M-i	No	0.01	NF (NDS)
Cadmium (mg/L)	FZ-31	0.0006329	0.0002453	0.005		11	0.0004727	0.0002328	10.10	napian-Meier	No	0.01	Param.
Caumium (mg/L)		0.0005	0.00015	0.005	INO	18	0.0002433	0.0001722	22.22	None	NO	0.01	NP (normality)
Chromium (mg/L)		0.001163	0.0003768	0.1		4	0.00077	0.0001732	U	None	No	0.01	Faram.
Gniomium (mg/L)	1600-235	0.005	0.0008	U. I	INO	14	0.003296	0.002061	o1.14	NOUG	NO	0.01	INP (INDS)

### Federal Confidence Intervals - All Results

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	<u>Sig.</u>	N	Mean	Std. Dev.	<u>%NDs</u>	ND Adj.	Transform	<u>Alpha</u>	Method
Chromium (mg/L)	YGWC-38	0.005	0.00065	0.1	No	14	0.004368	0.001607	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-41	0.005	0.00039	0.1	No	14	0.004671	0.001232	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-42	0.005	0.0013	0.1	No	14	0.004095	0.001807	78.57	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-43	0.005	0.00071	0.1	No	14	0.003755	0.002043	71.43	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-49	0.002	0.0014	0.1	No	12	0.001958	0.0009839	8.333	None	No	0.01	NP (normality)
Chromium (mg/L)	PZ-35	0.0012	0.0006	0.1	No	4	0.0007775	0.0002852	0	None	No	0.0625	NP (normality)
Chromium (mg/L)	PZ-37	0.005	0.0017	0.1	No	11	0.004055	0.001633	72.73	None	No	0.006	NP (NDs)
Chromium (mg/L)	YGWC-24SA	0.005	0.0011	0.1	No	14	0.004153	0.001684	78.57	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-36A	0.005	0.0013	0.1	No	14	0.004034	0.001699	71.43	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YAMW-1	0.02859	0.004268	0.035	No	7	0.01643	0.01106	28.57	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	YGWC-41	0.005	0.00069	0.035	No	14	0.003742	0.002072	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-42	0.0025	0.0017	0.035	No	14	0.0022	0.0008927	7.143	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-43	0.005	0.0016	0.035	No	14	0.00325	0.001688	42.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-49	0.005	0.0006	0.035	No	13	0.003654	0.002103	69.23	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-35	0.0059	0.005	0.035	No	6	0.00515	0.0003674	83.33	None	No	0.0155	NP (NDs)
Cobalt (mg/L)	PZ-37	0.0129	0.004336	0.035	No	11	0.008618	0.005139	0	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-36A	0.005	0.0006	0.035	No	18	0.003761	0.002058	72.22	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YAMW-1	0.8723	0.2073	6.92	No	5	0.5398	0.1984	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-23S	0.8108	0.3587	6.92	No	18	0.5848	0.3736	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-38	1.326	0.5981	6.92	No	14	0.962	0.5138	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-41	1.374	0.6299	6.92	No	14	1.032	0.5676	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-42	2.942	1.277	6.92	No	14	2.11	1.175	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-43	4.059	1.333	6.92	No	14	2.696	1.924	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-49	1.175	0.4779	6.92	No	13	0.8266	0.469	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-35	1.075	-0.04565	6.92	No	5	0.5146	0.3343	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37	2.039	1.437	6.92	No	11	1.749	0.4126	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-24SA	0.7865	0.4799	6.92	No	18	0.6332	0.2534	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-36A	1.095	0.5456	6.92	No	18	0.8205	0.4544	0	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-23S	0.12	0.049	4	No	19	0.09468	0.02023	84.21	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-38	0.24	0.034	4	No	15	0.1616	0.1178	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-41	0.11	0.1	4	No	15	0.1007	0.002582	86.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-42	0.1	0.06	4	No	15	0.08607	0.02601	73.33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-43	0.1159	0.05777	4	No	15	0.1069	0.05423	26.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-49	0.14	0.06	4	No	14	0.09929	0.02702	57.14	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-37	0.31	0.1	4	No	11	0.1773	0.1198	63.64	None	No	0.006	NP (NDs)
Fluoride (mg/L)	YGWC-24SA	0.1	0.098	4	No	19	0.09637	0.01535	89.47	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-36A	0.1	0.09	4	No	19	0.09242	0.03298	63.16	None	No	0.01	NP (NDs)
Lead (mg/L)	YAMW-1	0.001	0.00019	0.015	No	5	0.000838	0.0003622	80	None	No	0.031	NP (NDs)
Lead (mg/L)	YGWC-23S	0.001	0.00021	0.015	No	16	0.0008016	0.0003629	75	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-38	0.001	0.0001	0.015	No	14	0.0008071	0.0003832	78.57	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-41	0.0011	0.00012	0.015	No	14	0.0007541	0.0004218	64.29	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-42	0.001	0.00009	0.015	No	14	0.0007422	0.0004243	71.43	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-43	0.001	80000.0	0.015	No	14	0.0008682	0.000335	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-49	0.001	0.000059	0.015	No	13	0.0009276	0.000261	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-35	0.001	0.000087	0.015	No	5	0.0006474	0.0004833	60	None	No	0.031	NP (NDs)
Lead (mg/L)	PZ-37	0.001	0.000088	0.015	No	11	0.0006066	0.0004535	54.55	None	No	0.006	NP (NDs)
Lead (mg/L)	YGWC-24SA	0.001	0.00036	0.015	No	16	0.0009008	0.0002768	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-36A	0.000658	0.0002358	0.015	No	16	0.0004956	0.0004239	12.5	None	x^(1/3)	0.01	Param.
Lithium (mg/L)	YAMW-1	0.0235	0.0006154	0.04	No	6	0.01255	0.008417	16.67	Kaplan-Meier	No	0.01	Param.
Lithium (ma/L)	YGWC-23S	0.0026	0.0018	0.04	No	18	0.002994	0.003057	5.556	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-38	0.008994	0.007591	0.04	No	14	0.008293	0.0009903	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-41	0.0044	0.0025	0.04	No	14	0.004314	0.003188	7.143	None	No	0.01	NP (normalitv)
Lithium (mg/L)	YGWC-42	0.0478	0.02983	0.04	No	14	0.03881	0.01268	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-43	0.01912	0.01164	0.04	No	14	0.01538	0.005279	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-49	0.0039	0.0035	0.04	No	13	0.003708	0.0002465	0	None	No	0.01	NP (normality)
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### Federal Confidence Intervals - All Results

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	<u>Sig.</u>	<u>N</u>	Mean	Std. Dev.	<u>%NDs</u>	<u>ND Adj.</u>	Transform	<u>Alpha</u>	Method
Lithium (mg/L)	PZ-35	0.015	0.001	0.04	No	6	0.005133	0.006226	16.67	None	No	0.0155	NP (normality)
Lithium (mg/L)	PZ-37	0.03042	0.02345	0.04	No	11	0.02679	0.004677	9.091	None	x^2	0.01	Param.
Lithium (mg/L)	YGWC-36A	0.006884	0.003471	0.04	No	18	0.005478	0.002992	5.556	None	x^(1/3)	0.01	Param.
Mercury (mg/L)	YGWC-23S	0.0002	0.00015	0.002	No	13	0.0001883	0.00003045	5 84.62	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-38	0.0002	0.00008	0.002	No	11	0.0001743	0.00005804	81.82	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-41	0.0002	0.0002	0.002	No	11	0.0001873	0.00004221	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-42	0.0002	0.0002	0.002	No	11	0.0001862	0.00004583	3 90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-43	0.0002	0.0002	0.002	No	11	0.0001865	0.00004462	2 90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-49	0.0002	0.00014	0.002	No	10	0.0001801	0.0000459	80	None	No	0.011	NP (NDs)
Mercury (mg/L)	PZ-37	0.0002	0.0002	0.002	No	11	0.0001873	0.00004221	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	YAMW-1	0.004895	0.001572	0.1	No	4	0.004925	0.003462	25	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	YGWC-42	0.01	0.00094	0.1	No	14	0.00525	0.004314	42.86	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-43	0.01	0.0011	0.1	No	14	0.005679	0.004493	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-49	0.01	0.0007	0.1	No	12	0.009225	0.002685	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-35	0.01	0.0019	0.1	No	4	0.007975	0.00405	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	PZ-37	0.01	0.0016	0.1	No	11	0.004818	0.004118	36.36	None	No	0.006	NP (normality)
Molybdenum (mg/L)	YGWC-36A	0.01	0.0025	0.1	No	14	0.007071	0.003747	57.14	None	No	0.01	NP (NDs)
Selenium (mg/L)	YAMW-1	0.0025	0.0019	0.05	No	6	0.0024	0.0002449	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	YAMW-4	0.016	0.0018	0.05	No	4	0.0057	0.006875	50	None	No	0.0625	NP (normality)
Selenium (mg/L)	YAMW-5	0.08521	0.01079	0.05	No	4	0.048	0.01639	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-23S	0.03964	0.02677	0.05	No	18	0.03321	0.01064	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-38	0.249	0.076	0.05	Yes	14	0.1755	0.07444	0	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-41	0.06577	0.04363	0.05	No	14	0.0547	0.01563	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-42	0.05735	0.04038	0.05	No	14	0.04886	0.01198	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-49	0.00899	0.006583	0.05	No	13	0.007646	0.00198	7.692	None	x^2	0.01	Param.
Selenium (mg/L)	PZ-37	0.3047	0.2211	0.05	Yes	11	0.2629	0.0502	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-36A	0.002744	0.001829	0.05	No	18	0.002433	0.0005931	33.33	Kaplan-Meier	No	0.01	Param.

# State Confidence Intervals - Significant Results

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	<u>Sig.</u>	<u>N</u>	Mean	Std. Dev.	<u>%NDs</u>	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	YGWC-38	0.005497	0.004113	0.004	Yes	14	0.004743	0.001073	0	None	x^2	0.01	Param.
Selenium (mg/L)	YGWC-38	0.249	0.076	0.05	Yes	14	0.1755	0.07444	0	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-37	0.3047	0.2211	0.05	Yes	11	0.2629	0.0502	0	None	No	0.01	Param.

### State Confidence Intervals - All Results

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	<u>%NDs</u>	<u>ND Adj.</u>	Transform	<u>Alpha</u>	Method
Antimony (mg/L)	YAMW-1	0.025	0.00037	0.006	No	5	0.006874	0.0102	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	YGWC-23S	0.003	0.00085	0.006	No	16	0.002541	0.0009916	81.25	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-38	0.003	0.00061	0.006	No	13	0.002312	0.001105	69.23	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-41	0.003	0.0014	0.006	No	13	0.002877	0.0004438	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-42	0.003	0.00053	0.006	No	13	0.00281	0.0006851	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-43	0.003	0.00031	0.006	No	13	0.002793	0.0007461	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-49	0.003	0.0011	0.006	No	13	0.002664	0.0008287	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-35	0.003	0.00039	0.006	No	5	0.002478	0.001167	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	PZ-37	0.003	0.0014	0.006	No	11	0.002614	0.0008911	81.82	None	No	0.006	NP (NDs)
Antimony (mg/L)	YGWC-24SA	0.003	0.0009	0.006	No	16	0.002869	0.000525	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-36A	0.0041	0.0014	0.006	No	16	0.004256	0.006491	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-23S	0.005	0.0012	0.01	No	18	0.004789	0.0008957	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-38	0.00212	0.0007623	0.01	No	14	0.001676	0.001497	14.29	None	ln(x)	0.01	Param.
Arsenic (mg/L)	YGWC-41	0.005	0.00062	0.01	No	14	0.00288	0.002208	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-42	0.003139	0.00143	0.01	No	14	0.002355	0.001306	14.29	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	YGWC-43	0.005	0.00099	0.01	No	14	0.004086	0.001819	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-49	0.005	0.00086	0.01	No	13	0.004035	0.001835	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-35	0.005	0.00069	0.01	No	6	0.003608	0.002158	66.67	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	PZ-37	0.005	0.0008	0.01	No	11	0.002504	0.001995	36.36	None	No	0.006	NP (normality)
Arsenic (mg/L)	YGWC-24SA	0.005	0.0015	0.01	No	18	0.004806	0.000825	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-36A	0.005	0.00088	0.01	No	18	0.004041	0.001847	77.78	None	No	0.01	NP (NDs)
Barium (mg/L)	YAMW-1	0.04981	0.02919	2	No	6	0.0395	0.007503	0	None	No	0.01	Param.
Barium (mɑ/L)	YGWC-23S	0.04499	0.02913	2	No	18	0.03706	0.01311	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-38	0.0239	0.01832	2	No	14	0.02111	0.003941	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-41	0.03029	0.0206	2	No	14	0.02544	0.00684	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-42	0.04675	0.03191	2	No	14	0.03933	0.01047	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-43	0.03572	0.01774	2	No	14	0.02673	0.01269	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-49	0.07999	0.06987	2	No	13	0.07493	0.006807	0	None	No	0.01	Param.
Barium (mg/L)	PZ-35	0.063	0.032	2	No	6	0.04	0.01166	0	None	No	0.0155	NP (normality)
Barium (mg/L)	PZ-37	0.05778	0.04078	2	No	- 11	0.04928	0.0102	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-24SA	0.0203	0.0189	2	No	18	0 02053	0.003411	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-36A	0.04411	0.03184	2	No	18	0.03797	0.01014	0	None	No	0.01	Param
Bervllium (mg/L)	YAMW-1	0.0005	0.000058	- 0.004	No	6	0 0004047	0.0001776	66 67	None	No	0.0155	NP (NDs)
Beryllium (mg/L)	YAMW-5	0.0002156	0 00005244	0.004	No	4	0.000134	0.00003593	3.0	None	No	0.01	Param
Beryllium (mg/L)	YGWC-23S	0.0005	0.000081	0.004	No	18	0.0002109	0.0001859	27 78	None	No	0.01	NP (normality)
Beryllium (mg/l )	YGWC-38	0.005497	0.004113	0.004	Yes	14	0.004743	0.001073	0	None	x^2	0.01	Param.
Beryllium (ma/L)	YGWC-41	0.0038	0.002	0.004	No	14	0.003	0.000862	0	None	No.	0.01	NP (normality)
Beryllium (mg/L)	YGWC-42	0.0005	0.000067	0.004	No	14	0.0003503	0.0002087	64 29	None	No	0.01	
Beryllium (mg/L)	YGWC-43	0.00053	0.0003	0.004	No	14	0.0004286	0.000133	12.86	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-49	0.00033	0.0003	0.004	No	13	0.0004200	0.0001088	7 602	None	No	0.01	NP (normality)
Beryllium (mg/L)	P7-35	0.00013	0.0001	0.004	No	7	0.0001400	0.0001188	28.57	Kanlan-Meier	No	0.01	Param
Beryllium (mg/L)	PZ-37	0.0004301	0.0002224	0.004	No	' 11	0.0003355	0.0001069	18 18	Kaplan-Meier	No	0.01	Param
Bonyllium (mg/L)	YGWC 2484	0.00016	0.0002031	0.004	No	10	0.0001911	0.000140	16.67	Nono	No	0.01	ND (normality)
Beryllium (mg/L)	YCWC 264	0.00010	0.0001	0.004	No	10	0.0001511	0.000149	10.07 E EEC	None	No	0.01	Derem
Codmium (mg/L)	YANNA 1	0.0005195	0.0001904	0.004	No	10	0.0002349	0.0001067	5.550	None	No	0.0155	Parani.
Cadmium (mg/L)	TAMW-1	0.0005	0.00013	0.005	NO No	0	0.0003233	0.000194	50	None	No	0.0155	
Cadmium (mg/L)	YGWC-23S	0.0005	0.00007	0.005	NO	18	0.0004761	0.0001014	94.44	None	NO	0.01	NP (NDS)
Cadmium (mg/L)	YGWC-38	0.002798	0.002139	0.005	NO	14	0.00235	0.0006149	0	None	x^4	0.01	Param.
Cadmium (mg/L)	YGWC-41	0.0005	0.00017	0.005	NO No	14	0.0002886	0.0001446	28.57	None	NO	0.01	NP (normality)
	rGWC-42	0.0006	0.00017	0.005	NO	14	0.0003764	0.0001667	42.86	None	INO	0.01	NP (normality)
Caomium (mg/L)	rGWC-49	0.0005	0.00007	0.005	NO	13	0.0004669	0.0001193	92.31	ivone	INO	0.01	
	PZ-35	0.0005	0.00016	0.005	NO	6	0.0004433	0.0001388	83.33	None	INO	0.0155	NP (NDS)
Cadmium (mg/L)	PZ-37	0.0006329	0.0002453	0.005	No	11	0.0004727	0.0002328	18.18	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	YGWC-36A	0.0005	0.00015	0.005	No	18	0.0002433	0.0001453	22.22	None	No	0.01	NP (normality)
Chromium (mg/L)	YAMW-1	0.001163	0.0003768	U.1	No	4	0.00077	0.0001732	0	None	No	0.01	Param.
Chromium (mg/L)	YGWC-23S	0.005	0.0008	0.1	No	14	0.003296	0.002061	57.14	None	No	0.01	NP (NDs)

### State Confidence Intervals - All Results

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	<u>Sig.</u>	<u>N</u>	Mean	Std. Dev.	<u>%NDs</u>	ND Adj.	Transform	<u>Alpha</u>	Method
Chromium (mg/L)	YGWC-38	0.005	0.00065	0.1	No	14	0.004368	0.001607	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-41	0.005	0.00039	0.1	No	14	0.004671	0.001232	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-42	0.005	0.0013	0.1	No	14	0.004095	0.001807	78.57	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-43	0.005	0.00071	0.1	No	14	0.003755	0.002043	71.43	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-49	0.002	0.0014	0.1	No	12	0.001958	0.0009839	8.333	None	No	0.01	NP (normality)
Chromium (mg/L)	PZ-35	0.0012	0.0006	0.1	No	4	0.0007775	0.0002852	0	None	No	0.0625	NP (normality)
Chromium (mg/L)	PZ-37	0.005	0.0017	0.1	No	11	0.004055	0.001633	72.73	None	No	0.006	NP (NDs)
Chromium (mg/L)	YGWC-24SA	0.005	0.0011	0.1	No	14	0.004153	0.001684	78.57	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-36A	0.005	0.0013	0.1	No	14	0.004034	0.001699	71.43	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YAMW-1	0.02859	0.004268	0.035	No	7	0.01643	0.01106	28.57	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	YGWC-41	0.005	0.00069	0.035	No	14	0.003742	0.002072	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-42	0.0025	0.0017	0.035	No	14	0.0022	0.0008927	7.143	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-43	0.005	0.0016	0.035	No	14	0.00325	0.001688	42.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-49	0.005	0.0006	0.035	No	13	0.003654	0.002103	69.23	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-35	0.0059	0.005	0.035	No	6	0.00515	0.0003674	83.33	None	No	0.0155	NP (NDs)
Cobalt (mg/L)	PZ-37	0.0129	0.004336	0.035	No	11	0.008618	0.005139	0	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-36A	0.005	0.0006	0.035	No	18	0.003761	0.002058	72.22	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YAMW-1	0.8723	0.2073	6.92	No	5	0.5398	0.1984	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-23S	0.8108	0.3587	6.92	No	18	0.5848	0.3736	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-38	1.326	0.5981	6.92	No	14	0.962	0.5138	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-41	1.374	0.6299	6.92	No	14	1.032	0.5676	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-42	2.942	1.277	6.92	No	14	2.11	1.175	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-43	4.059	1.333	6.92	No	14	2.696	1.924	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-49	1.175	0.4779	6.92	No	13	0.8266	0.469	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-35	1.075	-0.04565	6.92	No	5	0.5146	0.3343	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37	2.039	1.437	6.92	No	- 11	1.749	0.4126	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-24SA	0.7865	0.4799	6.92	No	18	0.6332	0.2534	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-36A	1.095	0.5456	6.92	No	18	0.8205	0.4544	0	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-23S	0.12	0.049	4	No	19	0.09468	0.02023	84.21	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-38	0.24	0.034	4	No	15	0.1616	0.1178	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-41	0.11	0.1	4	No	15	0.1007	0.002582	86.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-42	0.1	0.06	4	No	15	0.08607	0.02601	73 33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-43	0 1159	0.05777	4	No	15	0 1069	0.05423	26.67	Kanlan-Meier	sart(x)	0.01	Param
Fluoride (mg/L)	YGWC-49	0.14	0.06	4	No	14	0.09929	0.02702	57 14	Kaplan-Meier	No.	0.01	NP (NDs)
Fluoride (mg/L)	P7-37	0.31	0.1	4	No	11	0 1773	0 1198	63.64	None	No	0.006	NP (NDs)
Fluoride (mg/L)	YGWC-24SA	0.1	0.098	4	No	19	0.09637	0.01535	89.47	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-364	0.1	0.030	4	No	10	0.09242	0.013308	63.16	None	No	0.01	
Lood (mg/L)		0.001	0.00010	- 0.0012	No	5	0.00242	0.000250	90	None	No	0.031	
Lead (mg/L)		0.001	0.00019	0.0013	No	J 16	0.0008016	0.0003022	75	None	No	0.031	
Lead (mg/L)	YGWC 28	0.001	0.00021	0.0013	No	14	0.0008010	0.0003029	79 57	None	No	0.01	
Lead (mg/L)	YGWC 41	0.001	0.0001	0.0013	No	14	0.0007541	0.0003032	64.20	None	No	0.01	
Lead (mg/L)	YGWC 42	0.001	0.00012	0.0013	No	14	0.0007341	0.0004210	71 42	None	No	0.01	
Lead (mg/L)	YGWC 42	0.001	0.00009	0.0013	No	14	0.0007422	0.0004243	71.43	None	No	0.01	
Lead (mg/L)	YGWC-43	0.001	0.00008	0.0013	NO	14	0.0008082	0.000335	00.04	None	NO	0.01	NP (NDs)
Lead (mg/L)	YGWC-49	0.001	0.000059	0.0013	NO	13	0.0009276	0.000261	92.31	None	NO	0.01	NP (NDS)
Lead (mg/L)	PZ-35	0.001	0.000087	0.0013	No	5	0.0006474	0.0004833	60	None	No	0.031	NP (NDs)
Lead (mg/L)	PZ-37	0.001	0.000088	0.0013	NO	11	0.0006066	0.0004535	54.55	None	NO	0.006	NP (NDS)
Lead (mg/L)	YGWC-24SA	0.001	0.00036	0.0013	No	16	0.0009008	0.0002768	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-36A	0.000658	0.0002358	0.0013	NO	16	0.0004956	0.0004239	12.5	None	x^(1/3)	0.01	Param.
Litnium (mg/L)	YAMW-1	0.0235	0.0006154	0.03	No	б	0.01255	0.008417	16.67	Kaplan-Meier	No	0.01	Param.
Litnium (mg/L)	YGWC-23S	0.0026	0.0018	0.03	No	18	0.002994	0.003057	5.556	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-38	0.008994	0.007591	0.03	No	14	0.008293	0.0009903	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-41	0.0044	0.0025	0.03	No	14	0.004314	0.003188	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-42	0.0478	0.02983	0.03	No	14	0.03881	0.01268	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-43	0.01912	0.01164	0.03	No	14	0.01538	0.005279	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-49	0.0039	0.0035	0.03	No	13	0.003708	0.0002465	0	None	No	0.01	NP (normality)

### State Confidence Intervals - All Results

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	<u>Sig.</u>	<u>N</u>	Mean	Std. Dev.	<u>%NDs</u>	ND Adj.	Transform	<u>Alpha</u>	Method
Lithium (mg/L)	PZ-35	0.015	0.001	0.03	No	6	0.005133	0.006226	16.67	None	No	0.0155	NP (normality)
Lithium (mg/L)	PZ-37	0.03042	0.02345	0.03	No	11	0.02679	0.004677	9.091	None	x^2	0.01	Param.
Lithium (mg/L)	YGWC-36A	0.006884	0.003471	0.03	No	18	0.005478	0.002992	5.556	None	x^(1/3)	0.01	Param.
Mercury (mg/L)	YGWC-23S	0.0002	0.00015	0.002	No	13	0.0001883	0.00003045	84.62	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-38	0.0002	80000.0	0.002	No	11	0.0001743	0.00005804	81.82	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-41	0.0002	0.0002	0.002	No	11	0.0001873	0.00004221	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-42	0.0002	0.0002	0.002	No	11	0.0001862	0.00004583	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-43	0.0002	0.0002	0.002	No	11	0.0001865	0.00004462	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-49	0.0002	0.00014	0.002	No	10	0.0001801	0.0000459	80	None	No	0.011	NP (NDs)
Mercury (mg/L)	PZ-37	0.0002	0.0002	0.002	No	11	0.0001873	0.00004221	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	YAMW-1	0.004895	0.001572	0.014	No	4	0.004925	0.003462	25	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	YGWC-42	0.01	0.00094	0.014	No	14	0.00525	0.004314	42.86	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-43	0.01	0.0011	0.014	No	14	0.005679	0.004493	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-49	0.01	0.0007	0.014	No	12	0.009225	0.002685	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-35	0.01	0.0019	0.014	No	4	0.007975	0.00405	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	PZ-37	0.01	0.0016	0.014	No	11	0.004818	0.004118	36.36	None	No	0.006	NP (normality)
Molybdenum (mg/L)	YGWC-36A	0.01	0.0025	0.014	No	14	0.007071	0.003747	57.14	None	No	0.01	NP (NDs)
Selenium (mg/L)	YAMW-1	0.0025	0.0019	0.05	No	6	0.0024	0.0002449	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	YAMW-4	0.016	0.0018	0.05	No	4	0.0057	0.006875	50	None	No	0.0625	NP (normality)
Selenium (mg/L)	YAMW-5	0.08521	0.01079	0.05	No	4	0.048	0.01639	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-23S	0.03964	0.02677	0.05	No	18	0.03321	0.01064	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-38	0.249	0.076	0.05	Yes	14	0.1755	0.07444	0	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-41	0.06577	0.04363	0.05	No	14	0.0547	0.01563	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-42	0.05735	0.04038	0.05	No	14	0.04886	0.01198	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-49	0.00899	0.006583	0.05	No	13	0.007646	0.00198	7.692	None	x^2	0.01	Param.
Selenium (mg/L)	PZ-37	0.3047	0.2211	0.05	Yes	11	0.2629	0.0502	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-36A	0.002744	0.001829	0.05	No	18	0.002433	0.0005931	33.33	Kaplan-Meier	No	0.01	Param.

# FIGURE A.

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Antimony Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Sanitas<sup>114</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.



Time Series

Constituent: Antimony Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Antimony Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Time Series



Constituent: Antimony Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.





Constituent: Arsenic Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.



Constituent: Arsenic Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Arsenic Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Time Series



Constituent: Arsenic Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values



Constituent: Barium Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values

Hollow symbols indicate censored values.



Constituent: Barium Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values





Constituent: Barium Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





Constituent: Barium Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Time Series

Constituent: Beryllium Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.



Constituent: Beryllium Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Beryllium Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





Constituent: Beryllium Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6


Time Series

Constituent: Boron Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

30 YGWA-39 (bg) ٠ YGWA-40 (bg) 24 YGWA-4I (bg) YGWA-5D (bg) 18 V mg/L YGWC-23S V YGWC-38 12 YGWC-41 . ۸ YGWC-42 6 ..... 0 4 4/9/19 3/21/20 3/4/21 6/2/16 5/15/17 4/27/18

Time Series

Constituent: Boron Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Boron Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.





Constituent: Boron Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series 0.004 YAMW-1 ٠ YAMW-2 0.0032 YAMW-4 . YAMW-5 0.0024 YGWA-17S (bg) ٠ mg/L YGWA-18I (bg) YGWA-18S (bg) . 0.0016 YGWA-20S (bg) V YGWA-21I (bg) 0.0008 Ω 6/6/16 5/18/17 4/29/18 4/11/19 3/22/20 3/4/21

> Constituent: Cadmium Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.



Time Series

Constituent: Cadmium Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Cadmium Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Time Series



Constituent: Cadmium Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG



Constituent: Calcium Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Time Series

Constituent: Calcium Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Calcium Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

Time Series



Constituent: Calcium Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Chloride Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





Constituent: Chloride Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



Constituent: Chloride Analysis Run 5/6/2021 8:33 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



Constituent: Chloride Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### Time Series



Constituent: Chromium Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Sanitas<sup>TM</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.



Time Series

Constituent: Chromium Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Chromium Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Time Series



Constituent: Chromium Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Time Series

Constituent: Cobalt Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.



Time Series

Constituent: Cobalt Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Cobalt Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Time Series



Constituent: Cobalt Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Combined Radium 226 + 228 Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG



Constituent: Combined Radium 226 + 228 Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



Constituent: Combined Radium 226 + 228 Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG



Constituent: Combined Radium 226 + 228 Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



Constituent: Fluoride Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.



Constituent: Fluoride Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Fluoride Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Time Series



Constituent: Fluoride Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Time Series

Constituent: Lead Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.



Time Series

Constituent: Lead Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Lead Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Time Series



Constituent: Lead Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Lithium Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.



Constituent: Lithium Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Lithium Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Time Series



Constituent: Lithium Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



Constituent: Mercury Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>114</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.



Constituent: Mercury Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Mercury Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Time Series



Constituent: Mercury Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Molybdenum Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Sanitas  $^{\rm W}$  v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.



Time Series

Constituent: Molybdenum Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Molybdenum Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Time Series



Constituent: Molybdenum Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 S.U.



3/22/20

3/4/21

Constituent: pH Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

4/11/19

4/29/18

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG



Constituent: pH Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

3

6/6/16

5/18/17



Constituent: pH Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

S.U



Time Series



Constituent: pH Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Time Series

Constituent: Selenium Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.



Time Series

Constituent: Selenium Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Selenium Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Time Series



Constituent: Selenium Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



Constituent: Sulfate Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.



Constituent: Sulfate Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values



Constituent: Sulfate Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG



Constituent: Sulfate Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series

e censored values.



Constituent: Thallium Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>114</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.



Time Series

Constituent: Thallium Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Thallium Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Time Series



Constituent: Thallium Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:34 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Constituent: Antimony (mg/L) Analysis Run 5/6/2021 8:36 PM

	V/A B 40 4/ 4	XAN04/ 0			VOMA 170 (h -)				
0/0/0010	Y AIVIVV-I	Y AIVIVV-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-181 (bg)	YGWA-185 (bg)	YGWA-20S (bg)	YGWA-211 (bg)
6/6/2016					-0.002	<0.003	<0.003	-0.002	-0.002
0/7/2010					< 0.003	0.0005 (1)	-0.000	<0.003	<0.003
7/27/2016					<0.003	0.0005 (J)	<0.003	<0.003	
//28/2016									<0.003
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
1/11/2017					<0.003	<0.003	<0.003		
1/13/2017								<0.003	<0.003
3/1/2017						<0.003	<0.003		
3/2/2017					<0.003				
3/6/2017								<0.003	0.0005 (J)
4/26/2017						<0.003	<0.003	<0.003	<0.003
5/2/2017					<0.003				
6/28/2017						<0.003	<0.003		
6/29/2017					<0.003			<0.003	<0.003
3/28/2018					<0.003	<0.003	<0.003		
3/29/2018								<0.003	<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	
9/24/2019									0.0035
9/25/2019					<0.003			<0.003	
9/26/2019	<0.003					0.00056 (J)	<0.003		
2/11/2020					<0.003	<0.003	<0.003		
2/12/2020								<0.003	0.0015 (J)
3/24/2020					<0.003	<0.003	<0.003	<0.003	0.0017 (.1)
3/25/2020	<0.003				0.000	0.000	0.000	0.000	0.0017 (0)
9/23/2020	0.000	<0.003	0 00065 (1)		<0.003	<0.003	<0.003		
9/24/2020	<0.003	-0.000	0.00000 (0)	0.00033.(1)	-0.000	-0.000	-0.000	<0.003	0.0047
2/9/2021	0.00037 ( 1)	<0.003	0.0011(1)	<0.003		<0.003	<0.003	0.00032 ( 1)	0.0013(1)
3/3/2021	0.025	<0.003	0.00062 (1)	-0.000	<0.003	<0.003	0.0005 (1)	<0.0002 (0)	0.0010 (0)
3/3/2021	0.020	~0.005	0.00002 (0)	<0.003	~0.000	~0.003	0.00007 (3)	~0.003	0.0014 ( 1)
J14/2021				~0.003					0.0014 (J)

Constituent: Antimony (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.003	<0.003	<0.003				
6/7/2016						<0.003			
7/26/2016			0.0003 (J)	<0.003	<0.003				
7/28/2016						<0.003			
8/30/2016									<0.003
9/14/2016			<0.003	<0.003	<0.003				
9/20/2016						<0.003			
11/2/2016			<0.003	<0.003					
11/4/2016					<0.003				
11/8/2016						<0.003			
11/16/2016									<0.003
1/12/2017				<0.003	<0.003				
1/13/2017			<0.003						
1/16/2017						<0.003			
2/27/2017									<0.003
3/6/2017			<0.003						
3/7/2017				<0.003	<0.003				
3/9/2017						<0.003			
5/1/2017			<0.003	<0.003					
5/2/2017					<0.003	<0.003			
5/10/2017									<0.003
6/27/2017				<0.003	<0.003				
6/29/2017			<0.003						
7/10/2017						<0.003			
7/11/2017									<0.003
10/11/2017	0.0006 (J)								
10/12/2017		<0.003					<0.003	<0.003	<0.003
11/20/2017	<0.003	<0.003					<0.003		
11/21/2017								<0.003	
1/10/2018		<0.003							
1/11/2018	<0.003							<0.003	
1/12/2018							<0.003		
2/19/2018		<0.003						<0.003	
2/20/2018	<0.003						<0.003		
3/29/2018			<0.003	<0.003	<0.003				
3/30/2018						<0.003			
4/3/2018	<0.003	<0.003					<0.003	<0.003	
4/4/2018									<0.003
6/27/2018								<0.003	
6/28/2018	<0.003	<0.003					<0.003		
8/7/2018	<0.003	<0.003					0.0015 (J)	<0.003	
9/20/2018									<0.003
9/24/2018	<0.003	<0.003					<0.003	<0.003	
3/4/2019			<0.003	<0.003	<0.003				
3/6/2019						<0.003			
4/3/2019			<0.003	<0.003	<0.003				
4/4/2019						<0.003			
8/21/2019	<0.003	<0.003							
8/22/2019							<0.003	<0.003	<0.003
9/24/2019				<0.003	<0.003				
9/25/2019			<0.003						
9/27/2019						0.00029 (J)			

Constituent: Antimony (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
2/12/2020	<0.003	<0.003	<0.003	<0.003	<0.003				
3/24/2020		<0.003		<0.003	<0.003				
3/25/2020	0.0014 (J)		<0.003				0.00063 (J)	<0.003	<0.003
3/26/2020						<0.003			
9/22/2020			<0.003	<0.003	<0.003				
9/24/2020	<0.003	<0.003				0.00085 (J)			<0.003
9/25/2020							0.00061 (J)	<0.003	
2/8/2021				<0.003	<0.003				
2/9/2021			<0.003			0.00052 (J)	0.00031 (J)		
2/10/2021	<0.003	<0.003						0.0014 (J)	0.00053 (J)
3/2/2021				<0.003	<0.003				
3/3/2021			<0.003						
3/4/2021	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003

Constituent: Antimony (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (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					
2/5/2014				<0.003					
8/5/2014 2/4/2015				<0.003					
2/4/2015				<0.003					
8/3/2015				<0.003					
2/16/2016				<0.003					
6/1/2016						<0.003	<0.003		
6/2/2016					<0.003				<0.003
7/25/2016							<0.003		<0.003
7/26/2016					0.0005 (J)	0.001 (J)			
8/30/2016			0.0028 (J)						
8/31/2016	<0.003			<0.003					
9/1/2016		<0.003							
9/13/2016						0.001 (J)	<0.003		
9/14/2016								<0.003	
9/15/2016					<0.003				
9/19/2016									<0.003
11/1/2016						0.0015 (J)			<0.003
11/2/2016					<0.003				
11/4/2016							<0.003	<0.003	
11/14/2016			<0.003						
11/15/2016		<0.003							
11/16/2016	<0.003								
11/28/2016				0.0014 (J)					
12/15/2016								0.0012 (J)	
1/10/2017					<0.003				
1/11/2017						<0.003			
1/16/2017							<0.003	<0.003	<0.003
2/21/2017									<0.003
2/22/2017				<0.003					
2/24/2017	<0.003		<0.003						
2/27/2017	-0.000	0.0011 (1)	-0.000						
3/2/2017		0.0011(0)				0.0004 (1)	<0.003		
3/2/2017						0.0004 (0)	-0.000	<0.003	
3/8/2017					<0.003			-0.005	
J/0/2017					~0.003				<0.003
4/20/2017					~0.003	0.0004 (1)	0.0017 (1)		<u>~0.005</u>
4/2//2017						0.0004 (J)	0.0017 (J)	0.0015 (1)	
4/28/2017			0.0004 (1)	-0.000				0.0015 (J)	
5/8/2017			0.0004 (J)	<0.003					

#### Constituent: Antimony (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
5/9/2017		<0.003							
5/10/2017	<0.003								
5/26/2017								0.0005 (J)	
6/27/2017						<0.003	<0.003		
6/28/2017								<0.003	
6/30/2017					<0.003				<0.003
7/11/2017	<0.003		0.0006 (J)						
7/13/2017		<0.003							
7/17/2017				<0.003					
10/10/2017			<0.003						
10/11/2017		<0.003							
10/12/2017	<0.003								
10/16/2017				<0.003					
2/19/2018				<0.003					
3/27/2018					< 0.003		< 0.003		< 0.003
3/28/2018								<0.003	
3/29/2018						<0.003		0.000	
4/2/2018			<0.003			0.000			
4/4/2018	<0.003	<0.003	-0.000						
8/6/2018	-0.003	-0.005		<0.003					
0/10/2018			<0.003	-0.000					
9/19/2018	~0.002	<0.002	~0.005						
9/20/2018	<0.003	<0.003		<0.002					
2/25/2019				<0.003	-0.002				<0.002
2/20/2019					<0.003	-0.000	-0.000	-0.000	<0.003
2/2//2019						<0.003	<0.003	<0.003	
6/12/2019				<0.003					
8/19/2019				<0.003					
8/20/2019			<0.003						
8/21/2019	<0.003								
9/26/2019		<0.003							
10/8/2019				<0.003					
2/10/2020						0.00088 (J)	<0.003		
2/11/2020								0.00036 (J)	
2/12/2020					<0.003				<0.003
3/17/2020				<0.003					
3/18/2020					<0.003		0.0004 (J)		
3/19/2020						<0.003		0.0003 (J)	<0.003
3/25/2020	0.00031 (J)	0.00053 (J)							
8/26/2020				0.00042 (J)					
8/27/2020			0.00048 (J)						
9/22/2020			<0.003	0.00044 (J)					
9/23/2020						<0.003	<0.003	<0.003	
9/24/2020		<0.003							<0.003
9/25/2020	<0.003				<0.003				
2/9/2021	<0.003	<0.003							
2/10/2021					<0.003			0.0013 (J)	
2/11/2021									<0.003
2/12/2021						<0.003	<0.003		
3/1/2021			0.00048 (J)						<0.003
3/2/2021				<0.003	<0.003				
3/3/2021						<0.003	<0.003	<0.003	
3/4/2021	< 0.003	< 0.003							

Constituent: Antimony (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		<0.003				
6/2/2016	<0.003					
6/8/2016					<0.003	
7/25/2016		<0.003				
7/26/2016	0.002 (J)					
8/1/2016					<0.003	
9/2/2016						<0.003
9/14/2016		<0.003				
9/15/2016	0.0027 (J)					
9/20/2016					0.0009 (J)	
11/1/2016	<0.003	<0.003				
11/8/2016					<0.003	
11/14/2016						0.0014 (J)
1/11/2017	<0.003	<0.003				
1/17/2017					<0.003	
2/28/2017						0.0004 (J)
3/1/2017		<0.003				
3/2/2017	0.0008 (J)					
3/8/2017					<0.003	
4/26/2017	<0.003	<0.003				
5/2/2017					<0.003	
5/9/2017						<0.003
6/28/2017	<0.003	<0.003				
7/7/2017					<0.003	
7/13/2017						<0.003
9/22/2017						<0.003
9/29/2017						<0.003
10/6/2017						<0.003
10/12/2017				<0.003		
11/21/2017				<0.003		
1/11/2018				<0.003		
2/20/2018				<0.003		
3/28/2018	<0.003	<0.003				
3/30/2018					<0.003	<0.003
4/3/2018				<0.003		
6/29/2018				<0.003		
8/6/2018				<0.003		
9/24/2018				<0.003		
2/27/2019	<0.003	<0.003				
3/5/2019					<0.003	
3/6/2019						0.0011 (J)
4/4/2019					<0.003	0.0041
9/26/2019			<0.003		<0.003	0.0065
2/11/2020		<0.003				
2/12/2020	<0.003					
3/19/2020	0.00064 (J)	<0.003				
3/25/2020			<0.003			0.0011 (J)
3/26/2020					<0.003	
9/23/2020	<0.003	<0.003			<0.003	
9/24/2020			<0.003			
9/25/2020				0.0014 (J)		
10/7/2020						<0.003

#### Constituent: Antimony (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
2/9/2021				0.00035 (J)	<0.003	
2/10/2021	<0.003	<0.003	<0.003			0.028
3/3/2021	<0.003	<0.003			<0.003	
3/4/2021			0.00039 (J)	<0.003		0.0015 (J)

Constituent: Arsenic (mg/L) Analysis Run 5/6/2021 8:36 PM

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (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
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
1/11/2017					<0.005	<0.005	<0.005		
1/13/2017								<0.005	<0.005
3/1/2017						<0.005	<0.005		
3/2/2017					<0.005				
3/6/2017								<0.005	0.0017 (J)
4/26/2017						<0.005	<0.005	<0.005	<0.005
5/2/2017					<0.005				
6/28/2017						<0.005	<0.005		
6/29/2017					<0.005			<0.005	<0.005
3/28/2018					<0.005	<0.005	0.00061 (J)		
3/29/2018								<0.005	0.0015 (J)
6/5/2018									0.0013 (J)
6/6/2018								<0.005	
6/7/2018						0.00066 (J)			
6/11/2018					<0.005		<0.005		
9/25/2018					<0.005	<0.005	<0.005	<0.005	0.0022 (J)
10/16/2018	<0.005								
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	
9/24/2019									0.0026 (J)
9/25/2019					<0.005			<0.005	0.0020(0)
9/26/2019	<0.005					<0.005	<0.005		
2/11/2020	0.000				0 0022 (.1)	0 0014 (.1)	0.0026 (.1)		
2/12/2020					0.0022 (0)	0.0011(0)	0.0020(0)	<0.005	0.0025 (J)
3/24/2020					<0.005	<0.005	<0.005	<0.005	0.0013(J)
3/25/2020	<0.005				0.000	0.000	0.000	0.000	1.0010(0)
9/23/2020	0.000	<0.005	<0.005		<0.005	<0.005	<0.005		
9/24/2020	<0.005	-0.000	-0.000	0.0015 (.1)	-0.000	-0.000	-0.000	<0.005	0.0014 (1)
2/9/2021	<0.005	<0.005	0.001 (1)	0.00095 (1)		<0.005	<0.005	<0.005	0.001 (1)
3/3/2021	<0.005	<0.000		0.00000 (0)	<0.005	<0.000	<0.005	<0.005	0.001 (0)
3/4/2021	~0.000	~0.000	0.00079 (3)	<0.005	~0.000	NUUUU	~0.000	<b>∼0.00</b> 0	0 00078 ( 1)
3/4/2UZ I				~0.005					0.00078 (J)

Constituent: Arsenic (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (ba)	YGWA-40 (ba)	YGWA-4I (ba)	YGWA-5D (ba)	YGWA-5I (ba)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016	: diff ( 66 (5g)	1 GTM 1 10 (5g)	<0.005	0.00071 (J)	<0.005	10110 200	14110 00		
6/7/2016			0.000	0.00071(0)	0.000	<0.005			
7/26/2016			<0.005	0.001 (.1)	<0.005				
7/28/2016						<0.005			
8/30/2016						0.000			0 0023 (.1)
9/14/2016			<0.005	<0.005	<0.005				0.0020(0)
9/20/2016			0.000	0.000	0.000	<0.005			
11/2/2016			<0.005	<0.005		0.000			
11/4/2016			-0.000	-0.000	<0.005				
11/8/2016					-0.000	<0.005			
11/16/2016						0.000			0.0017 (.1)
1/12/2017				<0.005	<0.005				0.0017 (3)
1/13/2017			<0.005	-0.000	-0.000				
1/16/2017			-0.000			<0.005			
2/27/2017						<0.005			0.002 (1)
3/6/2017			<0.005						0.002 (3)
3/7/2017			~0.005	0.0012(1)	<0.005				
3/9/2017				0.0012 (3)	<0.005	<0.005			
5/9/2017			<0.00F	<0.00F		<0.005			
5/1/2017			<0.005	<0.005	<0.005	<0.005			
5/2/2017					<0.005	<0.005			0.0022 ( 1)
5/10/2017				0.0010 ( 1)	<0.00F				0.0022 (J)
6/27/2017			-0.005	0.0019(3)	<0.005				
6/29/2017			<0.005			<0.00F			
7/10/2017						<0.005			0.000 (1)
//11/2017	0.0000 ( 1)								0.003 (J)
10/11/2017	0.0009 (J)	-0.005					0.0000 (1)	0.0011 (1)	0.0001 ( 1)
10/12/2017	-0.005	<0.005					0.0023 (J)	0.0011 (J)	0.0031 (J)
11/20/2017	<0.005	<0.005					0.0008 (J)	-0.005	
11/21/2017		0.005						<0.005	
1/10/2018	-0.005	<0.005						-0.005	
1/11/2018	<0.005						0.001 (1)	<0.005	
1/12/2018		-0.005					0.001 (J)	-0.005	
2/19/2018	-0.005	<0.005					0.00000 ( 1)	<0.005	
2/20/2018	<0.005		<0.00F	0.0006 ( 1)	<0.00F		0.00096 (J)		
3/29/2018			<0.005	0.0006 (3)	<0.005	<0.00F			
3/30/2018	-0.005	-0.005				<0.005	0.0015 (1)	0.00070 ( 1)	
4/3/2018	<0.005	<0.005					0.0015 (J)	0.00072 (J)	0.0022 ( 1)
4/4/2018				0.0012 (1)					0.0023 (J)
6/0/2018			0.00050 ( 1)	0.0013 (3)	<0.00F				
6/7/2018			0.00059 (J)		<0.005	10.005			
6/12/2018						<0.005		0.00062 ( 1)	
6/27/2018	-0.005	-0.005					0.0017 (1)	0.00062 (J)	
6/28/2018	<0.005	<0.005					0.0017 (J)	0.005	
8/7/2018	<0.005	<0.005					0.00072 (J)	<0.005	0.0018 / 1
9/20/2018	-0.005	-0.005					0.0017 (1)	0.001 (1)	0.0018 (J)
9/24/2018	<0.005	<0.005	-0.005	0.0014 (1)	-0.005		0.0017 (J)	0.001 (J)	
9/26/2018			<0.005	0.0014 (J)	<0.005	0.005			
9/2//2018			0.005	0.005	0.005	<0.005			
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019						<0.005			
4/3/2019			<0.005	<0.005	<0.005				
4/4/2019						<0.005			

#### Constituent: Arsenic (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
8/21/2019	0.00058 (J)	<0.005							
8/22/2019							0.00055 (J)	0.00036 (J)	0.00089 (J)
9/24/2019				0.00043 (J)	<0.005				
9/25/2019			<0.005						
9/27/2019						<0.005			
10/9/2019	0.00063 (J)	<0.005					0.00057 (J)	0.00052 (J)	0.00078 (J)
2/12/2020	0.00058 (J)	0.0034 (J)	<0.005	0.0046 (J)	0.002 (J)				
3/24/2020		<0.005		0.00065 (J)	<0.005				
3/25/2020	0.0012 (J)		<0.005				0.00068 (J)	0.001 (J)	0.0013 (J)
3/26/2020						0.0012 (J)			
9/22/2020			<0.005	0.001 (J)	<0.005				
9/24/2020	<0.005	<0.005				<0.005			<0.005
9/25/2020							<0.005	<0.005	
2/8/2021				<0.005	<0.005				
2/9/2021			<0.005			<0.005	0.00098 (J)		
2/10/2021	<0.005	<0.005						<0.005	0.0016 (J)
3/2/2021				<0.005	<0.005				
3/3/2021			<0.005						
3/4/2021	<0.005	<0.005				<0.005	<0.005	<0.005	<0.005

Constituent: Arsenic (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (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					
2/4/2015				<0.005					
8/3/2015				<0.005					
2/16/2016				<0.005		0.0001	-0.005		
6/1/2016					-0.005	0.0021	<0.005		10.005
6/2/2016					<0.005				<0.005
//25/2016							<0.005		<0.005
7/26/2016					<0.005	0.0016 (J)			
8/30/2016			<0.005						
8/31/2016	<0.005			<0.005					
9/1/2016		<0.005							
9/13/2016						<0.005	<0.005		
9/14/2016								<0.005	
9/15/2016					<0.005				
9/19/2016									<0.005
11/1/2016						<0.005			<0.005
11/2/2016					<0.005				
11/4/2016							<0.005	0.0017 (J)	
11/14/2016			<0.005						
11/15/2016		<0.005							
11/16/2016	<0.005								
11/28/2016				<0.005					
12/15/2016								0.0023 (J)	
1/10/2017					<0.005				
1/11/2017						0.0017 (J)			
1/16/2017							<0.005	0.0018 (J)	<0.005
2/21/2017									<0.005
2/22/2017				<0.005					
2/24/2017	<0.005		<0.005						
2/27/2017		<0.005							
3/2/2017						0.0014 (J)	<0.005		
3/3/2017								0.0016 (J)	
3/8/2017					<0.005				
4/26/2017					<0.005				<0.005
4/27/2017						0.0018 (J)	<0.005		
4/28/2017						. ,		0.002 (J)	
5/8/2017			<0.005	<0.005				1-7	

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
5/9/2017		<0.005							
5/10/2017	<0.005								
5/26/2017								0.0005 (J)	
6/27/2017						0.0018 (J)	<0.005		
6/28/2017								0.0016 (J)	
6/30/2017					<0.005				<0.005
7/11/2017	<0.005		<0.005						
7/13/2017		<0.005							
7/17/2017				<0.005					
10/10/2017			0.0007 (J)						
10/11/2017		0.0006 (J)							
10/12/2017	<0.005								
10/16/2017				<0.005					
2/19/2018				<0.005					
3/27/2018					<0.005		<0.005		<0.005
3/28/2018								0.0013 (J)	
3/29/2018						0.0017 (J)			
4/2/2018			<0.005						
4/4/2018	<0.005	<0.005							
6/5/2018						0.0013 (J)			
6/6/2018						0.0010(0)	<0.005		
6/7/2018							-0.000	0 00082 ( 1)	
6/8/2018					<0.005			0.00002 (3)	
6/11/2018					~0.005				<0.005
9/6/2019				<0.005					~0.005
8/0/2018			0.00070 (1)	<0.005					
9/19/2018	0.00000 ( 1)	0.001 (1)	0.00072 (J)						
9/20/2018	0.00099 (J)	0.001 (J)							
10/1/2018					<0.005	0.0016 (J)	<0.005	0.0011 (J)	
10/2/2018									<0.005
2/25/2019				<0.005					
2/26/2019					<0.005				<0.005
2/27/2019						0.0015 (J)	<0.005	0.001 (J)	
3/28/2019						0.00072 (J)	<0.005		
3/29/2019					<0.005			0.00063 (J)	
4/1/2019									<0.005
6/12/2019				0.00038 (J)					
8/19/2019				0.00095 (J)					
8/20/2019			<0.005						
8/21/2019	<0.005								
9/24/2019						0.0014 (J)	<0.005	<0.005	
9/25/2019					<0.005				<0.005
9/26/2019		<0.005							
10/8/2019			<0.005	<0.005					
10/9/2019	0.00051 (J)								
2/10/2020						0.0026 (J)	0.0005 (J)		
2/11/2020								0.0044 (J)	
2/12/2020					<0.005				0.0032 (J)
3/17/2020			<0.005	<0.005					
3/18/2020					<0.005		<0.005		
3/19/2020						0.00095 (J)		0.00066 (J)	<0.005
3/25/2020	0.0007 (J)	0.00086 (J)							
8/26/2020	. ,	. ,		<0.005					

8/27/2020	YGWC-43	YGWC-49	YGWA-47 (bg) <0.005	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
9/22/2020			<0.005	<0.005					
9/23/2020						0.0011 (J)	<0.005	0.001 (J)	
9/24/2020		<0.005							<0.005
9/25/2020	<0.005				<0.005				
2/9/2021	<0.005	<0.005							
2/10/2021					<0.005			<0.005	
2/11/2021									<0.005
2/12/2021						<0.005	<0.005		
3/1/2021			<0.005						<0.005
3/2/2021				<0.005	<0.005				
3/3/2021						<0.005	<0.005	0.00098 (J)	
3/4/2021	<0.005	<0.005							

#### Constituent: Arsenic (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		<0.005				
6/2/2016	<0.005					
6/8/2016					<0.005	
7/25/2016		<0.005				
7/26/2016	<0.005					
8/1/2016					<0.005	
9/2/2016						<0.005
9/14/2016		<0.005				
9/15/2016	<0.005					
9/20/2016					<0.005	
11/1/2016	<0.005	<0.005				
11/8/2016					<0.005	
11/14/2016						<0.005
1/11/2017	<0.005	<0.005				
1/17/2017					<0.005	
2/28/2017						0.0006 (J)
3/1/2017		0.0004 (J)				
3/2/2017	<0.005					
3/8/2017					<0.005	
4/26/2017	<0.005	<0.005				
5/2/2017					<0.005	
5/9/2017						0.0006 (J)
6/28/2017	0.0007 (J)	0.0011 (J)				
7/7/2017					<0.005	
7/13/2017						<0.005
9/22/2017						<0.005
9/29/2017						<0.005
10/6/2017						<0.005
10/12/2017				0.0014 (J)		
11/21/2017				0.0008 (J)		
1/11/2018				0.0006 (J)		
2/20/2018				<0.005		
3/28/2018	<0.005	<0.005		0.000		
3/30/2018	-0.000	-0.000			<0.005	<0.005
4/3/2018				0.0012(1)	<0.003	~0.003
6/7/2018	<0.005			0.0012 (0)		
6/9/2019	<0.003	<0.005				
6/12/2019		<0.005			<0.005	
6/12/2018					<0.005	0.00066 ( ))
6/13/2018				0.0011 (1)		0.00066 (3)
6/29/2018				0.0011 (J)		
8/6/2018				<0.005		
9/24/2018				0.00094 (J)	0.005	0.005
9/26/2018					<0.005	<0.005
10/1/2018	<0.005	<0.005	0.00000 ( ))			
10/16/2018	0.005	.0.005	0.0006A (1)			
2/2//2019	<0.005	<0.005				
3/5/2019					<0.005	
3/6/2019						<0.005
4/1/2019	<0.005	<0.005				
4/4/2019					<0.005	<0.005
9/25/2019	<0.005	<0.005				
9/26/2019			<0.005		<0.005	<0.005

	YGWA-3D (ba)	YGWA-3I (ba)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
2/11/2020		0.0041 (J)				
2/12/2020	0.0038 (J)					
3/19/2020	<0.005	<0.005				
3/25/2020			<0.005			<0.005
3/26/2020					0.0015 (J)	
9/23/2020	<0.005	<0.005			<0.005	
9/24/2020			<0.005			
9/25/2020				<0.005		
10/7/2020						<0.005
2/9/2021				0.0015 (J)	<0.005	
2/10/2021	0.00094 (J)	0.00078 (J)	0.00096 (J)			0.00088 (J)
3/3/2021	<0.005	<0.005			<0.005	
3/4/2021			<0.005	<0.005		<0.005

Constituent: Barium (mg/L) Analysis Run 5/6/2021 8:36 PM

6/6/2016	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg) 0.028	YGWA-18S (bg) 0.019	YGWA-20S (bg)	YGWA-21I (bg)
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)
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)
1/11/2017					0.0142	0.0266	0.0162		
1/13/2017								0.0158	0.0105
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				
6/28/2017						0.0237	0.018		
6/29/2017					0.0128			0.017	0.0109
3/28/2018					0.014	0.024	0.021		
3/29/2018								0.014	<0.01
6/5/2018									0.011
6/6/2018								0.015	
6/7/2018						0.023			
6/11/2018					0.013		0.019		
9/25/2018					0.014	0.023	0.019	0.015	0.011
10/16/2018	0.048								
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	
9/24/2019									0.011
9/25/2019					0.015			0.014	
9/26/2019	0.047					0.021	0.017		
2/11/2020					0.015	0.022	0.019		
2/12/2020								0.014	0.011
3/24/2020					0.015	0.021	0.017	0.015	0.011
3/25/2020	0.04								
9/23/2020		0.0092 (J)	0.0063 (J)		0.015	0.021	0.016		
9/24/2020	0.028			0.057				0.015	0.01
2/9/2021	0.039	0.0085 (J)	0.02	0.042		0.023	0.017	0.015	0.011
3/3/2021	0.035	0.0082	0.021		0.017	0.023	0.017	0.015	
3/4/2021				0.039					0.011

Constituent: Barium (mg/L) Analysis Run 5/6/2021 8:36 PM

67/2016     0.014M-0.020     0.014M-0.020     0.014M-0.020     0.014C-23     0.014C-23     0.014C-23     0.014C-23     0.014C-23     0.045       67/2016     0.015     0.015     0.015     0.045     0.045       7/26/2016     0.0158     0.017     0.045     0.051     0.045       8/30/2016     0.0181     0.0181     0.0511     0.0455       9/14/2016     0.0143     0.0051/0     0.0181     0.0455       11/2/2016     0.0143     0.0091/0     0.0561     0.0455       11/2/2016     0.0148     0.0091/0     0.0561     0.0561       11/2/2017     0.0146     0.0165     0.0561     0.0561       11/16/2017     0.0146     0.0166     0.0573       11/16/2017     0.0146     0.009 //0     0.0528     0.0573       11/2/2017     0.0141     0.0202     0.0427     0.0517       11/2/2017     0.0149     0.0202     0.0427     0.0517       11/2/2017     0.0154     0.0140     0.0204     0.0204     0.0341       11/12/2017     0.0154     0.0154     0.0451     0.0451     1
0.222010     0.013     0.004     0.019       7/2562016     0.0158     0.0179       7/2562016     0.0143     0.0079       8302016     0.0143     0.0085 (J)     0.0181       9/14/2016     0.0143     0.0091 (J)     0.0561       11/22016     0.0148     0.0091 (J)     0.0561       11/22016     0.0148     0.0091 (J)     0.0541       11/22017     0.0165     0.0541       11/22017     0.0089 (J)     0.0199     0.0541       11/12017     0.0146     0.0091 (J)     0.0528       11/12017     0.0140     0.0093 (J)     0.0528       2/27/2017     0.0149     0.0093 (J)     0.0459       3/92017     0.0149     0.0093 (J)     0.0429       3/92017     0.0149     0.0093 (J)     0.0429       5/12017     0.0149     0.0093 (J)     0.0427       5/12017     0.0154     0.0154     0.0517       6/222017     0.0154     0.0395     0.0451       7/112017     0.0251     0.0429     0.0429       11/120217     0.0024 (J)     0.0395     0.0451
7/28/2016     0.0158     0.01     0.073       7/28/2016     0.0131     0.051       8/30/2016     0.013     0.051       9/14/2016     0.0143     0.009 (J)     0.051       9/20/2016     0.0148     0.0091 (J)     0.051       11/12/2016     0.0148     0.0091 (J)     0.051       11/12/2016     0.0148     0.0091 (J)     0.054       11/16/2016     0.0146     0.0199     0.054       11/16/2017     0.0146     0.0091 (J)     0.0528       11/16/2017     0.0146     0.0092 (J)     0.0528       2/27/2017     0.0141     0.0091 (J)     0.0196       3/2017     0.0014     0.0092 (J)     0.0469       3/2017     0.0014     0.0022 (D)     0.0427       3/2017     0.0014     0.0022 (D)     0.0427       5/102017     0.0014     0.0141     0.011       5/102017     0.0014     0.0141     0.011       5/102017     0.0014     0.0141     0.011       5/102017     0.0014     0.0141     0.011       5/102017     0.0014     0.0395
1/28/2016     0.01/3     0.01     0.01/3       9/28/2016     0.0143     0.0085 (.))     0.0181     0.0051       9/202016     0.0143     0.0091 (.))     0.0161     0.0161       11/202016     0.0148     0.0091 (.))     0.0165     0.0541       11/202016     0.0148     0.0091 (.))     0.0185     0.0541       11/202016     0.0146     0.0541     0.0541       11/202017     0.0146     0.0528     0.0573       11/202017     0.0141     0.0528     0.0573       3/202017     0.0141     0.0149     0.0573       3/202017     0.0141     0.0202     0.0427       5/102017     0.0154     0.0154     0.0517       5/102017     0.0154     0.0154     0.0517       5/102017     0.0154     0.0202     0.0427       5/102017     0.0154     0.0351     0.0517       5/102017     0.0154     0.0355     0.0451       5/102017     0.0154     0.0355     0.0451       10/1120217     0.0305 (.))     0.0395     0.0451       10/1120217     0.0301()
1/12/2016     0.0143     0.0085 (J)     0.0181     0.0455       97/4/2016     0.0143     0.0085 (J)     0.0181     1       11/2/2016     0.0148     0.0091 (J)     1     1       11/2/2016     0.0148     0.0091 (J)     1     1       11/2/2016     0.0148     0.0091 (J)     0.054     0.0541       11/16/2016     0.0046     0.054     0.0541     0.0541       11/12/2017     0.0046     0.0528     0.0573       2/2/2/2017     0.0144     0.009 (J)     0.0196     0.0573       3/0/2017     0.0141     0.009 (J)     0.0196     0.0573       3/0/2017     0.0149     0.0083 (J)     0.0469     0.0469       5/1/2017     0.0149     0.0083 (J)     0.0141     0.0517       5/1/2017     0.0149     0.0083 (J)     0.0141     0.0517       5/1/2017     0.0154     0.0225     0.0469     0.0151       5/1/2017     0.00154     0.0395     0.0395     0.0451       5/1/2017     0.0052     0.0395     0.0451     0.0451       5/1/2017     0.00524     0.
BASACH     0.0051     0.0053       9/4/2016     0.0143     0.005(1)     0.0151       11/2016     0.0148     0.0091(1)     0.0165       11/4/2016     0.0146     0.0165     0.0541       11/1/2017     0.0089(1)     0.0199     0.0528       1/1/2017     0.0166     0.0528     0.0573       1/1/2017     0.0146     0.0099(1)     0.0528       2/27/2017     0.0146     0.0528     0.0573       3/6/2017     0.0149     0.009 (1)     0.0528     0.0573       3/6/2017     0.0149     0.009 (1)     0.0196     1       3/7/2017     0.0149     0.0083 (1)     0.0220     0.0427       5/1/2017     0.0149     0.0083 (1)     0.0220     0.0427       5/1/2017     0.0149     0.0083 (1)     0.021     0.0517       5/1/2017     0.0154     0.0074 (1)     0.0220     0.0427       5/1/2017     0.0154     0.0395     0.0451       6/29/2017     0.0292 (1)     0.0451     0.0451       1/1/2017     0.0292 (1)     0.0292 (1)     0.0451       1/1/2017
9/20/2016     0.0143     0.0085 (J)     0.0561       9/20/2016     0.0148     0.0091 (J)     0.0561       11/4/2016     0.0148     0.0093 (J)     0.0541       11/8/2016     0.0089 (J)     0.0190     0.0541       11/1/2/2017     0.0089 (J)     0.0190     0.0541       11/1/2/2017     0.0146     0.0558     0.0573       11/1/2/2017     0.0146     0.05573     0.0573       2/2//2017     0.0141     0.0196     0.0573       3/6/2017     0.0141     0.0196     0.0573       3/2/2017     0.0141     0.0196     0.0573       3/2/2017     0.0149     0.0020     0.0469       5/1/2017     0.0154     0.0202     0.0427       5/1/2017     0.0154     0.0202     0.0427       5/1/2017     0.0154     0.0395     0.0517       6/2/2017     0.0154     0.0345     0.0451       7/10/2017     0.0154     0.0345     0.0451       7/11/2017     0.0328     0.034     0.0340       10/11/2017     0.0324     0.021     0.0255
31/2016     0.0148     0.0091 (J)       11/2016     0.0148     0.0091 (J)       11/8/2016     0.0165     0.054       11/16/2017     0.0089 (J)     0.0199       11/3/2017     0.0146     0.0528       11/16/2017     0.0146     0.0528       2/2/2017     0.0141     0.0573       3/9/2017     0.0141     0.0573       3/9/2017     0.0141     0.0528       3/9/2017     0.0141     0.0573       3/9/2017     0.0141     0.0523       5/1/2017     0.0149     0.0083 (J)       5/1/2017     0.0149     0.0083 (J)       5/1/2017     0.0149     0.0022     0.0469       5/1/2017     0.0154     0.0074 (J)     0.0184       6/29/2017     0.0154     0.0395     0.0517       5/1/2017     0.0154     0.0395     0.0451       6/29/2017     0.0154     0.0395     0.0451       7/10/2017     0.0328     0.0324     0.0429       11/12/2017     0.0381 (J)     0.0571     0.0255
11/42016     0.0148     0.0091 (J)       11/42016     0.0165       11/16/2017     0.0089 (J)     0.0199       1/1/22017     0.0146     0.0528       1/1/22017     0.0146     0.0528       1/1/22017     0.0146     0.0573       1/1/22017     0.0141     0.0573       3/6/2017     0.0149     0.0196       3/9/2017     0.0149     0.0196       5/1/2017     0.0149     0.0093 (J)       5/1/2017     0.0149     0.0022     0.0427       5/1/2017     0.0149     0.0022     0.0427       5/1/2017     0.0149     0.0024     0.0427       5/1/2017     0.0149     0.0141     0.0573       5/1/2017     0.0149     0.0022     0.0427       5/1/2017     0.0154     0.027     0.0517       6/29/2017     0.0154     0.0395     0.0451       7/102017     0.0154     0.0451     0.0451       1/1/2017     0.0092 (J)     0.0284     0.0269     0.0394       1/1/2017     0.0081 (J)     0.027     0.0255     0.0255
11/4/2016     0.0165       11/4/2016     0.054       11/1/2017     0.0089 (J)     0.0199       1/1/2017     0.0146     0.0528       2/27/2017     0.0141     0.0573       3/6/2017     0.0149     0.0196       3/9/2017     0.0141     0.0469       3/9/2017     0.0149     0.0083 (J)       5/1/2017     0.0149     0.0083 (J)       5/1/2017     0.0149     0.0083 (J)       5/1/2017     0.0149     0.0083 (J)       5/1/2017     0.0149     0.0022     0.0427       5/1/2017     0.0154     UNER     UNER       5/1/2017     0.0154     UNER     UNER       6/29/2017     0.0154     UNER     UNER       7/1/2017     0.0154     UNER     UNER       7/1/2017     0.0092 (J)     UNER     UNER       10/11/2017     0.0092 (J)     UNER     UNER       11/20/2017     0.0081 (J)     0.0571
11/16/2016     0.054       11/16/2016     0.0089 (J)     0.0199       1/13/2017     0.0146     0.5528       2/27/2017     0.0141     0.0573       3/6/2017     0.0141     0.0199       3/6/2017     0.0141     0.0573       3/6/2017     0.0141     0.0469       3/9/2017     0.0149     0.0196       3/9/2017     0.0149     0.0083 (J)       5/1/2017     0.0149     0.0083 (J)       5/1/2017     0.0149     0.0020     0.0469       5/1/2017     0.0154     0.0517       6/27/2017     0.0154     0.0395     0.0517       6/29/2017     0.0154     0.0395     0.0451       11/1/12017     0.0092 (J)     0.0154     0.0395       7/1/12017     0.0092 (J)     0.0451     0.0451       10/12017     0.0092 (J)     0.0511     0.0425
11/16/2016     0.0089 (J)     0.0199     0.0141       11/16/2017     0.0146     0.0528     0.0573       2/27/2017     0.0141     0.0573     0.0573       3/6/2017     0.0141     0.0196     0.0573       3/9/2017     0.0149     0.0196     0.0146       3/9/2017     0.0149     0.0196     0.0146       5/1/2017     0.0149     0.0196     0.0146       5/1/2017     0.0149     0.0202     0.0427       5/1/2017     0.0149     0.0020     0.0427       5/1/2017     0.0074 (J)     0.0184     0.0517       6/27/2017     0.0154     0.0395     0.0451       7/1/1/2017     0.0092 (J)     0.0395     0.0429       10/1/2017     0.0081 (J)     0.0511     0.0255
1/12/2017     0.0039 (.)     0.0199       1/13/2017     0.0146     0.0528       2/27/2017     0.0141     0.0573       3/6/2017     0.0141     0.0469       3/9/2017     0.0149     0.0196       5/1/2017     0.0149     0.0083 (.)       5/1/2017     0.0149     0.0083 (.)       5/1/2017     0.0149     0.0083 (.)       5/1/2017     0.0149     0.0083 (.)       5/1/2017     0.0149     0.0083 (.)       5/1/2017     0.0149     0.0074 (.)     0.0427       5/1/2017     0.0154      0.0395       6/29/2017     0.0154      0.0395       7/11/2017     0.0022 (.)     0.0269     0.0394     0.0429       10/11/2017     0.0381 (.)     0.0671     0.0255
1/13/2017     0.0146       1/16/2017     0.0528       2/27/2017     0.0141       3/6/2017     0.0141       3/7/2017     0.009 (J)     0.0196       3/9/2017     0.009 (J)     0.0196       3/9/2017     0.0149     0.0083 (J)       5/1/2017     0.0149     0.0020       5/1/2017     0.00149     0.0020       5/1/2017     0.00149     0.0020       5/1/2017     0.00149     0.0020       6/27/2017     0.0074 (J)     0.0184       6/29/2017     0.0154     0.0395       7/11/2017     0.0328     0.0451       10/11/2017     0.0328     0.0324     0.0394       11/20/2017     0.0081 (J)     0.0671     0.0255
1/16/2017     0.0528       2/27/2017     0.0141       3/7/2017     0.009 (J)     0.0196       3/9/2017     0.009 (J)     0.0196       5/1/2017     0.0149     0.0202     0.0427       5/1/2017     0.0149     0.0202     0.0427       5/1/2017     0.0074 (J)     0.0184     0.0517       6/29/2017     0.0154     0.0395     0.0451       7/10/2017     0.0328     0.0427     0.0451       10/11/2017     0.0328     0.0202     0.0427       11/20/2017     0.0328     0.0269     0.0394     0.0429
2/27/2017     0.0573       3/6/2017     0.0141       3/7/2017     0.009 (J)     0.0196       3/9/2017     0.0149     0.0083 (J)       5/1/2017     0.0149     0.0083 (J)       5/2/2017     0.0149     0.00202     0.0427       5/1/2017     0.0074 (J)     0.0184       6/29/2017     0.0154     0.0395       7/11/2017     0.0092 (J)     0.0395       10/11/2017     0.0328     0.0269     0.0394       11/20/2017     0.0328     0.0255
3/6/2017     0.0141       3/7/2017     0.009 (J)     0.0196       3/9/2017     0.0149     0.0083 (J)       5/1/2017     0.0149     0.0022     0.0427       5/1/2017     0.0196     0.0517       5/1/2017     0.0074 (J)     0.0184     0.0517       6/29/2017     0.0154     0.0395     0.0451       7/10/2017     0.0092 (J)     0.0328     0.0429       10/11/2017     0.0092 (J)     0.0154     0.0395       11/20/2017     0.0328     0.0429     0.0429       11/20/2017     0.0081 (J)     0.0671     0.0255
37/2017     0.009 (J)     0.0196       3/9/2017     0.0149     0.0083 (J)       5/1/2017     0.0149     0.0022     0.0427       5/1/2017     0.0074 (J)     0.0184     0.0517       6/27/2017     0.0154     0.0074 (J)     0.0184       7/10/2017     0.0154     0.0395     0.0451       10/11/2017     0.0092 (J)     0.0328     0.0429       10/12/2017     0.0328     0.0671     0.0269     0.0394       11/20/2017     0.0081 (J)     0.0671     0.0255     0.0255
3/9/2017     0.0149     0.0083 (J)       5/1/2017     0.0149     0.0022     0.0427       5/1/2017     0.0202     0.0427     0.0517       6/29/2017     0.0074 (J)     0.0184     0.0517       6/29/2017     0.0154     0.0395
5/1/2017     0.0149     0.0083 (J)       5/2/2017     0.0202     0.0427       5/10/2017     0.0074 (J)     0.0184       6/29/2017     0.0154
5/2/2017     0.0202     0.0427       5/10/2017     0.0517       6/2/2017     0.0074 (J)     0.0184       6/29/2017     0.0154       7/10/2017     0.0154       7/11/2017     0.0092 (J)       10/11/2017     0.0328       10/12/2017     0.0381 (J)       0.0081 (J)     0.0671
5/10/2017     0.0517       6/27/2017     0.0154       6/29/2017     0.0154       7/10/2017     0.0154       7/11/2017     0.0092 (J)       10/11/2017     0.0328       10/12/2017     0.0381 (J)       0.0081 (J)     0.0671
6/27/2017     0.074 (J)     0.0184       6/29/2017     0.0154     0.0395       7/10/2017     0.0092 (J)     0.0451       10/11/2017     0.0328     0.0269     0.0394     0.0429       11/20/2017     0.0081 (J)     0.0671     0.0255
6/29/2017     0.0154       7/10/2017     0.0395       7/11/2017     0.0092 (J)       10/12/2017     0.0328       11/20/2017     0.0381 (J)       0.0671     0.0255
7/10/2017   0.0395     7/11/2017   0.0092 (J)     10/11/2017   0.0092 (J)     10/12/2017   0.031 (J)     11/20/2017   0.0081 (J)     0.0671   0.0255
7/11/2017   0.0092 (J)     10/11/2017   0.0328     10/12/2017   0.0381 (J)     0.0671   0.0255
10/11/2017     0.0092 (J)       10/12/2017     0.0328       11/20/2017     0.0081 (J)       0.0671     0.0255
10/12/2017   0.0328   0.0269   0.0394   0.0429     11/20/2017   0.0081 (J)   0.0671   0.0255
11/20/2017 0.0081 (J) 0.0671 0.0255
11/21/2017 0.032
1/10/2018 0.0656
1/11/2018 0.0077 (J) 0.03
1/12/2018 0.0236
2/19/2018 0.0598 0.0308
2/20/2018 <0.01 0.0255
3/29/2018 0.014 <0.01 0.021
3/30/2018 0.03
4/3/2018 <0.01 0.045 0.023 0.03
4/4/2018 0.041
6/6/2018 0.008 (J)
6/7/2018 0.014 0.019
6/12/2018 0.024
6/27/2018
6/28/2018 0.0078 / I) 0.047
o///2016 0.0076 (J) 0.046 0.027
9/24/2018 0.0071 (J) 0.042 0.0075 (I) 0.010
9/26/2018 0.02 0.0075 (J) 0.019
9/2//2018 0.022
3/4/2019 0.016 0.00// (J) 0.019
3/6/2019 0 010
0.013
4/3/2019 0.017 0.0087 (J) 0.023

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
8/21/2019	0.015	0.035							
8/22/2019							0.019	0.021	0.031
9/24/2019				0.0075 (J)	0.019				
9/25/2019			0.015						
9/27/2019						0.018			
10/9/2019	0.013	0.036					0.019	0.021	0.027
2/12/2020	0.011	0.035	0.012	0.0079 (J)	0.021				
3/24/2020		0.033		0.0076 (J)	0.021				
3/25/2020	0.014		0.016				0.018	0.021	0.03
3/26/2020						0.027			
9/22/2020			0.013	0.0076 (J)	0.019				
9/24/2020	0.016	0.028				0.035			0.026
9/25/2020							0.015	0.016	
2/8/2021				0.0079 (J)	0.02				
2/9/2021			0.013			0.042	0.016		
2/10/2021	0.027	0.032						0.017	0.031
3/2/2021				0.014	0.019				
3/3/2021			0.014						
3/4/2021	0.028	0.032				0.043	0.016	0.017	0.03

Constituent: Barium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (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				0.030					
2/4/2015				0.039					
8/3/2015				0.031					
2/16/2016				0.045		0.000	0.010		
6/1/2016						0.008	0.012		
6/2/2016					0.0081				0.0064
7/25/2016							0.0091 (J)		0.0071 (J)
7/26/2016					0.0082 (J)	0.006 (J)			
8/30/2016			0.0413						
8/31/2016	0.0065 (J)			0.0542					
9/1/2016		0.077							
9/13/2016						0.0084 (J)	0.008 (J)		
9/14/2016								0.0037 (J)	
9/15/2016					0.0087 (J)				
9/19/2016									0.0069 (J)
11/1/2016						0.0062 (J)			0.007 (J)
11/2/2016					0.0082 (J)				
11/4/2016							0.0067 (J)	0.0059 (J)	
11/14/2016			0.0383						
11/15/2016		0.0772							
11/16/2016	0.0092 (J)								
11/28/2016				0.0529					
12/15/2016								0.0056 (J)	
1/10/2017					0.0086 (J)				
1/11/2017						0.0069 (J)			
1/16/2017							0.0096 (J)	0.0049 (J)	0.0071 (J)
2/21/2017									0.0077 (J)
2/22/2017				0.0607					
2/24/2017	0 0144		0.0351	0.0007					
2/27/2017	0.0111	0 0888	0.0001						
3/2/2017		0.0000				0.0071 ( I)	0.0112		
3/2/2017						0.0071 (3)	0.0112	0.0046 ( 1)	
3/3/2017					0.0088 ( !)			0.0040 (0)	
3/0/2017					0.0085 (J)				0.0074 ( 1)
4/20/2017					0.0003 (J)	0.0064 (1)	0.0106		0.0074 (J)
4/2//2017						0.0064 (J)	0.0100	0.0000 (1)	
4/28/2017			0.0051	0.005				0.0038 (1)	
5/8/2017			0.0251	0.065					
	YGWC-43	YGWC-49	YGWA-47 (ba)	GWA-2 (ba)	YGWA-14S (ba)	YGWA-1D (ba)	YGWA-11 (ba)	YGWA-21 (ba)	YGWA-301 (ba)
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5/9/2017		0.0792	(3g)	G11112 (5g)	10111110(09)	1 GITT 12 (5g)	1017711(59)	1011/121(09)	· (
5/10/2017	0 0173	0.0702							
5/26/2017	0.0170							0 0034 (J)	
6/27/2017						0.0054 (1)	0 0092 (1)	0.0004 (0)	
6/28/2017						0.0004 (0)	0.0002 (0)	0.003(1)	
6/30/2017					0.0081 (J)			0.000 (0)	0.0076 (.1)
7/11/2017	0.0183		0 0233		0.0001 (0)				0.0070(0)
7/13/2017	0.0105	0.0839	0.0200						
7/13/2017		0.0000		0.06					
10/10/2017			0.0207	0.00					
10/11/2017		0.078	0.0207						
10/12/2017	0.0205	0.070							
10/16/2017	0.0203			0.0542					
2/10/2018				0.0533					
2/13/2018				0.0355	-0.01		-0.01		-0.01
3/27/2018					-0.01		-0.01	-0.01	-0.01
3/20/2018						<0.01		<0.01	
4/2/2018			0.022			<0.01			
4/2/2018	0.024	0.074	0.022						
4/4/2018 6/5/2018	0.024	0.074				0.0069.(1)			
6/6/2018						0.0003 (3)	0.0082 (1)		
6/7/2018							0.0002 (3)	0.0037(1)	
6/8/2018					0.007.(1)			0.0037 (3)	
6/11/2018					0.007 (3)				0.007 (1)
8/6/2018				0.044					0.007 (0)
9/19/2018			0.023	0.044					
9/20/2018	0.035	0.074	0.025						
10/1/2018	0.000	0.074			0.007 (1)	0.0062 (1)	0.0084 (1)	0.0038 (1)	
10/2/2018					0.007 (0)	0.0002 (0)	0.0004 (0)	0.0000 (0)	0 0069 ( 1)
2/25/2019				0.045					0.0000 (0)
2/26/2019				0.010	0.0067 (J)				0.007 (J)
2/27/2019					0.0007 (0)	0 0074 (.1)	0.008 (J)	0.0035 (J)	0.007 (0)
3/28/2019						0.0082 (J)	0.0082 (J)	0.0000 (0)	
3/29/2019					0.0066 (.1)	0.0002 (0)	0.0002 (0)	0.0039 (.1)	
4/1/2019					0.0000 (0)			0.0000 (0)	0.0072 (J)
6/12/2019				0.063					
8/19/2019				0.065					
8/20/2019			0.024	0.000					
8/21/2019	0.03								
9/24/2019						0.0072 (J)	0.0086 (J)	0.0038 (J)	
9/25/2019					0.0071 (J)	(1)			0.0066 (J)
9/26/2019		0.065							( )
10/8/2019			0.025	0.058					
10/9/2019	0.04								
2/10/2020						0.0066 (J)	0.0091 (J)		
2/11/2020								0.0036 (J)	
2/12/2020					0.007 (J)				0.0073 (J)
3/17/2020			0.035	0.047	. /				
3/18/2020					0.0076 (J)		0.0084 (J)		
3/19/2020					. ,	0.0076 (J)	• •	0.0036 (J)	0.0074 (J)
3/25/2020	0.033	0.071							
8/26/2020				0.044					

0/07/0000	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
8/2//2020			0.027						
9/22/2020			0.026	0.045					
9/23/2020						0.0068 (J)	0.0079 (J)	0.0039 (J)	
9/24/2020		0.066							0.0062 (J)
9/25/2020	0.046				0.0073 (J)				
2/9/2021	0.041	0.071							
2/10/2021					0.0078 (J)			0.0032 (J)	
2/11/2021									0.0077 (J)
2/12/2021						0.0057 (J)	0.009 (J)		
3/1/2021			0.029						0.007
3/2/2021				0.039	0.0076				
3/3/2021						0.0068	0.0094	0.0041 (J)	
3/4/2021	0.039	0.069							

Constituent: Barium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		0.0038				
6/2/2016	0.01					
6/8/2016					0.02	
7/25/2016		0.0031 (J)				
7/26/2016	0.0088 (J)					
8/1/2016					0.02	
9/2/2016						0.0409
9/14/2016		0.0027 (J)				
9/15/2016	0.009 (J)					
9/20/2016					0.0203	
11/1/2016	0.0079 (J)	0.0027 (J)				
11/8/2016					0.0191	
11/14/2016						0.0182
1/11/2017	0.0075 (J)	0.0036 (J)				
1/17/2017					0.0192	
2/28/2017						0.023
3/1/2017		0.0036 (J)				
3/2/2017	0.009 (J)					
3/8/2017					0.0189	
4/26/2017	0.0078 (J)	0.0038 (J)				
5/2/2017					0.019	
5/9/2017						0.0349
6/28/2017	0 0071 (.1)	0 004 (.1)				
7/7/2017	0.0071(0)	0.001(0)			0.019	
7/13/2017					0.010	0.0484
9/22/2017						0.0491
9/29/2017						0.0452
10/6/2017						
10/12/2017				0.064		0.0500
11/21/2017				0.004		
1//21/2017				0.0579		
1/11/2018				0.0549		
2/20/2018	-0.01	10.01		0.0593		
3/28/2018	<0.01	<0.01				0.040
3/30/2018				0.054	0.02	0.043
4/3/2018				0.051		
6/7/2018	0.0068 (J)					
6/8/2018		0.0034 (J)				
6/12/2018					0.018	
6/13/2018						0.046
6/29/2018				0.054		
8/6/2018				0.048		
9/24/2018				0.047		
9/26/2018					0.019	0.048
10/1/2018	0.0065 (J)	0.0034 (J)				
10/16/2018			0.063			
2/27/2019	0.0059 (J)	0.0034 (J)				
3/5/2019					0.019	
3/6/2019						0.041
4/1/2019	0.0064 (J)	0.003 (J)				
4/4/2019					0.02	0.042
9/25/2019	0.0059 (J)	0.005 (J)				
9/26/2019			0.039		0.017	0.025

Constituent: Barium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
2/11/2020		0.0031 (J)				
2/12/2020	0.0062 (J)					
3/19/2020	0.0072 (J)	0.0029 (J)				
3/25/2020			0.039			0.025
3/26/2020					0.019	
9/23/2020	0.0051 (J)	0.0039 (J)			0.026	
9/24/2020			0.034			
9/25/2020				0.034		
10/7/2020						0.04
2/9/2021				0.036	0.031	
2/10/2021	0.0059 (J)	0.0029 (J)	0.032			0.035
3/3/2021	0.0064	0.0031 (J)			0.025	
3/4/2021			0.033	0.036		0.028

Constituent: Beryllium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (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
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
1/11/2017					<0.0005	<0.0005	<0.0005		
1/13/2017								<0.0005	<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				
6/28/2017						<0.0005	<0.0005		
6/29/2017					<0.0005			<0.0005	<0.0005
3/28/2018					<0.0005	<0.0005	<0.0005		
3/29/2018								<0.0005	<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)		
9/25/2018					8.9E-05 (J)	<0.0005	8.2E-05 (J)	6.1E-05 (J)	<0.0005
10/16/2018	<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)	
9/24/2019									<0.0005
9/25/2019					8.1E-05 (J)			<0.0005	
9/26/2019	<0.0005					<0.0005	8.4E-05 (J)		
1/15/2020				0.00017 (J)					
2/11/2020					7 8E-05 (J)	<0.0005	7 6E-05 (J)		
2/12/2020								7.8E-05 (J)	<0.0005
3/24/2020					8E-05 (J)	<0.0005	8 9E-05 (J)	7.6E-05 (J)	<0.0005
3/25/2020	0.00037(1)				02 00 (0)	0.0000	0.02 00 (0)	7.02 00 (0)	0.0000
9/23/2020	0.00007 (0)	<0.0005	<0.0005		8 1E-05 (J)	<0.0005	8 8E-05 (J)		
9/24/2020	5 8E-05 (J)	0.0000	0.0000	8 6E-05 (J)		0.0000		8 3E-05 (J)	<0.0005
2/9/2021	<0.0005	5 1E-05 ( I)	<0.0005			<0.0005	9 8E-05 ( I)	6 8E-05 (J)	<0.0005
2/3/2021	<0.0003	<0.0005	<0.0005	0.00013 (3)		<0.0005		6 8E 05 (J)	-0.0003
3/3/2021	~0.0003	~0.0003	~0.0005	0.00012 ( 1)	9.9⊑-00 (J)	~0.0005	0.00011 (J)	0.0E-00 (J)	<0.0005
J/4/2U2 I				0.00013 (J)					~0.0005

Constituent: Beryllium (mg/L) Analysis Run 5/6/2021 8:36 PM

6/2/2016	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.0005	<0.0005	<0.0005	<0.000F			
7/2010			<0.000F	<0.000F	<0.000F	<0.0005			
7/20/2010			<0.0005	<0.0005	<0.0005	-0.0005			
7/28/2016						<0.0005			05.05 (1)
8/30/2016			0.0005	.0.0005					9E-05 (J)
9/14/2016			<0.0005	<0.0005	<0.0005				
9/20/2016						0.0001 (J)			
11/2/2016			<0.0005	<0.0005					
11/4/2016					<0.0005				
11/8/2016						<0.0005			
11/16/2016									<0.0005
1/12/2017				<0.0005	<0.0005				
1/13/2017			<0.0005						
1/16/2017						0.0001 (J)			
2/27/2017									<0.0005
3/6/2017			<0.0005						
3/7/2017				<0.0005	<0.0005				
3/9/2017						0.0001 (J)			
5/1/2017			<0.0005	<0.0005					
5/2/2017					<0.0005	9E-05 (J)			
5/10/2017									9E-05 (J)
6/27/2017				<0.0005	<0.0005				
6/29/2017			<0.0005						
7/10/2017						<0.0005			
7/11/2017									0.0001 (J)
10/11/2017	<0.0005								
10/12/2017		0.0002 (J)					0.0057	0.0036	<0.0005
11/20/2017	<0.0005	0.0003 (J)					0.0053		
11/21/2017								0.0036	
1/10/2018		0.0003 (J)							
1/11/2018	<0.0005							0.0037	
1/12/2018							0.0053		
2/19/2018		<0.0005						0.0039	
2/20/2018	<0.0005						0.0053		
3/29/2018			<0.0005	<0.0005	<0.0005				
3/30/2018						<0.0005			
4/3/2018	<0.0005	<0.0005					0.0056	0.0037	
4/4/2018									<0.0005
6/6/2018				<0.0005					
6/7/2018			<0.0005		<0.0005				
6/12/2018						8.1E-05 (J)			
6/27/2018								0.0038	
6/28/2018	<0.0005	0.00029 (J)					0.0059		
8/7/2018	<0.0005	0.00024 (J)					0.0058	0.0037	
9/20/2018									<0.0005
9/24/2018	<0.0005	0.00019 (J)					0.0051	0.0032	
9/26/2018			<0.0005	<0.0005	<0.0005				
9/27/2018			0.0000	0.0000	0.0000	9E-05 (J)			
3/4/2019			<0.0005	<0.0005	<0.0005	32 00 (0)			
3/6/2019			-0.0000	-0.0000	-0.0000	6 6E-05 ( I)			
4/3/2010			<0.0005	<0.0005	<0.0005	0.02-00 (0)			
1/1/2010			-0.0000	-0.0000	-0.0000	7 25-05 (1)			
41412013						7.∠∟-00 (J)			

#### Constituent: Beryllium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
8/21/2019	<0.0005	0.0002 (J)							
8/22/2019							0.0049	0.0026 (J)	<0.0005
9/24/2019				<0.0005	<0.0005				
9/25/2019			<0.0005						
9/27/2019						7.7E-05 (J)			
10/9/2019	<0.0005	0.0002 (J)					0.0046	0.0026 (J)	<0.0005
2/12/2020	<0.0005	0.00018 (J)	<0.0005	<0.0005	<0.0005				
3/24/2020		0.00022 (J)		<0.0005	<0.0005				
3/25/2020	<0.0005		<0.0005				0.0038	0.0026 (J)	<0.0005
3/26/2020						9E-05 (J)			
9/22/2020			<0.0005	<0.0005	<0.0005				
9/24/2020	<0.0005	0.0002 (J)				0.00015 (J)			6.7E-05 (J)
9/25/2020							0.0033	0.002 (J)	
2/8/2021				<0.0005	<0.0005				
2/9/2021			<0.0005			0.00015 (J)	0.0029 (J)		
2/10/2021	5.1E-05 (J)	0.00021 (J)						0.0015 (J)	5.7E-05 (J)
3/2/2021				<0.0005	<0.0005				
3/3/2021			<0.0005						
3/4/2021	<0.0005	0.00021 (J)				0.00013 (J)	0.0029	0.0015	<0.0005

Constituent: Beryllium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (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					
2/4/2015				<0.0005					
8/3/2015				<0.0005					
2/16/2016				<0.0005		-0.0005	-0.0005		
6/1/2016					0.0005	<0.0005	<0.0005		
6/2/2016					<0.0005				<0.0005
//25/2016							<0.0005		<0.0005
7/26/2016					0.0002 (J)	<0.0005			
8/30/2016			<0.0005						
8/31/2016	<0.0005			<0.0005					
9/1/2016		0.0001 (J)							
9/13/2016						<0.0005	<0.0005		
9/14/2016								<0.0005	
9/15/2016					0.0002 (J)				
9/19/2016									<0.0005
11/1/2016						<0.0005			<0.0005
11/2/2016					0.0002 (J)				
11/4/2016							<0.0005	<0.0005	
11/14/2016			<0.0005						
11/15/2016		0.0001 (J)							
11/16/2016	<0.0005								
11/28/2016				<0.0005					
12/15/2016								<0.0005	
1/10/2017					0.0002 (J)				
1/11/2017						<0.0005			
1/16/2017							<0.0005	<0.0005	<0.0005
2/21/2017									<0.0005
2/22/2017				<0.0005					
2/24/2017	<0.0005		<0.0005						
2/27/2017		0.0001 (J)							
3/2/2017						<0.0005	<0.0005		
3/3/2017								<0.0005	
3/8/2017					0.0002 (J)				
4/26/2017					0.0002 (J)				<0.0005
4/27/2017						<0.0005	<0.0005		
4/28/2017								<0.0005	
5/8/2017			7E-05 (J)	<0.0005					

#### Constituent: Beryllium (mg/L) Analysis Run 5/6/2021 8:36 PM

	XGWC 43	XGWC 49	XGW(A 47 (ba)	GW(A 2 (bg)	VGW(A 148 (ba)				
5/0/2017	1600-45	0.0001 (1)	1GWA-47 (bg)	GWA-2 (bg)	1 GWA-143 (bg)	IGWA-ID (bg)	TGWA-TI (bg)	1GWA-21 (bg)	TGWA-SUI (bg)
5/9/2017	<0.0005	0.0001 (3)							
5/26/2017	<0.0003							<0.0005	
5/20/2017						<0.000E	<0.000E	<0.0003	
6/27/2017						<0.0005	<0.0005	<0.000F	
6/28/2017					0.0002 ( 1)			<0.0005	<0.000F
0/30/2017	-0.0005		-0.0005		0.0002 (J)				<0.0005
7/11/2017	<0.0005	0.0001 (1)	<0.0005						
7/13/2017		0.0001 (J)		0.0005					
//1//2017				<0.0005					
10/10/2017		0.0001 (1)	<0.0005						
10/11/2017		0.0001 (J)							
10/12/2017	0.0001 (J)			0.0005					
10/16/2017				<0.0005					
2/19/2018				<0.0005					
3/27/2018					<0.0005		<0.0005		<0.0005
3/28/2018						.0.0005		<0.0005	
3/29/2018						<0.0005			
4/2/2018			<0.0005						
4/4/2018	<0.0005	<0.0005							
8/6/2018				<0.0005					
9/19/2018			5.7E-05 (J)						
9/20/2018	0.00029 (J)	0.00011 (J)							
2/25/2019				<0.0005					
2/26/2019					0.00016 (J)				7.2E-05 (J)
2/27/2019						<0.0005	<0.0005	<0.0005	
3/28/2019						<0.0005	<0.0005		
3/29/2019					0.00017(J)			<0.0005	
4/1/2019									<0.0005
6/12/2019				<0.0005					
8/19/2019				<0.0005					
8/20/2019	( N		<0.0005						
8/21/2019	0.0003 (J)								
9/24/2019						<0.0005	<0.0005	<0.0005	
9/25/2019					0.00018 (J)				<0.0005
9/26/2019		0.00013 (J)							
10/8/2019				<0.0005					
10/9/2019	0.00034 (J)					.0.0005			
2/10/2020						<0.0005	<0.0005	0.0005	
2/11/2020					0.00010 ( ))			<0.0005	
2/12/2020					0.00019 (J)				<0.0005
3/1//2020				<0.0005	0.00001 ( ))		0.0005		
3/18/2020					0.00021 (J)		<0.0005		
3/19/2020						<0.0005		<0.0005	<0.0005
3/25/2020	0.00034 (J)	0.00013 (J)							
8/26/2020			/	<0.0005					
8/27/2020			4.7E-05 (J)						
9/22/2020			<0.0005	<0.0005					
9/23/2020		0.000101				<0.0005	<0.0005	<0.0005	
9/24/2020		0.00013 (J)							<0.0005
9/25/2020	0.00054 (J)	0.000101			0.00018 (J)				
2/9/2021	0.00053 (J)	0.00013 (J)			0.00046.(**			0.0005	
2/10/2021					0.00019 (J)			<0.0005	

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
2/11/2021									4.7E-05 (J)
2/12/2021						<0.0005	<0.0005		
3/1/2021			5.5E-05 (J)						<0.0005
3/2/2021				<0.0005	0.00018 (J)				
3/3/2021						<0.0005	<0.0005	<0.0005	
3/4/2021	0.00056	0.0001 (J)							

Constituent: Beryllium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		<0.0005				
6/2/2016	<0.0005					
6/8/2016					<0.0005	
7/25/2016		<0.0005				
7/26/2016	<0.0005					
8/1/2016					0.0001 (J)	
9/2/2016						0.0003 (J)
9/14/2016		<0.0005				
9/15/2016	<0.0005					
9/20/2016					0.0001 (J)	
11/1/2016	<0.0005	<0.0005				
11/8/2016					<0.0005	
11/14/2016						9E-05 (J)
1/11/2017	<0.0005	<0.0005				
1/17/2017					0.0001 (J)	
2/28/2017						0.0001 (J)
3/1/2017		<0.0005				
3/2/2017	<0.0005					
3/8/2017					0.0001 (J)	
4/26/2017	<0.0005	<0.0005				
5/2/2017					0.0001 (J)	
5/9/2017						0.0002 (J)
6/28/2017	<0.0005	<0.0005				
7/7/2017					0.0001 (J)	
7/13/2017						0.0003 (J)
9/22/2017						0.0003 (J)
9/29/2017						0.0003 (J)
10/6/2017						0.0003 (J)
10/12/2017				0.0004 (J)		
11/21/2017				0.0004 (J)		
1/11/2018				0.0003 (J)		
2/20/2018				<0.0005		
3/28/2018	<0.0005	<0.0005				
3/30/2018					<0.0005	<0.0005
4/3/2018				<0.0005		
6/12/2018					0.00012 (J)	
6/13/2018						0.00035 (J)
6/29/2018				0.00033 (J)		
8/6/2018				0.0002 (J)		
8/30/2018			0.00052 (J)			
9/24/2018				0.00029 (J)		
9/26/2018					0.00014 (J)	0.00032 (J)
10/16/2018			0.00036 (J)			
2/27/2019	<0.0005	<0.0005				
3/5/2019					0.00016 (J)	
3/6/2019						0.00029 (J)
4/1/2019	<0.0005	<0.0005				
4/4/2019					0.00015 (J)	0.00033 (J)
9/25/2019	<0.0005	<0.0005				
9/26/2019			<0.0005		0.00014 (J)	0.00029 (J)
2/11/2020		<0.0005				
2/12/2020	<0.0005					

Constituent: Beryllium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
3/19/2020	<0.0005	<0.0005				
3/25/2020			<0.0005			0.00022 (J)
3/26/2020					0.00016 (J)	
9/23/2020	<0.0005	5.9E-05 (J)			6.1E-05 (J)	
9/24/2020			0.00033 (J)			
9/25/2020				0.00031 (J)		
10/7/2020						0.00014 (J)
2/9/2021				0.00029 (J)	0.00013 (J)	
2/10/2021	<0.0005	<0.0005	0.00025 (J)			9.9E-05 (J)
3/3/2021	<0.0005	<0.0005			9.9E-05 (J)	
3/4/2021			0.00025 (J)	0.00017 (J)		0.00016 (J)

Constituent: Boron (mg/L) Analysis Run 5/6/2021 8:36 PM

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (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
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
1/11/2017					0.0092 (J)	<0.04	0.0096 (J)		
1/13/2017								<0.04	<0.04
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				
6/28/2017						<0.04	0.0079 (J)		
6/29/2017					0.0074 (J)			<0.04	<0.04
10/3/2017									<0.04
10/4/2017					0.0077 (J)		0.009 (J)	<0.04	
10/5/2017						<0.04			
6/5/2018									0.0092 (J)
6/6/2018								0.0049 (J)	
6/7/2018						<0.04			
6/11/2018					0.01 (J)		0.0093 (J)		
9/25/2018					0.0096 (J)	0.0046 (J)	0.007 (J)	<0.04	0.0054 (J)
10/16/2018	0.2								
4/2/2019					0.0066 (J)				0.011 (J)
4/3/2019						<0.04	0.0053 (J)	<0.04	
9/24/2019									0.018 (J)
9/25/2019					0.0081 (J)			<0.04	
9/26/2019	0.092					0.0062 (J)	0.0072 (J)		
1/15/2020		0.031 (J)		8.7					
1/16/2020			1.9						
2/11/2020				78					
3/24/2020					0.0092 (J)	0.0054 (J)	0.01 (J)	<0.04	0.016 (J)
3/25/2020	0.018 (.1)								
9/23/2020		0.026 (.1)	25		0 0066 (.1)	0 021 (.1)	0.006 (.1)		
9/24/2020	0 076 (J)	0.020 (0)	2.0	87	0.0000 (0)	0.021(0)	0.000 (0)	0 0094 (.1)	0.013 (J)
3/3/2021	0.039(1)	0.032 (.1)	0.81		0.01.(.1)	<0.04	0 0094 (1)	<0.04	
3/4/2021	0.000 (0)	0.002 (0)	0.01	6.1	0.01 (0)	-0.04	0.0004 (0)	-0.04	0.0079 ( 1)
3/4/2UZ I				0.1					0.0019 (1)

Constituent: Boron (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.04	<0.04	<0.04				
6/7/2016						0.99			
7/26/2016			0.0047 (J)	0.0052 (J)	<0.04				
7/28/2016						1.09			
8/30/2016									24.7
9/14/2016			<0.04	0.0071 (J)	0.01 (J)				
9/20/2016						1.35			
11/2/2016			<0.04	<0.04					
11/4/2016					<0.04				
11/8/2016						1.5			
11/16/2016									16.4
1/12/2017				0.0076 (J)	<0.04				
1/13/2017			<0.04						
1/16/2017						1.67			
2/27/2017									17.9
3/6/2017			<0.04						
3/7/2017				0.0089 (J)	<0.04				
3/9/2017						1.44			
5/1/2017			<0.04	0.0061 (J)					
5/2/2017					<0.04	1.2			
5/10/2017									20.4
6/27/2017				0.0079 (J)	<0.04				
6/29/2017			<0.04						
7/10/2017						1.12			
7/11/2017									25.2
10/3/2017				0.0094 (J)	<0.04				
10/5/2017			<0.04						
10/11/2017	0.0135 (J)					1.09			
10/12/2017		0.0401					19.3	12	20
11/20/2017	0.0251 (J)	0.156					21.8		
11/21/2017								12.1	
1/10/2018		0.15							
1/11/2018	0.0255 (J)							12.8	
1/12/2018							18.7		
2/19/2018		0.146						15.2	
2/20/2018	<0.04						18.6		
4/3/2018	0.033 (J)	0.12					20.9	14.5	
4/4/2018									22.7
6/6/2018				0.0098 (J)					
6/7/2018			0.0045 (J)		<0.04				
6/12/2018						0.9			
6/27/2018								14.1	
6/28/2018	0.053	0.16					22.7		
8/7/2018	0.024 (J)	0.12					19.1	11.9	
9/20/2018									20.3
9/24/2018	0.028 (J)	0.099					18.4	12.2	
9/26/2018			0.005 (J)	0.01 (J)	0.0057 (J)				
9/27/2018			·			0.71			
3/26/2019		0.096							
3/27/2019	0.017 (J)						16.7		20.3
3/28/2019								7.1	
4/3/2019			0.0055 (J)	0.0076 (J)	0.0044 (J)				

Constituent: Boron (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/4/2019						0.6			
9/24/2019				0.01 (J)	0.0049 (J)				
9/25/2019			<0.04						
9/27/2019						0.58			
10/9/2019	0.017 (J)	0.079					13.5	8.6	16.6
3/24/2020		0.088 (J)		0.011 (J)	0.0068 (J)				
3/25/2020	0.043 (J)		0.011 (J)				9.3	7.9	15.5
3/26/2020						0.94			
9/22/2020			<0.04	0.0079 (J)	0.0053 (J)				
9/24/2020	0.037 (J)	0.087 (J)				1.1			15.2
9/25/2020							8	6	
3/2/2021				0.0068 (J)	0.011 (J)				
3/3/2021			0.0056 (J)						
3/4/2021	0.033 (J)	0.078				1.2	6.4	4	14.8

Constituent: Boron (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016						<0.04	<0.04		
6/2/2016					<0.04				<0.04
7/25/2016							<0.04		<0.04
7/26/2016					0.0177 (J)	0.0055 (J)			
8/30/2016			0.0166 (J)						
8/31/2016	0.169			0.0315 (J)					
9/1/2016		0.0113 (J)							
9/13/2016						<0.04	<0.04		
9/14/2016								<0.04	
9/15/2016					0.0214 (J)				
9/19/2016									<0.04
11/1/2016						0.0086 (.1)			<0.04
11/2/2016					<0.04	0.0000 (0)			0.01
11/4/2016					0.01		<0.04	<0.04	
11/14/2016			0.0166 ( 1)				-0.0-1	-0.0-1	
11/15/2016		0.0074 (1)	0.0100 (3)						
11/15/2016	0.406	0.0074 (J)							
11/10/2010	0.406			0.0005 ( 1)					
11/28/2016				0.0095 (J)					
12/15/2016								0.0107 (J)	
1/10/2017					0.0198 (J)				
1/11/2017						0.0074 (J)			
1/16/2017							<0.04	<0.04	<0.04
2/21/2017									<0.04
2/22/2017				<0.04					
2/24/2017	0.725		0.0145 (J)						
2/27/2017		<0.04							
3/2/2017						0.008 (J)	<0.04		
3/3/2017								<0.04	
3/8/2017					0.0189 (J)				
4/26/2017					0.0161 (J)				<0.04
4/27/2017						0.0066 (J)	<0.04		
4/28/2017								<0.04	
5/8/2017			0.0141 (J)	0.0084 (J)					
5/9/2017		<0.04							
5/10/2017	0.955								
5/26/2017								<0.04	
6/27/2017						0 0087 (.1)	0.006 (.1)		
6/28/2017						0.0007 (0)	0.000 (0)	<0.04	
6/30/2017					0.0173 ( I)			0.01	<0.04
7/11/2017	0.994		0.0131 ( 1)		0.0170 (0)				-0.04
7/11/2017	0.334	0.0003 ( 1)	0.0131 (3)						
7/13/2017		0.0093 (J)		0.0002 ( 1)					
10/2/2017				0.0092 (J)		0.0070 (1)	0.0071 (1)	-0.04	
10/3/2017						0.007∠ (J)	0.0071 (J)	<b>~</b> 0.04	-0.04
10/4/2017					0.0170 ( ))				<0.04
10/5/2017			0.0464.05		0.0173 (J)				
10/10/2017			0.0124 (J)						
10/11/2017		<0.04							
10/12/2017	1.15								
10/16/2017				<0.04					
2/19/2018				<0.04					
4/2/2018			0.013 (J)						
4/4/2018	1.2	0.0041 (J)							

#### Constituent: Boron (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/5/2018						0.0052 (J)			
6/6/2018							<0.04		
6/7/2018								<0.04	
6/8/2018					0.013 (J)				
6/11/2018									0.014 (J)
8/6/2018				<0.04					
9/19/2018			0.012 (J)						
9/20/2018	2.1	0.0042 (J)							
10/1/2018					0.015 (J)	0.021 (J)	0.0049 (J)	<0.04	
10/2/2018									<0.04
2/25/2019				<0.04					
3/27/2019			0.013 (J)						
3/28/2019	1.8	<0.04				0.005 (J)	<0.04		
3/29/2019					0.014 (J)			0.0065 (J)	
4/1/2019									<0.04
6/12/2019				<0.04					
9/24/2019						0.0064 (J)	0.0055 (J)	0.0076 (J)	
9/25/2019					0.018 (J)				<0.04
9/26/2019		<0.04							
10/8/2019			0.012 (J)	<0.04					
10/9/2019	2.7								
3/17/2020			0.023 (J)	0.0051 (J)					
3/18/2020					0.02 (J)		0.0087 (J)		
3/19/2020						0.0085 (J)		0.0073 (J)	0.0052 (J)
3/25/2020	2.4	0.012 (J)							
9/22/2020			0.0076 (J)	0.0079 (J)					
9/23/2020						<0.04	<0.04	<0.04	
9/24/2020		0.062 (J)							0.0075 (J)
9/25/2020	3.9				0.02 (J)				
3/1/2021			0.013 (J)						<0.04
3/2/2021			. ,	<0.04	0.017 (J)				
3/3/2021						<0.04	<0.04	<0.04	
3/4/2021	3.6	<0.04							

#### Constituent: Boron (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		<0.04				
6/2/2016	<0.04					
6/8/2016					<0.04	
7/25/2016		<0.04				
7/26/2016	0.0097 (J)					
8/1/2016					<0.04	
9/2/2016						0.133
9/14/2016		<0.04				
9/15/2016	0.0102 (J)					
9/20/2016					<0.04	
11/1/2016	<0.04	<0.04				
11/8/2016					<0.04	
11/14/2016						0.287
1/11/2017	<0.04	<0.04				
1/17/2017					<0.04	
2/28/2017						0.215
3/1/2017		<0.04				
3/2/2017	0.0084 (J)					
3/8/2017					<0.04	
4/26/2017	<0.04	<0.04				
5/2/2017					0.0099 (J)	
5/9/2017						0.233
6/28/2017	<0.04	<0.04				
7/7/2017					0.0076 (J)	
7/13/2017						0.262
9/22/2017						0.238
9/29/2017						0.235
10/4/2017	<0.04	<0.04				
10/5/2017					<0.04	
10/6/2017						0.256
10/11/2017						0.245
10/12/2017				15.4		
11/21/2017				17.2		
1/11/2018				15.8		
2/20/2018				19.5		
4/3/2018				17.5		
6/7/2018	0.004 (J)					
6/8/2018		<0.04				
6/12/2018					0.018 (J)	
6/13/2018						0.25
6/29/2018				20.6		
8/6/2018				15.9		
8/30/2018			0.04			
9/24/2018				16.5		
9/26/2018					0.0055 (J)	0.24
10/1/2018	<0.04	<0.04				
10/16/2018			0.031 (J)			
4/1/2019	<0.04	<0.04				
4/4/2019	0.0054 ( "				<0.04	U.22
9/25/2019	0.0054 (J)	<0.04	-0.04		0.0000 ( ))	0.10
9/26/2019	0.0072 ( !)	0.0052 ( !)	<0.04		0.0068 (J)	U. 13
3/19/2020	0.0073 (J)	0.0053 (J)				

Constituent: Boron (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
3/25/2020			0.071 (J)			0.11
3/26/2020					0.033 (J)	
9/23/2020	0.012 (J)	0.0073 (J)			<0.04	
9/24/2020			0.017 (J)			
9/25/2020				14.1		
10/7/2020						0.018 (J)
3/3/2021	<0.04	<0.04			<0.04	
3/4/2021			0.012 (J)	12.4		0.0088 (J)

Constituent: Cadmium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (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
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
1/11/2017					0.0001 (J)	<0.0005	0.0001 (J)		
1/13/2017								<0.0005	<0.0005
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				
6/28/2017						<0.0005	<0.0005		
6/29/2017					<0.0005			<0.0005	<0.0005
3/28/2018					<0.0005	<0.0005	<0.0005		
3/29/2018								<0.0005	<0.0005
6/5/2018									<0.0005
6/6/2018								<0.0005	
6/7/2018						<0.0005			
6/11/2018					<0.0005		<0.0005		
9/25/2018					<0.0005	<0.0005	<0.0005	<0.0005	9.6E-05 (J)
10/16/2018	0.00014 (J)								
3/5/2019					<0.0005		<0.0005	<0.0005	<0.0005
3/6/2019						<0.0005			
4/2/2019					<0.0005				<0.0005
4/3/2019					0.0000	<0.0005	<0.0005	<0.0005	0.0000
9/24/2019						0.0000	0.0000	0.0000	<0.0005
9/25/2019					<0.0005			<0.0005	0.0000
9/26/2019	<0.0005				0.0000	<0.0005	<0.0005	0.0000	
2/11/2020	-0.0000				<0.0005	<0.0005	<0.0005		
2/12/2020					-0.0000	-0.0000	-0.0000	<0.0005	
3/24/2020					<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/25/2020	<0.0005				-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
0/23/2020	-0.0000	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005		
512312020 Q124/2020	0.00017 ( 1)	~0.0000	~0.0005	0.00018 ( 1)	~0.0005	~0.0005	~0.0005	<0.0005	<0.000E
3/24/2020	0.00017 (3)	<0.000E	<0.000E	0.00016 (J)		<0.000E	<0.0005	<0.0005	~0.0003
2/3/2021	0.000 IS (J)	<0.0005	<0.0005	0.00025 (J)	<0.000F	<0.0005	<0.0005	<0.0005	0.00041 (J)
3/3/2021	<0.0005	<0.0005	<0.0005	0.00010 ( ))	<0.0005	<0.0005	<0.0005	<0.0005	-0.0005
3/4/2021				0.00018 (J)					<0.0005

Constituent: Cadmium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.0005	<0.0005	<0.0005				
6/7/2016						<0.0005			
7/26/2016			<0.0005	<0.0005	<0.0005				
7/28/2016						<0.0005			
8/30/2016									<0.0005
9/14/2016			<0.0005	<0.0005	<0.0005				
9/20/2016						<0.0005			
11/2/2016			<0.0005	<0.0005					
11/4/2016					<0.0005				
11/8/2016						7E-05 (J)			
11/16/2016									<0.0005
1/12/2017				<0.0005	9E-05 (J)				
1/13/2017			<0.0005	0.0000	02 00 (0)				
1/16/2017			-0.0000			<0.0005			
2/27/2017						40.0000			<0.0005
2/2//2017			<0.000F						<0.0003
3/0/2017			<0.0005	<0.000F	<0.000F				
3/7/2017				<0.0005	<0.0005	0.0005			
3/9/2017						<0.0005			
5/1/2017			<0.0005	<0.0005					
5/2/2017					<0.0005	<0.0005			
5/10/2017									0.0002 (J)
6/27/2017				<0.0005	<0.0005				
6/29/2017			<0.0005						
7/10/2017						<0.0005			
7/11/2017									0.0005 (J)
10/11/2017	<0.0005								
10/12/2017		<0.0005					0.003	0.0002 (J)	0.0006 (J)
11/20/2017	<0.0005	<0.0005					0.0027		
11/21/2017								0.0003 (J)	
1/10/2018		<0.0005							
1/11/2018	<0.0005							0.0002 (J)	
1/12/2018							0.0029	(,)	
2/19/2018		<0.0005					0.0020	<0.0005	
2/20/2018	<0.0005	-0.0000					0.0029	40.0000	
3/20/2018	<0.0003		<0.0005	<0.0005	<0.0005		0.0029		
3/29/2018			<0.0005	<0.0005	<0.0005	<0.000F			
3/30/2018	-0.0005	-0.0005				<0.0005	0.0007	-0.0005	
4/3/2018	<0.0005	<0.0005					0.0027	<0.0005	0.0005
4/4/2018									<0.0005
6/6/2018				<0.0005					
6/7/2018			<0.0005		<0.0005				
6/12/2018						<0.0005			
6/27/2018								0.00025 (J)	
6/28/2018	<0.0005	<0.0005					0.0029		
8/7/2018	<0.0005	<0.0005					0.0027	0.00024 (J)	
9/20/2018									0.0002 (J)
9/24/2018	<0.0005	<0.0005					0.0027	0.00021 (J)	
9/26/2018			<0.0005	<0.0005	<0.0005				
9/27/2018						<0.0005			
3/4/2019			<0.0005	<0.0005	<0.0005				
3/6/2019						<0.0005			
4/3/2019			<0.0005	<0.0005	<0.0005				
4/4/2019						<0.0005			
						0.0000			

Constituent: Cadmium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
8/21/2019	<0.0005	<0.0005							
8/22/2019							0.0023 (J)	0.00015 (J)	0.00017 (J)
9/24/2019				<0.0005	<0.0005				
9/25/2019			<0.0005						
9/27/2019						<0.0005			
10/9/2019	<0.0005	<0.0005					0.0021 (J)	0.00017 (J)	0.00025 (J)
2/12/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005				
3/24/2020		<0.0005		<0.0005	<0.0005				
3/25/2020	<0.0005		<0.0005				0.0018 (J)	0.00018 (J)	0.00021 (J)
3/26/2020						<0.0005			
9/22/2020			<0.0005	<0.0005	<0.0005				
9/24/2020	<0.0005	<0.0005				<0.0005			0.00014 (J)
9/25/2020							0.0015 (J)	0.00014 (J)	
2/8/2021				<0.0005	<0.0005				
2/9/2021			<0.0005			<0.0005	0.0014 (J)		
2/10/2021	0.00019 (J)	<0.0005						<0.0005	<0.0005
3/2/2021				<0.0005	<0.0005				
3/3/2021			<0.0005						
3/4/2021	0.0003 (J)	<0.0005				<0.0005	0.0013	<0.0005	<0.0005

Constituent: Cadmium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (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					
6/1/2016						<0.0005	<0.0005		
6/2/2016					<0.0005				<0.0005
7/25/2016							<0 0005		<0.0005
7/26/2016					<0.0005	<0.0005	0.0000		0.0000
8/30/2016			0.0001 (J)		-0.0000	-0.0000			
8/31/2016	<0.0005		0.0001 (0)	<0.0005					
0/1/2016	<0.0005	<0.000E		<0.0005					
9/1/2010		<0.0005				<0.000E	<0.000E		
9/13/2016						<0.0005	<0.0005	-0.0005	
9/14/2016								<0.0005	
9/15/2016					<0.0005				
9/19/2016									<0.0005
11/1/2016						<0.0005			<0.0005
11/2/2016					<0.0005				
11/4/2016							<0.0005	<0.0005	
11/14/2016			0.0001 (J)						
11/15/2016		<0.0005							
11/16/2016	<0.0005								
11/28/2016				<0.0005					
12/15/2016								<0.0005	
1/10/2017					<0.0005				
1/11/2017						0.0002 (J)			
1/16/2017							<0.0005	<0.0005	<0.0005
2/21/2017									<0.0005
2/22/2017				<0.0005					
2/24/2017	<0.0005		9E-05 (J)						
2/27/2017		7E-05 (J)							
3/2/2017						<0.0005	<0.0005		
3/3/2017								<0.0005	
3/8/2017					7E-05 (J)				
4/26/2017					<0.0005				<0.0005
4/27/2017						<0.0005	<0.0005		
4/28/2017								<0.0005	
5/8/2017			0.0001 (J)	<0.0005					
			. ,						

#### Constituent: Cadmium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
5/9/2017		<0.0005							
5/10/2017	<0.0005								
5/26/2017								<0.0005	
6/27/2017						<0.0005	<0.0005		
6/28/2017								<0.0005	
6/30/2017					<0.0005				<0.0005
7/11/2017	<0.0005		<0.0005						
7/13/2017		<0.0005							
7/17/2017				<0.0005					
10/10/2017			<0.0005						
10/11/2017		<0.0005							
10/12/2017	<0.0005								
10/16/2017				<0.0005					
2/19/2018				<0.0005					
3/27/2018					<0.0005		<0.0005		<0.0005
3/28/2018								<0.0005	
3/29/2018						<0.0005			
4/2/2018			<0.0005						
4/4/2018	<0.0005	<0.0005	0.0000						
8/6/2018	-0.0003	-0.0003		<0.0005					
9/19/2018			<0.0005	-0.0000					
9/19/2018	<0.000E	<0.000E	<0.0005						
9/20/2018	<0.0005	<0.0005		<0.000F					
2/25/2019				<0.0005	<0.000F				<0.000E
2/20/2019					<0.0005	10,0005	-0.0005	-0.0005	<0.0005
2/27/2019						<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
6/12/2019				<0.0005					
8/19/2019				<0.0005					
8/20/2019			<0.0005						
8/21/2019	<0.0005								
9/24/2019						<0.0005	<0.0005	<0.0005	
9/25/2019					<0.0005				<0.0005
9/26/2019		<0.0005							
10/8/2019			<0.0005	<0.0005					
10/9/2019	<0.0005								
2/10/2020						<0.0005	<0.0005		
2/11/2020								<0.0005	
2/12/2020					<0.0005				<0.0005
3/17/2020			<0.0005	<0.0005					
3/18/2020					<0.0005		<0.0005		
3/19/2020						<0.0005		<0.0005	<0.0005
3/25/2020	<0.0005	<0.0005							
8/26/2020				<0.0005					
8/27/2020			<0.0005						
9/22/2020				<0.0005					
9/23/2020						<0.0005	<0.0005	<0.0005	
9/24/2020		<0.0005							<0.0005
9/25/2020	<0.0005				<0.0005				
2/9/2021	<0.0005	<0.0005							
2/10/2021					<0.0005			<0.0005	

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
2/11/2021									<0.0005
2/12/2021						<0.0005	<0.0005		
3/1/2021									<0.0005
3/2/2021				<0.0005	<0.0005				
3/3/2021						<0.0005	<0.0005	<0.0005	
3/4/2021	<0.0005	<0.0005							

Constituent: Cadmium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		<0.0005				
6/2/2016	<0.0005					
6/8/2016					<0.0005	
7/25/2016		<0.0005				
7/26/2016	<0.0005					
8/1/2016					<0.0005	
9/2/2016						<0.0005
9/14/2016		<0.0005				
9/15/2016	<0.0005					
9/20/2016					<0.0005	
11/1/2016	<0.0005	<0.0005				
11/8/2016					<0.0005	
11/14/2016						9E-05 (J)
1/11/2017	0.0001 (J)	8E-05 (J)				
1/17/2017					<0.0005	
2/28/2017						0.0001 (J)
3/1/2017		<0.0005				
3/2/2017	<0.0005					
3/8/2017					<0.0005	
4/26/2017	<0.0005	<0.0005				
5/2/2017					<0.0005	
5/9/2017						0.0002 (J)
6/28/2017	<0.0005	<0.0005				
7/7/2017					<0.0005	
7/13/2017						0.0002 (J)
9/22/2017						0.0002 (J)
9/29/2017						0.0002 (J)
10/6/2017						0.0002 (J)
10/12/2017				0.0002 (J)		
11/21/2017				0.0002 (J)		
1/11/2018				0.0004 (J)		
2/20/2018				<0.0005		
3/28/2018	<0.0005	<0.0005				
3/30/2018					<0.0005	<0.0005
4/3/2018				<0.0005		
6/12/2018					<0.0005	
6/13/2018						0.00019 (J)
6/29/2018				0.00099 (J)		
8/6/2018				0.00063 (J)		
9/24/2018				0.00069 (J)		
9/26/2018					<0.0005	0.00018 (J)
10/16/2018			<0.0005			
2/27/2019	<0.0005	<0.0005				
3/5/2019					<0.0005	
3/6/2019						0.00015 (J)
4/1/2019	<0.0005	<0.0005				
4/4/2019					<0.0005	0.00019 (J)
9/25/2019	<0.0005	<0.0005				
9/26/2019			<0.0005		<0.0005	0.00017 (J)
2/11/2020		<0.0005				
2/12/2020	<0.0005					
3/19/2020	<0.0005	<0.0005				

Constituent: Cadmium (mg/L) Analysis Run 5/6/2021 8:36 PM

3/25/2020	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35 0.00016 (J)	PZ-37	YGWC-24SA	YGWC-36A 0.00019 (J)
3/26/2020					<0.0005	
9/23/2020	<0.0005	<0.0005			<0.0005	
9/24/2020			<0.0005			
9/25/2020				0.00039 (J)		
10/7/2020						0.00012 (J)
2/9/2021				0.00042 (J)	<0.0005	
2/10/2021	<0.0005	<0.0005	<0.0005			<0.0005
3/3/2021	<0.0005	<0.0005			<0.0005	
3/4/2021			<0.0005	0.00028 (J)		<0.0005

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	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (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
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
1/11/2017					2.28	4.74	1.25		
1/13/2017								2.45	4.98
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				
6/28/2017						4.95	1.06		
6/29/2017					2.02			2.54	6.04
10/3/2017									8.28
10/4/2017					2.03		1.1	2.25	
10/5/2017						5.28			
6/5/2018									9.1
6/6/2018								2.3	
6/7/2018						4.8			
6/11/2018					2.1		1.4		
9/25/2018					2.1	4.6	1	2.3	10.4 (J)
10/16/2018	14.5 (J)								
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	9.3					4.9	1.1		
3/24/2020					2.7	5.3	1	2.6	6
3/25/2020	4.5								
9/23/2020		1.7	10.5		2.6	5.2	0.91 (J)		
9/24/2020	4.8			61.3				2.6	7.8
3/3/2021	6.9	1.5	20.6		2.5	5.2	0.96 (J)	2.4	
3/4/2021				53.8					8.7

Constituent: Calcium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			8.8	33	2.4				
6/7/2016						9.6			
7/26/2016			7.69	32.3	2.12				
7/28/2016						7.87			
8/30/2016									133
9/14/2016			8.49	31	2.18				
9/20/2016						9.28			
11/2/2016			7.83	30.9					
11/4/2016					2.17 (J)				
11/8/2016						8.6			
11/16/2016									125
1/12/2017				35.7	2.37				
1/13/2017			8.08						
1/16/2017						8.85			
2/27/2017									139
3/6/2017			8.64						
3/7/2017				32.7	2.34				
3/9/2017						8.4			
5/1/2017			13.4	37					
5/2/2017					2.17	12.9			
5/10/2017									130
6/27/2017				36.5	2.13				
6/29/2017			8.81						
7/10/2017						8.09			
7/11/2017									172
10/3/2017				30.9	2.15				
10/5/2017			9.29						
10/11/2017	2.74					6.36			
10/12/2017		2.9					190	44.5	144
11/20/2017	1.81	10.4					184		
11/21/2017								44.4	
1/10/2018		10.2							
1/11/2018	1.54							43.9	
1/12/2018							178		
2/19/2018		<25						45.3	
2/20/2018	1.71						184		
4/3/2018	1.4	6.3					174	42.7	
4/4/2018									137
6/6/2018				26.2					
6/7/2018			8.2		2.3				
6/12/2018						4.7			
6/27/2018								42.2	
6/28/2018	1.4	6.7					190		
8/7/2018	1.2	6.3					176	40.7	
9/20/2018									108
9/24/2018	1.1	5.7					172	38.5	
9/26/2018			9.5 (J)	25.8	2.3				
9/27/2018						4.1			
3/26/2019		5.6							
3/27/2019	1.5						155		109
3/28/2019								26	
4/3/2019			8.4	24.7 (J)	2.8				

Constituent: Calcium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/4/2019						3.7			
9/24/2019				25.8	2.5				
9/25/2019			9.5						
9/27/2019						3.7			
10/9/2019	2.4	4.9					133	27.6	92
3/24/2020		4.8		26.1	2.5				
3/25/2020	2.7		10.5				124	29.6	107
3/26/2020						5.6			
9/22/2020			9.6	27.2	2.6				
9/24/2020	3.7	4.4				7.9			84.3
9/25/2020							93.7	20.5	
3/2/2021				1.6	2.6				
3/3/2021			7.7						
3/4/2021	8.2	4.6				10.2	87	16.4	90.7

Constituent: Calcium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016						12	2.5		
6/2/2016					1.3				1.3
7/25/2016							2.16		1.17
7/26/2016					1.24	11			
8/30/2016			20.9						
8/31/2016	3.4			9.31					
9/1/2016		13.9							
9/13/2016						11.8	2.21		
9/14/2016								23.5	
9/15/2016					1.17				
9/19/2016									1.05
11/1/2016						11			1.14
11/2/2016					1.23				
11/4/2016							2.67	23.7	
11/14/2016			18.6						
11/15/2016		13.5							
11/16/2016	3.79								
11/28/2016				9.47 (B)					
12/15/2016				(_)				23.1	
1/10/2017					1 24			20.1	
1/11/2017						11.2			
1/16/2017						11.2	2.45	23.3	1 23
2/21/2017							2.45	20.0	1.25
2/21/2017				10.4					1.25
2/22/2017	6.40		16.1	10.4					
2/24/2017	0.42	10 5	10.1						
2/2//2017		12.5					0.57		
3/2/2017						11	2.57	05.4	
3/3/2017								25.1	
3/8/2017					1.21				
4/26/2017					1.14				1.03
4/2//2017						11.1	2.38		
4/28/2017								30.7	
5/8/2017			14.6	14.2					
5/9/2017		14.4							
5/10/2017	7.9								
5/26/2017								26.2	
6/27/2017						13.8	2.36		
6/28/2017								26.1	
6/30/2017					1.24				1.13
7/11/2017	6.71		14.3						
7/13/2017		14.1							
7/17/2017				14.1					
10/3/2017						14	2.21	26.7	
10/4/2017									1.09
10/5/2017					1.11				
10/10/2017			12.1						
10/11/2017		12.4							
10/12/2017	7.05								
10/16/2017				13.6					
2/19/2018				<25					
4/2/2018			<25						
4/4/2018	8.6	<25							

Constituent: Calcium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/5/2018						15.2 (J)			
6/6/2018							2.3		
6/7/2018								25	
6/8/2018					1.1				
6/11/2018									1.1
8/6/2018				11.4 (J)					
9/19/2018			11.1 (J)						
9/20/2018	15.9 (J)	12 (J)							
10/1/2018					0.99	15.1	1.8	25	
10/2/2018									1.1
2/25/2019				12.7 (J)					
3/27/2019			10.8 (J)						
3/28/2019	8.9	11.3 (J)				13.3 (J)	2.2		
3/29/2019					1.1			23.5 (J)	
4/1/2019									1.3
6/12/2019				18.9					
9/24/2019						15.8	2.3	26.4	
9/25/2019					1.1				1.1
9/26/2019		12.1							
10/8/2019			9.7	28.3					
10/9/2019	18.2								
3/17/2020			14.8	24.3					
3/18/2020					1.1		2.1		
3/19/2020						15		27.4	1.2
3/25/2020	12.1	13.2							
9/22/2020			10.1	31					
9/23/2020						14.1	1.8	26.3	
9/24/2020		12							1.1
9/25/2020	19.8				1.3				
3/1/2021			10.3						1.2
3/2/2021				34.2	1.2				
3/3/2021						14.1	1.8	25.6	
3/4/2021	32.2	13							

Constituent: Calcium (mg/L) Analysis Run 5/6/2021 8:36 PM

			D7 25	D7 27	VCIMC 248A	VCIMC 224
6/1/2016	rGWA-3D (bg)	rGWA-3I (bg)	PZ-35	PZ-37	IGWC-245A	TGWC-30A
6/2/2016	28	21				
6/8/2016	20				1 9	
7/25/2016		20.3			1.5	
7/26/2016	24.5	20.0				
8/1/2016	24.0				1.83	
9/2/2016						11.2
9/14/2016		19.7				
9/15/2016	27					
9/20/2016					1.78	
11/1/2016	25.6	18.4				
11/8/2016					1.77	
11/14/2016						7.79
1/11/2017	27.5	20.3				
1/17/2017					1.7	
2/28/2017						8.37
3/1/2017		18.6				
3/2/2017	27.5					
3/8/2017					1.77	
4/26/2017	30.4	25.6				
5/2/2017					1.57	
5/9/2017						13.9
6/28/2017	29.8	23.9				
7/7/2017					1.8	
7/13/2017						16.6
9/22/2017						18.4
9/29/2017						16.1
10/4/2017	29.7	22.1				
10/5/2017					1.7	
10/6/2017						16.6
10/11/2017						18.1
10/12/2017				122		
11/21/2017				118		
1/11/2018				119		
2/20/2018				124		
4/3/2018				114		
6/7/2018	29.1					
6/8/2018		21.9 (J)				
6/12/2018					1.8	
6/13/2018						18.7 (J)
6/29/2018				129		
8/6/2018				114		
9/24/2018				115		
9/26/2018					1.7	19.8 (J)
10/1/2018	26.9	19.7				
10/16/2018			6.5			
4/1/2019	30.1	20.4 (J)				
4/4/2019					1.9	16.9 (J)
9/25/2019	29.5	22.4				
9/26/2019			4.7		1.7	11.7
3/19/2020	31.5	21.9	7.0			
3/25/2020			7.9			10.6

Constituent: Calcium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
3/26/2020					1.7	
9/23/2020	28.6	23.6			2.4	
9/24/2020			3.6			
9/25/2020				108		
10/7/2020						9.9
3/3/2021	29.8	20.6			2.4	
3/4/2021			4.4	118		5.6

Constituent: Chloride (mg/L) Analysis Run 5/6/2021 8:36 PM

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (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
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
1/11/2017					4.7	6.5	6.1		
1/13/2017								2.3	2.5
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				
6/28/2017						7	6.4		
6/29/2017					4.5			2.6	2.8
10/3/2017									2.2
10/4/2017					4.7		6.8	2.6	
10/5/2017						7			
6/5/2018									1.7
6/6/2018								2.7	
6/7/2018						6.8			
6/11/2018					4.9		6.8		
9/25/2018					5.6	7.9	7.8	3.6	2.2
10/16/2018	12.1								
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	6.4					7	7.1		
3/24/2020					5	7	6.8	2.7	2.8
3/25/2020	7.7								
9/23/2020		2.7	1.8		6.6	7.2	7.2		
9/24/2020	6.6			3.7				2.7	2
3/3/2021	6.1	2.5	22.9		7.1	7	7.2	2.7	
3/4/2021				3.7					1.8

Constituent: Chloride (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			3.7	7.2	4.3				
6/7/2016						2.9			
7/26/2016			3.6	6.6	4.4				
7/28/2016						3.5			
8/30/2016									4.4
9/14/2016			3.4	6.6	3.8				
9/20/2016						2.4			
11/2/2016			4.5	7.6					
11/4/2016					4.8				
11/8/2016						2.8			
11/16/2016									4.7
1/12/2017				6.8	3.8				
1/13/2017			4.2						
1/16/2017						1.8			
2/27/2017									4.7
3/6/2017			3.6						
3/7/2017			0.0	6.8	4.5				
3/9/2017				0.0		17			
5/1/2017			13	72					
5/2/2017			4.5	1.2	4.6	1.8			
5/10/2017					4.0	1.0			11
6/27/2017				7	13				4.4
6/20/2017			4.2	7	4.5				
7/10/2017			4.2			1.0			
7/10/2017						1.9			47
10/2/2017				0.5	4.0				4.7
10/3/2017			47	0.5	4.2				
10/5/2017	2.4		4.7			0.4			
10/11/2017	2.4					2.4			10
10/12/2017		3.8					6	3.1	4.3
11/20/2017	1.8	4.4					6.9	10	
11/21/2017								4.2	
1/10/2018		4.6							
1/11/2018	1.6							3.8	
1/12/2018							6.6		
2/19/2018		4.6						3.5	
2/20/2018	2						6.2		
4/3/2018	3.3	5.9					6.9	4.4	
4/4/2018									3.7
6/6/2018				4.7					
6/7/2018			4.4		4.5				
6/12/2018						1.8			
6/27/2018								3.6	
6/28/2018	2.1	5					6.4		
8/7/2018	1.2	4.3					5.5	3.3	
9/20/2018									3.8
9/24/2018	1.3	4.9					5.9	3.3	
9/26/2018			4.8	4.8	5.1				
9/27/2018						2			
3/26/2019		4.4							
3/27/2019	1.4						6.2		3.9
3/28/2019								3.2	
4/3/2019			4.3	4	4.2				
Constituent: Chloride (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/4/2019						1.7			
9/24/2019				3.7	4.5				
9/25/2019			4.5						
9/27/2019						1.7			
10/9/2019	2.1	5.1					5	3.3	4.1
3/24/2020		4.7		3.5	4.3				
3/25/2020	1.9		3.9				4	2.7	3.2
3/26/2020						1.6			
9/22/2020			4.5	3.6	4.2				
9/24/2020	2.7	5				2			3.3
9/25/2020							4	3	
3/2/2021				3.2	4.3				
3/3/2021			4.1						
3/4/2021	4.9	4.9				1.8	3.9	3.4	2.7

Constituent: Chloride (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016						1.3	1.6		
6/2/2016					4.1				1.9
7/25/2016							1.4		1.7
7/26/2016					4	1.2			
8/30/2016			5.2						
8/31/2016	1.5			4					
9/1/2016		5.3							
9/13/2016						11	13		
9/14/2016								11	
9/15/2016					12				
9/19/2016					7.2				16
11/1/2016						1.2			1.0
11/2/2016					4.0	1.5			1.0
11/2/2016					4.9		1.0		
11/4/2016							1.0	1.4	
11/14/2016			6.4						
11/15/2016		5.8							
11/16/2016	1.7								
11/28/2016				4.2					
12/15/2016								2.9	
1/10/2017					4.1				
1/11/2017						1.1			
1/16/2017							1.4	0.98	1.7
2/21/2017									1.7
2/22/2017				3.7					
2/24/2017	1.5		5.5						
2/27/2017		4.6							
3/2/2017						1	1.3		
3/3/2017								1.1	
3/8/2017					4.2				
4/26/2017					4.1				1.7
4/27/2017						1	1.3		
4/28/2017								0.91	
5/8/2017			5.8	42					
5/9/2017		53							
5/10/2017	12	0.0							
5/26/2017	1.2							0.93	
6/27/2017						1 1	14	0.00	
6/28/2017						1.1	1.4	1	
0/28/2017					2.7			1	1.0
0/30/2017	1 5		F 9		3.7				1.0
7/11/2017	1.5	4.7	ə.ŏ						
7/13/2017		4./							
//1//2017				3.8					
10/3/2017						1.1	1.7	1.2	
10/4/2017									1.8
10/5/2017					3.8				
10/10/2017			5.9						
10/11/2017		5.8							
10/12/2017	1.6								
10/16/2017				4.2					
2/19/2018				4.3					
4/2/2018			4.8						
4/4/2018	1.8	4.3							

65/20191.164/201914164/20183.4164/20183.8264/20183.81.161/202084.81.161/202084.81.110/202084.81.110/202084.31.110/202084.31.110/202084.31.110/202084.31.110/202084.31.110/202084.31.110/202084.31.110/202084.31.110/202084.41.120/2020951.110/2020951.110/2020951.110/2020951.110/2020951.110/202094.45210/2020951.110/2020951.110/2020951.110/2020951.110/202096.11.110/2020951.110/202091.11.310/202091.11.310/202091.11.310/202091.11.310/202091.11.310/202091.11.310/202091.11.310/202091.11.310/202091.11.310/202091.11.310/202091.11.310/202091.11.310/202091.1 <th></th> <th>YGWC-43</th> <th>YGWC-49</th> <th>YGWA-47 (bg)</th> <th>GWA-2 (bg)</th> <th>YGWA-14S (bg)</th> <th>YGWA-1D (bg)</th> <th>YGWA-1I (bg)</th> <th>YGWA-2I (bg)</th> <th>YGWA-30I (bg)</th>		YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
66/20181.467/20183.4167/20183.4261/12/013.8291/20184.81.110/12/20184.81.110/202084.81.122/202094.81.122/202094.81.122/202094.81.122/202094.81.122/202094.11.122/202094.11.122/202094.11.122/202094.11.122/202094.11.121/202094.11.121/202094.11.121/202094.11.121/202094.11.121/2020951.121/202094.45.121/202094.45.121/2020951.121/202094.45.121/202094.45.221/202094.45.221/202095.11.121/202094.14.221/202094.11.121/202095.21.121/202095.21.121/202094.25.221/202095.35.121/202095.35.121/202095.35.121/202095.35.121/202095.35.121/202095.35.121/202095.35.121/202095.35.121/	6/5/2018						1.1			
67/20183.43.43.468/20183.83.84.45.891/920201.94.84.84.410//22034.83.81.11.410//22034.84.44.45.4225/20194.34.31.41.6225/20194.34.44.45.4225/20194.34.44.71.2225/201954.71.11.2225/20196.34.46.45.4225/201974.37.41.6225/201974.37.41.6225/201977.47.41.6225/201977.47.41.6225/201977.47.41.6225/201977.47.47.4225/201977.47.47.4225/201977.47.47.4225/201977.47.47.4225/201977.47.47.4225/201977.47.47.4225/20197.47.47.47.4225/20197.47.47.47.4225/20197.47.47.47.4225/20197.47.47.47.4225/20197.47.47.47.4225/20197.47.47.47.4225/20197.47.47.47.4 <tr< td=""><td>6/6/2018</td><td></td><td></td><td></td><td></td><td></td><td></td><td>1.4</td><td></td><td></td></tr<>	6/6/2018							1.4		
3491920182919201839192018391920184920201811192020181110/220181110/220181112/220191111111122/201911111111111111111111111111111111111111111111111 <td>6/7/2018</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td>	6/7/2018								1	
61120183.899192018449202018194.89202018194.89202018194.892220204.31.192220204.31.192220204.31.292220204.41.19222020184.49222020184.4922202051.1922202051.1922202051.1922202051.1922202051.1922202051.1922202051.192220204.11.1922202051.1922202051.192220201.11.192220201.11.192220201.11.192220201.11.192220201.11.192220201.11.192220201.11.192220201.11.192220201.11.192220201.11.192220201.11.292220201.11.292220201.11.292220201.11.292220201.11.292220201.11.292220201.11.292220201.11.292220201.11.292220201.11.292220201.11.2	6/8/2018					3.4				
389/19/201849/19/2018194.810/1/20183.81.11.410/20183.81.11.410/20184.31.11.42/27/0194.31.41.53/28/20194.31.41.53/28/20191.84.41.411/20194.71.111/20194.71.19/24/201954.79/24/201954.89/24/201951.19/24/201951.19/24/201951.19/24/20194.45.19/24/20194.45.19/24/20194.45.19/24/20194.15.19/24/20194.14.89/24/20194.15.29/24/20194.15.29/24/20194.15.29/24/20194.15.29/24/20195.29/24/20195.29/24/20194.39/24/20195.29/24/20195.39/22/20206.69/22/20205.39/22/20205.39/22/20205.39/22/20205.39/22/20205.39/22/20205.39/22/20205.39/22/20205.49/22/20205.49/22/20205.49/22/20205.49/22/20205.49/22/20205.4 <t< td=""><td>6/11/2018</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td></t<>	6/11/2018									2
9192011,949202031,94,81,11,41,110/20184,11,11,81,21,82520194,31,41,51,21,22520201,84,41,41,51,22520201,84,41,41,21,22520201,84,41,41,30,95()2520201,84,41,11,30,95()25202051,11,30,95()925201951,11,41,4925202051,11,41,492520204,14,81,11,492520201,84,11,11,492520201,84,11,11,492520201,84,11,11,492520201,84,11,11,492520201,84,11,11,492520201,84,11,11,492520201,84,11,11,21,692520201,84,11,11,21,592520202,35,35,35,35,3925202155,35,35,35,3925202155,35,35,35,3925202155,35,35,35,3925202155,45,35,35,3925202155,45,45,49252	8/6/2018				3.8					
92020181.94.8101/2018II1.41.1102/2018IIII2252019IIII3272019IIII322019IIIII322019IIIII322019IIIII322019IIIII9242019IIIII9242019IIIII9242019IIIII9242019IIIII9242019IIIII9242019IIIIII9242019IIIIII9242019IIIIII9242019IIIIII925020IIIIII917020IIIIII917020IIIIII922020IIIIII922020IIIIII922020IIIIII922020IIIIII922020IIIIII922020II	9/19/2018			4						
10//2018       3.8       1.1       1.4       1.1         10/2018       3.8       1.0       1.4       1.4         2/25/019       4.3       1.4       1.5       1.4         3/28/019       1.8       4.4       1.4       1.5       1.7         3/29/019       1.8       4.4       1.4       1.5       1.7         3/29/019       1.8       4.4       1.4       1.5       1.7         9/29/019       1.8       4.4       1.4       1.5       1.7         9/24/019       1.8       4.4       1.4       1.5       1.6         9/24/019       5       1.1       1.3       0.95(.0)       1.6         9/24/019       5       1.1       1.3       0.95(.0)       1.6         9/24/019       5       1.1       1.3       0.95(.0)       1.6         9/24/019       5       1.1       1.3       0.95(.0)       1.6         9/24/019       2.3       1.1       1.1       0.97(.0)       1.8         9/17/020       1.8       1.1       0.97(.0)       1.8       1.1         9/24/019       1.8       1.1       0.97(.0)       1.8       1.1     <	9/20/2018	1.9	4.8							
10/2018       1.8         2252019       4.1         3272019       4.3         328/019       1.8         329/019       1.4         329/019       1.2         329/019       1.2         4/1/2019       1.2         4/1/2019       1.2         9/24/019       1.3         9/24/019       4.7         9/24/019       1.1         9/24/019       4.7         9/24/019       4.8         9/24/019       5         10/90/019       5         10/90/019       5         11/100       1.3         11/100       1.4         11/100       1.4         11/100       1.4         11/100       1.4         11/100       1.4         11/100       1.4         11/100       1.4         11/100       1.4         11/100       1.4         11/100       1.4         11/100       1.4         11/100       1.4         11/100       1.5         11/100       1.5         11/100       1.6         11/100	10/1/2018					3.8	1.1	1.4	1.1	
2252019       4.1         3127/2019       4.3         3128/2019       1.8       4.4         3129/2019       1.8         3129/2019       1.8         3129/2019       2.2         3129/2019       1.2         3129/2019       1.1         3129/2019       1.1         3129/2019       3.1         3129/2019       4.7         3129/2019       5         3129/2019       5         3129/2019       5         3129/2019       5         3139/2020       5         3111       1.3         3119/2020       5.1         3119/2020       1.4         3119/2020       1.8         3119/2020       1.8         3129/2020       1.8         3139/2020       1.8         3129/2020       1.8         3129/2020       1.8         3129/2020       3.6         329/2020       3.6         329/2020       3.6         329/2020       3.6         329/2020       3.6         329/2020       3.6         329/2020       3.6         329	10/2/2018									1.8
32720194.3328/0191.84.41.41.5329/0191.21.21.741/20191.21.71.761/320191.41.11.30.95 (J)924/20191.11.30.95 (J)924/201951.11.30.95 (J)926/201951.11.30.95 (J)926/201951.11.30.95 (J)917/02064.45.11.11.3917/0201.45.11.11.4917/92021.45.21.10.97 (J)1.8917/92021.84.15.21.10.97 (J)1.8912/20201.84.15.21.10.97 (J)1.8912/20201.84.15.21.11.20.88 (J)912/20201.85.35.35.35.3912/20211.41.41.41.51.6912/20211.41.41.41.51.6912/20211.31.41.51.51.5912/20211.65.35.35.35.35.3912/20211.41.41.51.61.6912/20211.41.41.61.61.6912/20211.41.41.61.6912/20211.41.41.61.6912/20211.41.41.61.6912/20211.4 <td< td=""><td>2/25/2019</td><td></td><td></td><td></td><td>4.1</td><td></td><td></td><td></td><td></td><td></td></td<>	2/25/2019				4.1					
3/28/2019       1.8       4.4       1.4       1.5         3/29/2019       2.2       1.2       1.7         6/12/2019       4.7       1.1       1.3       0.95 (J)         9/24/2019       4.7       1.1       1.3       0.95 (J)         9/25/2019       4.7       1.1       1.3       0.95 (J)         9/25/2019       5       1.1       1.3       0.95 (J)         10/8/2019       5       1.1       1.3       0.95 (J)         10/8/2019       5       1.1       1.3       0.95 (J)         10/8/2019       4.4       5.1       1.1       1.4       1.4         11/12/202       4.4       5.1       1.1       0.97 (J)       1.8         11/12/202       4.1       4.8       1.1       0.97 (J)       1.8         11/12/202       4.1       5.2       1.1       0.97 (J)       1.8         12/22/202       1.4       4.2       2.2       1.1       0.97 (J)       1.8         12/22/202       4.6       9.99 (J)       1.2       0.88 (J)       1.5         12/22/202       4.6       5.3       1.5       1.5       1.6         12/22/202       3.7	3/27/2019			4.3						
329/2019       4/2       12         4/1/2019       4.7       1.7         9/2/2019       1.1       1.3       0.95 (.)         9/2/2019       5       1.1       1.3       0.95 (.)         9/2/2019       5       1.1       1.3       0.95 (.)         10/8/2019       5       1.1       1.3       0.95 (.)         10/8/2019       5       1.4       1.6       1.6         9/2/2019       4.4       5.1       1.1       1.3       0.95 (.)         10/9/2019       2.3       4.1       4.8       1.1       0.97 (.)       1.8         3/1/2020       1.8       4.1       4.8       1.1       0.97 (.)       1.8         3/1/2020       1.8       4.1       4.8       1.1       0.97 (.)       1.8         3/1/2020       1.8       4.1       4.2       2       1.1       0.97 (.)       1.8         9/2/2020       1.8       4.1       5.3       1.5       1.5         9/2/2020       2.3       3.7       5.3       1.6       1.6         9/2/2021       3.7       3.7       1.6       1.6         9/2/2021       0.96 (.)       1.2	3/28/2019	1.8	4.4				1.4	1.5		
4/1/2019       1.7         6/1/2019       1.7         9/2/2019       1.1       1.3       0.95 (J)         9/2/2019       5       1.6         9/2/2019       5       1.6         10/8/2019       64.4       5.1       1.6         10/9/2019       2.3       4.1       4.8       1.4         3/17/202       4.1       4.8       1.4       1.1         3/12/202       4.1       4.8       1.1       0.97 (J)       1.8         3/12/202       4.1       4.8       1.1       0.97 (J)       1.8         3/12/202       4.1       4.8       1.1       0.97 (J)       1.8         3/12/202       1.8       4.1       1.1       0.97 (J)       1.8         3/12/202       1.8       4.1       1.1       0.97 (J)       1.8         3/2/2020       1.8       4.1       1.1       0.97 (J)       1.8         9/2/2020       1.8       4.1       1.1       0.98 (J)       1.5         9/2/2020       2.3       5.3       1.5       1.6         3/2/2021       3.7       3.7       1.6       1.6         3/2/2021       3.7       3.7 </td <td>3/29/2019</td> <td></td> <td></td> <td></td> <td></td> <td>4.2</td> <td></td> <td></td> <td>1.2</td> <td></td>	3/29/2019					4.2			1.2	
6/12/2019       4.7         9/24/2019       1.1       1.3       0.95 ()         9/25/2019       5       1.6         9/26/2019       5       1.1       1.3       0.95 ()         10/8/2019       5       1.6       1.6         10/9/2019       2.3       1.4       1.1       1.4       1.1         3/19/2020       4.1       4.8       1.1       0.97 ()       1.8         3/19/2020       4.1       4.8       1.1       0.97 ()       1.8         3/19/2020       4.1       4.8       1.1       0.97 ()       1.8         3/19/2020       4.1       4.8       1.1       0.97 ()       1.8         3/19/2020       4.2       4.2       4.2       4.2       4.2       4.2       4.2       4.2       4.2       4.2       4.2       4.2       4.2       4.2       4.2       4.3       5.3       5.3       5.3       5.3       5.3       1.5       1.6         3/2/2021       3.7       5.3       5.3       1.6       1.6       1.6         3/2/2021       3.7       4.1       4.9       9.26 ()       1.6       1.6	4/1/2019									1.7
9/24/2019       1.1       1.3       0.95 (J)         9/25/2019       5       1.6         10/8/2019       5       1.1       1.3       0.95 (J)         10/8/2019       5       1.1       1.2       1.6         10/9/2019       2.3       1.1       1.4       1.1       1.1       1.1       1.1         3/17/2020       2.3       1.1       1.1       0.97 (J)       1.8         3/18/2020       4.1       4.8       1.1       0.97 (J)       1.8         3/19/2020       1.8       4.1       1.1       0.97 (J)       1.8         3/25/2020       1.8       4.1       1.1       0.99 (J)       1.2       0.88 (J)         9/23/2020       4.6       5.3       1.5       1.5         9/2/2020       3.7       5.3       1.6       1.6         9/2/2020       3.7       1.1       0.90 (J)       1.2       0.88 (J)         9/2/2020       3.7       5.3       1.6       1.6         9/2/2021       3.7       1.1       0.90 (J)       1.2       0.85 (L)	6/12/2019				4.7					
9/25/2019       5       1.6         9/26/2019       5       4.4       5.1         10/9/2019       2.3       5.2       1.4         3/17/2020       4.1       4.8       5.2         3/18/2020       1.1       0.97 (J)       1.8         3/25/2020       1.8       4.1       5.2       1.4         9/25/2020       1.8       4.1       5.2       1.4         9/25/2020       1.8       4.1       5.2       1.4         9/25/2020       1.8       4.1       5.2       1.4         9/25/2020       1.8       4.1       5.3       5.3         9/25/2020       2.3       3.7       5.3       1.6         9/25/2021       3.7       5.3       1.6         9/25/2021       4.1       4.9       1.5	9/24/2019						1.1	1.3	0.95 (J)	
9/26/2019       5         10/8/2019       4.4       5.1         10/9/2019       2.3         3/17/2020       4.1       4.8         3/18/2020       5.2       1.4         3/19/2020       1.4         3/25/2020       1.8       4.1         9/22/2020       4.6       1.1       0.97 (J)       1.8         9/22/2020       4.6       1.1       0.99 (J)       1.2       0.88 (J)         9/22/2020       4.6       5.3       1.5       1.5         9/25/2020       2.3       5.3       1.6         3/1/2021       3.7       5.3       1.6         3/2/2021       1.1       1.2       0.86 (J)	9/25/2019					4.8				1.6
108/2019       4.4       5.1         109/2019       2.3         3/17/2020       4.1       4.8         3/18/2020       5.2       1.4         3/19/2020       1.8       4.1         3/25/2020       1.8       4.1         9/22/2020       4.2       0.97 (J)       1.8         9/22/2020       4.2       0.99 (J)       1.2       0.88 (J)         9/24/2020       4.6       5.3       1.6         3/1/2021       3.7       5.3       1.6         3/2/2021       4.1       4.9       0.96 (J)       1.2       0.86 (J)	9/26/2019		5							
109/2019       2.3         3/17/2020       4.1       4.8         3/18/2020       5.2       1.4         3/19/2020       1.8       4.1         3/25/2020       1.8       4.1         9/22/2020       4.2       4.2         9/23/2020       4.6       5.3         9/24/2020       3.7       5.3         3/1/2021       3.7       1.6         3/2021       4.1       4.9	10/8/2019			4.4	5.1					
3/17/2020       4.1       4.8         3/18/2020       5.2       1.4         3/19/2020       1.8       4.1         3/25/2020       1.8       4.1         9/22/2020       4.2       4.2         9/23/2020       6.99 (J)       1.2         9/24/2020       4.6       5.3         3/1/2021       3.7       5.3         3/1/2021       3.7       1.6         3/2/2021       4.1       4.9	10/9/2019	2.3								
3/18/2020       5.2       1.4         3/19/2020       1.8       4.1       1.1       0.97 (J)       1.8         9/22/2020       1.8       4.1       1.1       0.97 (J)       1.8         9/22/2020       4.2       4.2       9.99 (J)       1.2       0.88 (J)         9/23/2020       4.6       5.3       1.5       1.5         9/25/2020       2.3       5.3       1.6         3/1/2021       3.7       1.6       1.6         3/2/2021       4.1       4.9       4.9       0.96 (J)       1.2       0.86 (J)	3/17/2020			4.1	4.8					
3/19/2020       1.8       4.1       0.97 (J)       1.8         9/22/2020       1.8       4.2       4.2       4.2       4.2         9/23/2020       4.6       0.99 (J)       1.2       0.88 (J)         9/25/2020       2.3       5.3       1.5         3/1/2021       3.7       5.3       1.6         3/2/2021       4.1       4.9       4.9	3/18/2020					5.2		1.4		
3/25/2020       1.8       4.1         9/22/2020       4.2       4.2         9/23/2020       0.99 (J)       1.2       0.88 (J)         9/24/2020       4.6       1.5         9/25/2020       2.3       5.3       1.6         3/1/2021       3.7       1.6         3/2/2021       4.1       4.9       0.96 (J)       1.2       0.86 (J)	3/19/2020						1.1		0.97 (J)	1.8
9/22/2020     4.2     4.2       9/23/2020     0.99 (J)     1.2     0.88 (J)       9/24/2020     4.6     1.5       9/25/2020     2.3     5.3     1.6       3/1/2021     3.7     1.6       3/2/2021     4.1     4.9	3/25/2020	1.8	4.1							
9/23/2020     0.99 (J)     1.2     0.88 (J)       9/24/2020     4.6     1.5       9/25/2020     2.3     5.3       3/1/2021     3.7     1.6       3/2/2021     4.1     4.9	9/22/2020			4.2	4.2					
9/24/2020     4.6     1.5       9/25/2020     2.3     5.3       3/1/2021     3.7     1.6       3/2/2021     4.1     4.9	9/23/2020						0.99 (J)	1.2	0.88 (J)	
9/25/2020     2.3     5.3       3/1/2021     3.7     1.6       3/2/2021     4.1     4.9       3/3/2021     0.96 (l)     1.2     0.86 (l)	9/24/2020		4.6							1.5
3/1/2021     3.7     1.6       3/2/2021     4.1     4.9       3/3/2021     0.96 (l)     1.2	9/25/2020	2.3				5.3				
3/2/2021 4.1 4.9	3/1/2021			3.7						1.6
	3/2/2021				4.1	4.9				
	3/3/2021						0.96 (J)	1.2	0.86 (J)	
3/4/2021 2.1 4.1	3/4/2021	2.1	4.1				. /		. ,	

Constituent: Chloride (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		1.3				
6/2/2016	1.4					
6/8/2016					5.9	
7/25/2016		1.3				
7/26/2016	1.6					
8/1/2016					5.3	
9/2/2016						6.3
9/14/2016		1.3				
9/15/2016	1.5					
9/20/2016					5.5	
11/1/2016	1.7	1.4				
11/8/2016					6.4	
11/14/2016						6.7
1/11/2017	1.2	1.1				
1/17/2017					5.5	
2/28/2017						5.4
3/1/2017		1.1				
3/2/2017	1.2					
3/8/2017					5.4	
4/26/2017	1.2	1.1				
5/2/2017					5.7	
5/9/2017						5.7
6/28/2017	1.3	1.2				
7/7/2017					5.7	
7/13/2017						5.4
9/22/2017						6.9
9/29/2017						5.5
10/4/2017	1.5	1.2				
10/5/2017					6	
10/6/2017						5.5
10/11/2017						6.4
10/12/2017				5.4		
11/21/2017				6.5		
1/11/2018				5		
2/20/2018				5.2		
4/3/2018				4.8		
6/7/2018	12					
6/8/2018		12				
6/12/2018					62	
6/13/2018					0.2	5.6
6/29/2018				57		0.0
8/6/2018				1.8		
0/0/2018				4.0		
0/26/2018				4.5	6.0	6
9/20/2018	1 6	1.2			0.9	0
10/1/2018	1.5	1.2	9 E			
10/10/2018	10		0.0			
4/1/2019	1.2	1.1			5.0	54
4/4/2019					5.9	5.4
9/25/2019	1.1	1.1	7.5		0.5	74
9/26/2019	4.0		1.5		5.J	7.1
3/19/2020	1.2	1.1				
3/25/2020			6.8			b.3

Constituent: Chloride (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
3/26/2020					5.4	
9/23/2020	1.1	1			9.3	
9/24/2020			7.5			
9/25/2020				4.3		
10/7/2020						8.7
3/3/2021	1.1	0.99 (J)			8.6	
3/4/2021			6.7	3.9		6.6

Constituent: Chromium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (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
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
1/11/2017					<0.005	<0.005	<0.005		
1/13/2017								<0.005	<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)				
6/28/2017						0.0006 (J)	<0.005		
6/29/2017					0.0006 (J)			0.0005 (J)	<0.005
3/28/2018					<0.005	<0.005	<0.005		
3/29/2018								<0.005	<0.005
3/5/2019					<0.005		<0.005	<0.005	<0.005
3/6/2019						<0.005			
2/11/2020					0.00087 (J)	0.001 (J)	0.00088 (J)		
2/12/2020								0.00045 (J)	<0.005
3/24/2020					0.00087 (J)	0.00095 (J)	0.0011 (J)	0.00077 (J)	<0.005
3/25/2020	0.00058 (J)								
9/23/2020		0.00071 (J)	<0.005		0.00098 (J)	0.00092 (J)	0.0012 (J)		
9/24/2020	0.00074 (J)			<0.005				0.00076 (J)	<0.005
2/9/2021	0.001 (J)	0.0011 (J)	0.00057 (J)	<0.005		0.00083 (J)	0.0013 (J)	0.00056 (J)	<0.005
3/3/2021	0.00076 (J)	0.0012 (J)	<0.005		0.00082 (J)	0.00087 (J)	0.001 (J)	<0.005	
3/4/2021				<0.005					<0.005

Constituent: Chromium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGW/A-39 (ba)	YGWA-40 (ba)	YGWA-4L(ba)		YGWA-5L(ba)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016	TGWA-39 (bg)	1 GWA-40 (bg)	<0.005	<0.005	<0.005	1000-255	1000-38	1000-41	1600-42
6/7/2016			-0.003	-0.000	-0.003	<0.005			
7/26/2016			<0.005	<0.005	<0.005	-0.000			
7/28/2016			0.000	0.000	0.000	0 0008 (.1)			
8/30/2016						0.0000 (0)			<0.005
9/14/2016			<0.005	<0.005	<0.005				-0.000
9/20/2016			0.000	0.000	0.000	<0.005			
11/2/2016			<0.005	<0.005		0.000			
11/4/2016			0.000	0.000	<0.005				
11/8/2016					-0.000	<0.005			
11/16/2016						0.000			<0.005
1/12/2017				<0.005	<0.005				-0.000
1/13/2017			<0.005	-0.000	-0.000				
1/16/2017			0.000			<0.005			
2/27/2017						0.000			<0.005
3/6/2017			<0.005						0.000
3/7/2017			-0.000	<0.005	<0.005				
3/9/2017				0.000	0.000	<0.005			
5/1/2017			<0.005	0.0004 (J)		-0.000			
5/2/2017			-0.003	0.0004 (3)	<0.005	0.0007 (1)			
5/10/2017					-0.000	0.0007 (0)			0 0006 ( 1)
6/27/2017				<0.005	<0.005				0.0000 (0)
6/29/2017			<0.005	-0.005	-0.003				
7/10/2017			-0.003			<0.005			
7/11/2017						\$0.000			<0.005
10/11/2017	<0.005								-0.000
10/12/2017	<0.005	<0.005					0.0005 ( 1)	<0.005	<0.005
11/20/2017	<0.005	<0.005					<0.005	-0.000	-0.000
11/21/2017	<0.005	<0.005					~0.005	<0.005	
1/10/2018		<0.005						<0.005	
1/10/2018	<0.005	<0.005						<0.005	
1/12/2018	<0.005						<0.005	<0.005	
2/10/2018		<0.005					~0.005	<0.005	
2/19/2018	<0.005	<0.005					<0.00E	<0.005	
2/20/2018	<0.005		<0.005	<0.005	<0.005		<0.005		
3/20/2018			~0.005	<0.005	~0.005	<0.005			
4/2/2018	<0.005	<0.005				<0.005	<0.00E	<0.005	
4/3/2018	<0.005	<0.005					~0.005	<0.005	<0.005
6/27/2018								<0.005	-0.000
6/28/2018	<0.005	<0.005					<0.005	-0.000	
8/7/2018	<0.005	<0.005					<0.005	<0.005	
0/20/2018	~0.005	~0.005					<0.005	~0.005	<0.005
9/20/2018	<0.005	<0.005					<0.00E	<0.00E	<0.005
9/24/2010	<0.005	<0.005	<0.00E	<0.00E	<0.00E		<0.005	<0.005	
3/4/2019			<0.005	<0.005	<0.005	<0.005			
8/21/2010	<0.005	0.00052 (1)				<0.005			
8/21/2019	<0.005	0.00055 (5)					<0.00E	<0.00E	<0.00E
012212019	<0.005	0.0012 ( 1)					~0.005	<0.005	~0.003
10/9/2019				<0.005	0.00042.(1)		<0.005	<0.005	0.00043 (J)
2/12/2020	<0.005	0.00055 (J)	C000	~0.005	0.00043 (J)				
3/25/2020	<0.005	0.00033 (J)	0.00059 ( !)	<u>∼0.003</u>	0.0014 (J)		0.00065 ( !)	0.00030.(1)	0.0013 ( !)
312312020	~U.UU3		(L) 86000.0			0.0010 ( 1)	0.00000 (J)	0.00039 (J)	0.0013 (J)
312012020						0.0019 (J)			

Constituent: Chromium (mg/L) Analysis Run 5/6/2021 8:36 PM

9/22/2020	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg) <0.005	YGWA-5D (bg) 0.0011 (J)	YGWA-5I (bg) <0.005	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
9/24/2020	<0.005	<0.005				0.0011 (J)			<0.005
9/25/2020							<0.005	<0.005	
2/8/2021				<0.005	<0.005				
2/9/2021			<0.005			0.00086 (J)	<0.005		
2/10/2021	<0.005	<0.005						<0.005	<0.005
3/2/2021				<0.005	<0.005				
3/3/2021			0.0013 (J)						
3/4/2021	<0.005	<0.005				0.00078 (J)	<0.005	<0.005	<0.005

Constituent: Chromium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (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				<0.000					
3/5/2012				<0.005					
9/10/2012				<0.005					
2/6/2013				<0.005					
2/0/2013				<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					
6/1/2016						0.0035	<0.005		
6/2/2016					<0.005				<0.005
7/25/2016							<0.005		<0.005
7/26/2016					<0.005	<0.005			
8/30/2016			<0.005						
8/31/2016	<0.005			<0.005					
9/1/2016		0.0013 (J)							
9/13/2016						<0.005	<0.005		
9/14/2016								<0.005	
9/15/2016					<0.005				
9/19/2016									<0.005
11/1/2016						<0.005			<0.005
11/2/2016					<0.005				
11/4/2016							<0.005	<0.005	
11/14/2016			0.0093 (J)						
11/15/2016		0.0014 (J)							
11/16/2016	<0.005								
11/28/2016				<0.005					
12/15/2016				0.000				<0.005	
1/10/2017					<0.005			0.000	
1/11/2017					-0.000	<0.005			
1/16/2017						-0.003	<0.005	<0.00E	<0.00E
2/21/2017							<0.005	<0.005	<0.005
2/21/2017				<0.00F					<0.005
2/22/2017	0.005			<0.005					
2/24/2017	<0.005		<0.005						
2/2//201/		0.0016 (J)							
3/2/2017						0.0009 (J)	0.0004 (J)		
3/3/2017								0.0005 (J)	
3/8/2017					<0.005				
4/26/2017					<0.005				0.0016 (J)
4/27/2017						<0.005	<0.005		
4/28/2017								0.0004 (J)	
5/8/2017			<0.005	<0.005					

#### Constituent: Chromium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
5/9/2017		0.0017 (J)							
5/10/2017	0.0005 (J)								
5/26/2017								<0.005	
6/27/2017						<0.005	<0.005		
6/28/2017								<0.005	
6/30/2017					<0.005				<0.005
7/11/2017	<0.005		<0.005						
7/13/2017		0.0019 (J)							
7/17/2017				<0.005					
10/10/2017			<0.005						
10/11/2017		0.0014 (J)							
10/12/2017	<0.005								
10/16/2017				<0.005					
2/19/2018				<0.005					
3/27/2018					<0.005		<0.005		<0.005
3/28/2018								<0.005	
3/29/2018						<0.005			
4/2/2018			<0.005						
4/4/2018	<0.005	<0.005							
8/6/2018	0.000	0.000		<0.005					
9/19/2018			<0.005	0.000					
9/20/2018	<0.005	0.0017 ( 1)	-0.000						
3/25/2010	<0.005	0.0017 (3)		<0.005					
2/25/2019				<0.005	<0.005				<0.005
2/20/2019					<0.005	<0.00F	<0.00F	<0.00F	<0.005
2/27/2019						<0.005	<0.005	<0.005	
3/28/2019					0.005	<0.005	0.0021 (J)	0.005	
3/29/2019					<0.005			<0.005	
4/1/2019									<0.005
6/12/2019				<0.005					
8/19/2019				<0.005					
8/20/2019			<0.005						
8/21/2019	0.00062 (J)								
9/24/2019						0.00072 (J)	0.0028 (J)	<0.005	
9/25/2019					<0.005				<0.005
10/8/2019				<0.005					
10/9/2019	0.00074 (J)								
2/10/2020						0.00042 (J)	<0.005		
2/11/2020								<0.005	
2/12/2020					<0.005				<0.005
3/17/2020				<0.005					
3/18/2020					<0.005		0.00044 (J)		
3/19/2020						0.00084 (J)		0.00048 (J)	<0.005
3/25/2020	<0.005	0.0019 (J)							
8/26/2020				<0.005					
8/27/2020			<0.005						
9/22/2020			<0.005	<0.005					
9/23/2020						0.00062 (J)	0.00058 (J)	<0.005	
9/24/2020		0.0019 (J)							<0.005
9/25/2020	0.00071 (J)				<0.005				
2/9/2021	<0.005	0.002 (J)							
2/10/2021					<0.005			<0.005	
2/11/2021									<0.005

#### Constituent: Chromium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
2/12/2021						<0.005	<0.005		
3/1/2021			<0.005						<0.005
3/2/2021				<0.005	<0.005				
3/3/2021						<0.005	<0.005	<0.005	
3/4/2021	<0.005	0.0017 (J)							

Constituent: Chromium (mg/L) Analysis Run 5/6/2021 8:36 PM

6/1/2016	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016	0.0012 (1)	-0.003				
0/2/2010	0.0013 (J)				-0.005	
7/25/2016		<0.005			<0.005	
7/25/2016	<0.00F	<0.005				
7/20/2010	<0.005				<0.00E	
8/1/2010					<0.005	<0.00E
9/2/2010		<0.005				~0.003
9/14/2016	<0.00F	<0.005				
9/13/2010	<0.005				<0.005	
11/1/2016	<0.005	<0.005			~0.005	
11/9/2016	<0.005	~0.005			<0.005	
11/1/2016					<0.005	0.0035
1/11/2017	<0.005	<0.005				0.0055
1/17/2017	<0.005	<0.005			<0.00E	
2/28/2017					<0.005	<0.00E
2/28/2017		0.0004 ( 1)				~0.005
3/1/2017	0.0006 ( 1)	0.0004 (3)				
3/2/2017	0.0000 (3)				<0.005	
1/26/2017	<0.005	<0.005			~0.005	
5/2/2017	-0.005	~0.005			0.0011 ( 1)	
5/9/2017					0.0011(3)	<0.005
6/28/2017	<0.005	<0.005				-0.000
7/7/2017	0.000	0.000			<0.005	
7/13/2017						<0.005
9/22/2017						<0.005
9/29/2017						<0.005
10/6/2017						<0.005
10/12/2017				0.0019 (J)		
11/21/2017				0.0017 (J)		
1/11/2018				0.001 (J)		
2/20/2018				<0.005		
3/28/2018	<0.005	<0.005				
3/30/2018					<0.005	<0.005
4/3/2018				<0.005		
6/29/2018				<0.005		
8/6/2018				<0.005		
9/24/2018				<0.005		
2/27/2019	<0.005	<0.005				
3/5/2019					<0.005	
3/6/2019						<0.005
4/1/2019	<0.005	<0.005				
9/25/2019	0.0014 (J)	0.0019 (J)				
2/11/2020		<0.005				
2/12/2020	<0.005					
3/19/2020	<0.005	<0.005				
3/25/2020			0.0012 (J)			0.00074 (J)
3/26/2020					0.00094 (J)	
9/23/2020	<0.005	<0.005			<0.005	
9/24/2020			0.00061 (J)			
9/25/2020				<0.005		
10/7/2020						0.0013 (J)

#### Constituent: Chromium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
2/9/2021				<0.005	0.0011 (J)	
2/10/2021	<0.005	<0.005	0.0006 (J)			0.00094 (J)
3/3/2021	<0.005	<0.005			<0.005	
3/4/2021			0.0007 (J)	<0.005		<0.005

Constituent: Cobalt (mg/L) Analysis Run 5/6/2021 8:36 PM

6/6/2016	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg) <0.005	YGWA-18S (bg) 0.00061 (J)	YGWA-20S (bg)	YGWA-21I (bg)
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)
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
1/11/2017					<0.005	<0.005	<0.005		
1/13/2017								<0.005	0.011
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				
6/28/2017						<0.005	<0.005		
6/29/2017					<0.005			<0.005	0.0093 (J)
3/28/2018					<0.005	<0.005	<0.005		
3/29/2018								<0.005	<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		
9/25/2018					<0.005	<0.005	<0.005	<0.005	0.0044 (J)
10/16/2018	0.032								
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	
9/24/2019									0.0032 (J)
9/25/2019					<0.005			<0.005	
9/26/2019	0.015					<0.005	<0.005		
1/3/2020	<0.005								
2/11/2020					<0.005	<0.005	<0.005		
2/12/2020								<0.005	0.0081
3/24/2020					<0.005	<0.005	<0.005	<0.005	0.0061
3/25/2020	<0.005								
9/23/2020		0.0025 (J)	0.00052 (J)		<0.005	<0.005	<0.005		
9/24/2020	0.01			0.00077 (J)				<0.005	0.0079
2/9/2021	0.03	0.001 (J)	0.00063 (J)	<0.005		<0.005	<0.005	<0.005	0.009
3/3/2021	0.018	0.00082 (J)	0.001 (J)		<0.005	<0.005	<0.005	<0.005	
3/4/2021				<0.005					0.0065

Constituent: Cobalt (mg/L) Analysis Run 5/6/2021 8:36 PM

6/2/2016	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg) <0.005	YGWA-5I (bg) <0.005	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/7/2016			0.00002 (0)	0.000	0.000	<0.005			
7/26/2016			0.0012 (1)	<0.00E	<0.005	-0.003			
7/20/2010			0.0012 (3)	<0.005	<0.005	-0.005			
//28/2016						<0.005			
8/30/2016									0.0025 (J)
9/14/2016			0.0006 (J)	<0.005	<0.005				
9/20/2016						<0.005			
11/2/2016			<0.005	<0.005					
11/4/2016					<0.005				
11/8/2016						<0.005			
11/16/2016									0.002 (J)
1/12/2017				<0.005	<0.005				
1/13/2017			0.0029 (J)						
1/16/2017						<0.005			
2/27/2017									0.0021 (J)
3/6/2017			0.0006 (J)						
3/7/2017				<0.005	<0.005				
3/9/2017						<0.005			
5/1/2017			<0.005	<0.005					
5/2/2017			0.000	0.000	<0.005	<0.005			
5/10/2017					-0.000	-0.000			0.0021 ( 1)
6/07/2017				<0.00E	<0.005				0.0021 (3)
0/27/2017			0.0005 (1)	<0.005	<0.005				
6/29/2017			0.0005 (J)						
//10/2017						<0.005			
7/11/2017									0.0014 (J)
10/11/2017	<0.005								
10/12/2017		<0.005					<0.005	0.0011 (J)	0.0017 (J)
11/20/2017	<0.005	<0.005					<0.005		
11/21/2017								0.0003 (J)	
1/10/2018		<0.005							
1/11/2018	<0.005							0.0003 (J)	
1/12/2018							<0.005		
2/19/2018		<0.005						<0.005	
2/20/2018	<0.005						<0.005		
3/29/2018			<0.005	<0.005	<0.005				
3/30/2018						<0.005			
4/3/2018	<0.005	<0.005					<0.005	<0.005	
4/4/2018									<0.005
6/6/2018				<0.005					
6/7/2018			0 00058 (.1)		<0.005				
6/12/2018			0.00000 (0)		0.000	<0.005			
6/27/2018						-0.003		0.00069.(1)	
6/28/2018	<0.00F	<0.00F					<0.00E	0.00003 (3)	
0/28/2018	<0.005	<0.005					<0.005	-0.005	
8/7/2018	<0.005	<0.005					<0.005	<0.005	6 6 6 6 <i>(</i> ))
9/20/2018									0.003 (J)
9/24/2018	<0.005	<0.005					<0.005	<0.005	
9/26/2018			<0.005	<0.005	<0.005				
9/27/2018						<0.005			
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019						<0.005			
4/3/2019			0.00083 (J)	<0.005	<0.005				
4/4/2019						<0.005			

#### Constituent: Cobalt (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
8/21/2019	0.00034 (J)	<0.005							
8/22/2019							<0.005	<0.005	0.0019 (J)
9/24/2019				<0.005	<0.005				
9/25/2019			<0.005						
9/27/2019						<0.005			
10/9/2019	<0.005	<0.005					<0.005	<0.005	0.0019 (J)
2/12/2020	0.00034 (J)	<0.005	<0.005	0.00037 (J)	<0.005				
3/24/2020		<0.005		0.00035 (J)	<0.005				
3/25/2020	0.00034 (J)		0.00056 (J)				<0.005	<0.005	0.0018 (J)
3/26/2020						<0.005			
9/22/2020			<0.005	<0.005	<0.005				
9/24/2020	0.00053 (J)	<0.005				<0.005			0.0017 (J)
9/25/2020							<0.005	<0.005	
2/8/2021				<0.005	<0.005				
2/9/2021			<0.005			<0.005	<0.005		
2/10/2021	0.00098 (J)	<0.005						<0.005	0.0019 (J)
3/2/2021				<0.005	<0.005				
3/3/2021			<0.005						
3/4/2021	0.00071 (J)	<0.005				<0.005	<0.005	<0.005	0.0018 (J)

Constituent: Cobalt (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (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					
6/1/2016				0.0027		<0.005	0 00082 (J)		
6/2/2016					<0.005	-0.000	0.00002 (0)		0.035
7/25/2016					40.000		0.0008 ( 1)		0.0312
7/26/2016					<0.005	<0.005	0.0000 (3)		0.0312
8/30/2016			0.0073 ( 1)		<0.005	<0.005			
8/30/2016	<0.005		0.0073 (3)	0.0052 ( 1)					
8/31/2010	<0.005	<0.005		0.0055 (5)					
9/1/2016		<0.005				<0.00F	0.0000 ( 1)		
9/13/2016						<0.005	0.0009 (J)	<0.00F	
9/14/2016					-0.005			<0.005	
9/15/2016					<0.005				0.0075
9/19/2016						-0.005			0.0275
11/1/2016					-0.005	<0.005			0.0255
11/2/2016					<0.005		0.0005 (1)		
11/4/2016			0.0115				0.0025 (J)	<0.005	
11/14/2016		0.0000 (1)	0.0115						
11/15/2016	0.005	0.0006 (J)							
11/16/2016	<0.005			<b></b>					
11/28/2016				0.0036 (J)					
12/15/2016								<0.005	
1/10/2017					<0.005				
1/11/2017						<0.005			
1/16/2017							0.0027 (J)	<0.005	0.0245
2/21/2017									0.0272
2/22/2017				0.0049 (J)					
2/24/2017	<0.005		0.0106						
2/27/2017		0.0008 (J)							
3/2/2017						<0.005	0.0022 (J)		
3/3/2017								<0.005	
3/8/2017					<0.005				
4/26/2017					<0.005				0.0244
4/27/2017						<0.005	0.0018 (J)		
4/28/2017								<0.005	
5/8/2017			0.0099 (J)	0.0059 (J)					

	YGWC-43	YGWC-49	YGWA-47 (ba)	GW/A-2 (bg)	YGWA-14S (bg)	YGWA-1D (ba)	YGWA-11 (ba)	YGWA-2L(ba)	YGWA-30L(bg)
5/9/2017	1010-45	<0.005	1 GWA-47 (bg)	GWA-2 (bg)	1 GWA-140 (bg)	TGWATE (bg)	rawk-n (bg)	1 GWA-21 (bg)	TGWA-SUI (bg)
5/10/2017	<0.005	-0.003							
5/26/2017	-0.000							<0.005	
6/27/2017						<0.005	0.0023(1)	40.000	
6/28/2017						-0.000	0.0023 (3)	<0.005	
6/30/2017					<0.005			<0.005	0 0233
3/30/2017	<0.00F		0.0006 ( 1)		<0.005				0.0233
7/11/2017	<0.005	0.0005 (1)	0.0096 (J)						
7/13/2017		0.0005 (J)		0.0040 (1)					
//1//201/				0.0046 (J)					
10/10/2017			0.0036 (J)						
10/11/2017		0.0006 (J)							
10/12/2017	0.0006 (J)								
10/16/2017				0.0034 (J)					
2/19/2018				<0.005					
3/27/2018					<0.005		<0.005		0.023
3/28/2018								<0.005	
3/29/2018						<0.005			
4/2/2018			<0.005						
4/4/2018	<0.005	<0.005							
6/5/2018						<0.005			
6/6/2018							<0.005		
6/7/2018								<0.005	
6/8/2018					<0.005				
6/11/2018									0.023
8/6/2018				0.003 (J)					
9/19/2018			0.0036 (J)						
9/20/2018	0.0034 (J)	<0.005							
10/1/2018					<0.005	<0.005	0.00059 (J)	<0.005	
10/2/2018									0.022
2/25/2019				0.001 (J)					
2/26/2019					<0.005				0.021
2/27/2019						<0.005	0.00064 (J)	<0.005	
3/28/2019						<0.005	0.00091 (J)		
3/29/2019					<0.005			<0.005	
4/1/2019									0.022
6/12/2019				0.003 (J)					
8/19/2019				0.0035 (J)					
8/20/2019			0.00092 (J)						
8/21/2019	0.0026 (J)								
9/24/2019						<0.005	0.0013 (J)	<0.005	
9/25/2019					<0.005				0.016
9/26/2019		<0.005							
10/8/2019			0.0014 (J)	0.0039 (J)					
10/9/2019	0.0023 (J)								
2/10/2020						<0.005	0.0016 (J)		
2/11/2020							x-7	<0.005	
2/12/2020					<0.005				0.014
3/17/2020			0.0017 (.1)	0.003 (J)					
3/18/2020			5.0017 (0)	5.000 (0)	<0.005		0.00087 (1)		
3/19/2020					0.000	<0.005	5.00007 (0)	<0.005	0.014
3/25/2020	0.0016 ( 1)	<0.005				.0.000		0.000	0.017
8/26/2020	0.0010(0)	-0.000		0.2 (0)					
JI L UI L U L U				V \ V /					

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
8/27/2020			0.0011 (J)						
9/22/2020			0.00097 (J)	0.16 (O)					
9/23/2020						<0.005	0.0013 (J)	<0.005	
9/24/2020		<0.005							0.0064
9/25/2020	0.0018 (J)				<0.005				
2/9/2021	0.0017 (J)	<0.005							
2/10/2021					<0.005			<0.005	
2/11/2021									0.0078
2/12/2021						0.00086 (J)	0.0028 (J)		
3/1/2021			0.001 (J)						0.0061
3/2/2021				0.21 (O)	<0.005				
3/3/2021						<0.005	0.003 (J)	<0.005	
3/4/2021	0.0015 (J)	<0.005							

Constituent: Cobalt (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		<0.005				
6/2/2016	<0.005					
6/8/2016					<0.005	
7/25/2016		<0.005				
7/26/2016	<0.005					
8/1/2016					<0.005	
9/2/2016						0.0006 (J)
9/14/2016		<0.005				
9/15/2016	<0.005					
9/20/2016					<0.005	
11/1/2016	<0.005	<0.005				
11/8/2016					<0.005	
11/14/2016						<0.005
1/11/2017	<0.005	<0.005				
1/17/2017					<0.005	
2/28/2017					0.000	<0.005
3/1/2017		<0.005				-0.000
3/1/2017	<0.005	-0.000				
3/2/2017	<0.003				<0.005	
3/8/2017	<0.00E	<0.005			<0.005	
4/20/2017	<0.005	<0.005			-0.005	
5/2/2017					<0.005	10.005
5/9/2017						<0.005
6/28/2017	<0.005	<0.005				
////201/					<0.005	
7/13/2017						<0.005
9/22/2017						<0.005
9/29/2017						<0.005
10/6/2017						<0.005
10/12/2017				0.0078 (J)		
11/21/2017				0.0097 (J)		
1/11/2018				0.0131		
2/20/2018				0.0162		
3/28/2018	<0.005	<0.005				
3/30/2018					<0.005	<0.005
4/3/2018				0.015		
6/7/2018	<0.005					
6/8/2018		<0.005				
6/12/2018					<0.005	
6/13/2018						<0.005
6/29/2018				0.013		
8/6/2018				0.0053 (J)		
9/24/2018				0.0071 (J)		
9/26/2018					<0.005	<0.005
10/1/2018	<0.005	<0.005				
10/16/2018			<0.005			
2/27/2019	<0.005	<0.005				
3/5/2019	-	-			<0.005	
3/6/2019						<0.005
4/1/2019	<0.005	<0.005				
4/4/2019	5.000	5.000			<0.005	<0.005
9/25/2019	<0.005	<0.005			5.000	
9/26/2019	5.000	5.000	<0.005		<0.005	0.00048 ( ))
3.20/2010			3.000		5.000	

Constituent: Cobalt (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
2/11/2020		<0.005				
2/12/2020	<0.005					
3/19/2020	<0.005	<0.005				
3/25/2020			0.0059			0.00038 (J)
3/26/2020					<0.005	
9/23/2020	<0.005	<0.005			<0.005	
9/24/2020			<0.005			
9/25/2020				0.0023 (J)		
10/7/2020						0.00086 (J)
2/9/2021				0.0023 (J)	<0.005	
2/10/2021	<0.005	<0.005	<0.005			0.00038 (J)
3/3/2021	<0.005	<0.005			<0.005	
3/4/2021			<0.005	0.003 (J)		<0.005

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/6/2021 8:36 PM

6/6/2016	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg) 0.0804 (U)	YGWA-18S (bg) 0.301 (U)	YGWA-20S (bg)	YGWA-21I (bg)
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)
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)
1/11/2017					0.34 (U)	0.365 (U)	0.502 (U)		
1/13/2017								0.296 (U)	0.72 (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)				
6/28/2017						0.892	0.636 (U)		
6/29/2017					0.576 (U)			1.12	0.841 (U)
3/28/2018					0.438 (U)	0.92 (U)	0.56 (U)		
3/29/2018								1.73	1.91
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)		
9/25/2018					0.68 (U)	0.141 (U)	0.574 (U)	0.772 (U)	1.62
10/16/2018	0.384 (U)								
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	
9/24/2019									1.35
9/25/2019					0.412 (U)			1.18 (U)	
9/26/2019						0.386 (U)	0.222 (U)		
2/11/2020					0.461 (U)	1.48	0.597 (U)		
2/12/2020								1.11 (U)	1.61
3/24/2020					0.534 (U)	0.632 (U)	0.262 (U)	1.88	1.24 (U)
3/25/2020	0.525 (U)								
9/23/2020		0.0813 (U)	1.2 (U)		0.466 (U)	0.887 (U)	0.43 (U)		
9/24/2020	0.547 (U)			0.668 (U)				0.611 (U)	1.8
2/9/2021	0.866 (U)	0.492 (U)	0.659 (U)	1.07 (U)	0.529 (U)	0.314 (U)	0.259 (U)	0.284 (U)	1.24
3/3/2021	0.377 (U)	0.563 (U)	1.07		0.59 (U)	0.565 (U)	0.352 (U)	0.133 (U)	1.2
3/4/2021				1.46					

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/6/2021 8:36 PM

						VGWC 235	VGWC 38	YOWC 41	XGWC 42
6/2/2016	1 GWA-35 (bg)	1 GWA-40 (bg)	0 721	5 11	0.614	1000-200	1000-58	1000-41	1600-42
6/7/2016			0.721	5.11	0.014	0 303 (11)			
7/26/2016			1.26	6.02	1 47	0.505 (0)			
7/20/2010			1.20	0.92	1.47	0.286 (11)			
7/28/2016						0.386 (0)			0.00
8/30/2016			0.001 (1)	0.00	1.07				2.99
9/14/2016			0.901 (U)	3.96	1.27				
9/20/2016						1.47			
11/2/2016			1.09 (U)	4.53					
11/4/2016					0.434 (U)				
11/8/2016						0.22 (U)			
11/16/2016									4.01
1/12/2017				4.43	0.202 (U)				
1/13/2017			1.19						
1/16/2017						0.147 (U)			
2/27/2017									2.5
3/6/2017			0.669 (U)						
3/7/2017				4.8	0.0674 (U)				
3/9/2017						0.0892 (U)			
5/1/2017			0.803 (U)	4.16					
5/2/2017					0.444 (U)	0.149 (U)			
5/10/2017									2.55
6/27/2017				2.8	0.77 (U)				
6/29/2017			1.35						
7/10/2017						0.815 (U)			
7/11/2017									3.94
10/11/2017	0.586 (U)								
10/12/2017		1.49					1.24	0.641 (U)	3.57
11/20/2017	0.816 (U)	0.918 (U)					0.342 (U)		
11/21/2017								2.01	
1/10/2018		1.05							
1/11/2018	0.841 (U)							0.919 (U)	
1/12/2018							1.04		
2/19/2018		2.05						1.82	
2/20/2018	1 58						16(1)		
3/29/2018			0 703 (U)	3 42	0.648 (U)				
3/30/2018			0.700 (0)	0.12	0.010(0)	0.659 (11)			
4/3/2018	0 385 (11)	0.68 (11)				0.000 (0)	0 726 (11)	0.911 (11)	
4/3/2018	0.000 (0)	0.00(0)					0.720(0)	0.511(0)	19
6/6/2018				3 00					1.5
6/7/2018			0 628 (11)	5.55	0.745 (11)				
6/12/2018			0.028(0)		0.745 (0)	1.02 (1)			
6/12/2018						1.03 (0)		0.400 (11)	
0/2//2018	0.000 (11)	1.00					1.00 (1))	0.429 (0)	
6/28/2018	0.283 (U)	1.28					1.06 (U)		
8/7/2018	0.332 (U)	1.16					1.21	0.579 (U)	
9/20/2018									1.94
9/24/2018	0.767 (U)	0.965 (U)					1.52	1.39	
9/26/2018			0.756 (U)	2.73	0.377 (U)				
9/27/2018						1.06 (U)			
3/4/2019			1.21 (U)	4.43	1 (U)				
3/6/2019						0.736 (U)			
4/3/2019			1.07 (U)	4.79	0.43 (U)				
4/4/2019						0.474 (U)			

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
8/21/2019	1.01 (U)	1.24 (U)							
8/22/2019							1.97	2.03	1.59
9/24/2019				4.06	0.699 (U)				
9/25/2019			1.86						
9/27/2019						0.684 (U)			
10/8/2019	1.02 (U)	0.866 (U)					0.751 (U)	0.609 (U)	0.995 (U)
2/12/2020	0.45 (U)	1.83	1.25	4.02	0.913 (U)				
3/24/2020		1.27 (U)		3.52					
3/25/2020	0.377 (U)		0.766 (U)				0.321 (U)	0.568 (U)	1.17 (U)
3/26/2020						0.281 (U)			
9/22/2020			0.795 (U)	2.98	0.428 (U)				
9/24/2020	0.568 (U)	0.634 (U)				0.788 (U)			0.751 (U)
9/25/2020							0.246 (U)	0.769 (U)	
2/8/2021				2.89	0.613 (U)				
2/9/2021			0.626 (U)			0.464 (U)	0.626 (U)		
2/10/2021	0.518 (U)	0.783 (U)						0.548 (U)	0.612 (U)
3/2/2021				1.67	0.579 (U)				
3/3/2021			1		. ,				
3/4/2021	0.636 (U)	0.818 (U)				0.771 (U)	0.816 (U)	1.23	1.02
	. /	. /				. /	. /		

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016						0.321 (U)	0.42		
6/2/2016					0.329 (U)				0.0652 (U)
7/25/2016							1.83		3.01
7/26/2016					1.51	0.707 (U)			
8/30/2016			1.09						
8/31/2016	0.926 (U)			1.2					
9/1/2016		1.2							
9/13/2016						1.22	0.841		
9/14/2016								0.98 (U)	
9/15/2016					1.04 (U)				
9/19/2016									0.871 (U)
11/1/2016						0.805 (U)			0.307 (U)
11/2/2016					0.496 (U)				
11/4/2016							0.166 (U)	0.277 (U)	
11/15/2016		0.645 (U)							
11/16/2016	0.773 (U)								
11/28/2016				0.264 (U)					
12/15/2016			1 (U)					0.071 (U)	
1/10/2017					0.376 (U)				
1/11/2017						0.705 (U)			
1/16/2017							0	0.44 (U)	0.284 (U)
2/21/2017									0.503 (U)
2/22/2017				1.06 (U)					
2/24/2017	0.661 (U)		0.504 (U)						
2/27/2017		0.244 (U)							
3/2/2017		( )				0.251 (U)	0.504 (U)		
3/3/2017						(-)		0.448 (U)	
3/8/2017					0.0745 (U)				
4/26/2017					0.282 (U)				0.204 (U)
4/27/2017					.,	1.08	0.593 (U)		
4/28/2017								0.548 (U)	
5/8/2017			0.455 (U)	0.187 (U)					
5/9/2017		0.519 (U)							
5/10/2017	1.27	( )							
5/26/2017								0 (U)	
6/27/2017						1.02 (U)	0.657 (U)		
6/28/2017								0.608 (U)	
6/30/2017					0.994				0.738 (U)
7/11/2017	1.02		0.471 (U)						
7/13/2017		0.5 (U)							
7/17/2017				1.42					
10/10/2017			0.649 (U)						
10/11/2017		1 41							
10/12/2017	1.58								
10/16/2017				1.17					
2/19/2018				1.58 (D)					
3/27/2018					0.189 (U)		0.39 (U)		0.31 (U)
3/28/2018					5		5.00 (0)	0.412 (11)	
3/29/2018						0.503 (U)		5	
4/2/2018			0.512(11)			2.000 (0)			
4/4/2018	1 71	0 442 (11)	5.612 (0)						
6/5/2018		0				0.771 (U)			
5.5.25.0						(3)			

#### Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/6/2021 8:36 PM

6/6/2018	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/0/2018							2.0	0.72 (11)	
6/8/2018					0.018 (11)			0.73(0)	
0/0/2018					0.218(0)				0.608 (11)
6/11/2018				0.100 (1))					0.608 (U)
8/6/2018			0.700 (1)	0.196 (U)					
9/19/2018			0.789(0)						
9/20/2018	2.8	1.14 (U)							
10/1/2018					1.24	0.783 (U)	1.06 (U)	0.756 (U)	
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)	
3/28/2019						1.13 (U)	0.125 (U)		
3/29/2019					0 (U)			0.224 (U)	
4/1/2019									1.02 (U)
8/19/2019				1.39					
8/20/2019			2.44						
8/21/2019	3.16								
9/24/2019						1.22 (U)	0.949 (U)	0.429 (U)	
9/25/2019					0.707 (U)				1.02 (U)
9/26/2019		1.16 (U)							
10/8/2019	3.65		1.72	1.32 (U)					
2/10/2020						1.41	1.25 (U)		
2/11/2020								0.817 (U)	
2/12/2020					1.07 (U)				0.301 (U)
3/17/2020			1.22 (U)	1 (U)					
3/18/2020					0.207 (U)		0.458 (U)		
3/19/2020						1.1		0.715 (U)	1
3/25/2020	3.04	1.2 (U)							
8/26/2020				1.75					
8/27/2020			1.26 (U)						
9/22/2020			1.06 (U)	0.688 (U)					
9/23/2020						1.35 (U)	0.00884 (U)	0.565 (U)	
9/24/2020		1.57 (U)				( )			0.684 (U)
9/25/2020	4.75	- (-)			0.603 (U)				
2/9/2021	6.38	0.137 (U)							
2/10/2021	0.00	0.107 (0)			0 353 (11)			1.04 (11)	
2/11/2021					5.000 (0)				0.678 (U)
2/12/2021						0.366 (U)	0 458 (U)		0.070 (0)
3/1/2021			12			5.000 (0)	3.400 (0)		0 / 12 (11)
3/2/2021			1.2	0.948 (11)	0.71 (U)				0.712 (0)
3/2/2021				0.340 (0)	0.71(0)	0.402.(11)	0 105 (11)	0.450 (11)	
3/3/2021	6.02	0 570 (11)				0.492 (U)	0.105 (U)	0.459 (U)	
J/4/2021	0.02	0.579 (U)							

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		0.896				
6/2/2016	2.51					
6/8/2016					1.06	
7/25/2016		2.28				
7/26/2016	3.82					
8/1/2016					0.467 (U)	
9/2/2016						0.873 (U)
9/14/2016		0.821 (U)				
9/15/2016	4.24					
9/20/2016					0.853 (U)	
9/22/2016						0.667 (U)
9/29/2016						1.63
10/6/2016						0.641 (U)
11/1/2016	3.92	0.585 (U)				
11/8/2016					0.433 (U)	
11/14/2016						0.0451 (U)
1/11/2017	2.52	1.22				
1/17/2017					0.0759 (U)	
2/28/2017						1.34 (U)
3/1/2017		0.877 (U)				
3/2/2017	3.13					
3/8/2017					0.479 (U)	
4/26/2017	2.35	0.672 (U)				
5/2/2017		(.)			0.506 (U)	
5/9/2017						0.309 (11)
6/28/2017	2.6	1.07(11)				0.000 (0)
7/7/2017	2.0	1.07 (0)			0 713 (11)	
7/13/2017					0.713(0)	0.618 (11)
10/12/2017				1 02		0.010 (0)
10/12/2017				1.03		
11/21/2017				1.33		
1/11/2018				1.55		
2/20/2018	0	0.05 (1)		2.75		
3/28/2018	3	0.65 (U)				
3/30/2018					0.409 (U)	0.721 (U)
4/3/2018				1.47		
6/7/2018	2.79					
6/8/2018		1.89				
6/12/2018					0.728 (U)	
6/13/2018						1.04 (U)
6/29/2018				1.69		
8/6/2018				1.69		
9/24/2018				2.26		
9/26/2018					0.981	0.604 (U)
10/1/2018	3.14	1.58				
10/16/2018			0.363 (U)			
2/27/2019	3.79	3.67				
3/5/2019					0.837 (U)	
3/6/2019						0.919 (U)
4/1/2019	4.33	2.28				
4/4/2019						1.05 (U)
4/9/2019					0.502 (U)	
9/25/2019	4.2	1.6			-	

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
9/26/2019					0.964 (U)	0.979 (U)
2/11/2020	3.87	1.85				
3/19/2020	3.96	2.2				
3/25/2020			0.197 (U)			1.22 (U)
3/26/2020					0.511 (U)	
9/23/2020	4.14	1.14 (U)			0.786 (U)	
9/24/2020			1.07 (U)			
9/25/2020				1.68 (U)		
10/7/2020						1.58
2/9/2021				1.52	0.678 (U)	
2/10/2021	3.65	2.46	0.546 (U)			0.466 (U)
3/3/2021	3.58	2.03			0.415 (U)	
3/4/2021			0.397 (U)	1.49		0.0671 (U)

Constituent: Fluoride (mg/L) Analysis Run 5/6/2021 8:36 PM

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (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)
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
1/11/2017					<0.1	<0.1	<0.1		
1/13/2017								<0.1	<0.1
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				
6/28/2017						<0.1	<0.1		
6/29/2017					<0.1			<0.1	<0.1
10/3/2017									<0.1
10/4/2017					<0.1		<0.1	<0.1	
10/5/2017						<0.1			
3/28/2018					<0.1	<0.1	<0.1		
3/29/2018								<0.1	<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		
9/25/2018					<0.1	<0.1	<0.1	<0.1	0 (J)
10/16/2018	<0.1								( )
3/5/2019					<0.1		<0.1	<0.1	0.32
3/6/2019						<0.1			
4/2/2019					<0.1				0.12 (J)
4/3/2019						<0.1	<0.1	<0.1	- (-)
9/24/2019									0.15 (J)
9/25/2019					<0.1			<0.1	
9/26/2019	<0.1					<0.1	<0.1		
2/11/2020					<0.1	<0.1	<0.1		
2/12/2020								<0.1	0.1 (J)
3/24/2020					<0.1	<0.1	<0.1	<0.1	0.081 (J)
3/25/2020	<0.1								
9/23/2020		<0.1	<0.1		<0.1	<0.1	<0.1		
9/24/2020	<0.1	0.1	5.1	<0 1	0.1	0.1	0.1	<0.1	0 079 (.1)
2/9/2021	<0.1	<0.1	0 14	<0.1		<0.1	<0.1	<0.1	0.092 (J)
3/3/2021	<0.1	<0.1	0.14		<0.1	<0.1	<0.1	<0.1	0.002 (0)
3/4/2021	0.1	·0.1	0.17	<0.1	·0.1	0.1	0.1	0.1	0.091 (1)
									0.001 (0)

Constituent: Fluoride (mg/L) Analysis Run 5/6/2021 8:36 PM

						2014/0 000		200000	NON10 10
	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.1	0.11 (J)	<0.1				
6/7/2016						<0.1			
7/26/2016			<0.1	0.05 (J)	<0.1				
7/28/2016						0.03 (J)			
8/30/2016									0.02 (J)
9/14/2016			<0.1	0.04 (J)	<0.1				
9/20/2016						<0.1			
11/2/2016			<0.1	<0.1					
11/4/2016					<0.1				
11/8/2016						<0.1			
11/16/2016									0.07 (J)
1/12/2017				0.04 (J)	<0.1				
1/13/2017			<0.1						
1/16/2017						<0.1			
2/27/2017									0.06 (J)
3/6/2017			<0.1						
3/7/2017				<0.1	<0.1				
3/9/2017						<0.1			
5/1/2017			<0.1	<0.1					
5/2/2017					<0.1	<0.1			
5/10/2017									<0.1
6/27/2017				<0.1	<0.1				0.1
6/29/2017			<0.1	-0.1	-0.1				
7/10/2017			<b>~0</b> .1			<0.1			
7/10/2017						<b>40.1</b>			-0.1
10/2/2017				-0.1	-0.1				SU.1
10/3/2017			-0.1	<0.1	<0.1				
10/5/2017			<0.1						
10/11/2017	<0.1					<0.1			. <i></i>
10/12/2017		<0.1					<0.1	<0.1	<0.1
11/20/2017	<0.1	<0.1					0.2 (J)		
11/21/2017								<0.1	
1/10/2018		<0.1							
1/11/2018	<0.1							<0.1	
1/12/2018							0.21 (J)		
2/19/2018		<0.1						<0.1	
2/20/2018	0.23						<0.1		
3/29/2018			<0.1	<0.1	<0.1				
3/30/2018						<0.1			
4/3/2018	<0.1	<0.1					0.41	<0.1	
4/4/2018									<0.1
6/6/2018				0.15 (J)					
6/7/2018			<0.1		<0.1				
6/12/2018						<0.1			
6/27/2018								<0.1	
6/28/2018	<0.1	<0.1					0.43		
8/7/2018	0.048 (J)	<0.1					<0.1	0.11 (J)	
9/20/2018	-								0.041 (J)
9/24/2018	<0.1	<0.1					0.034 (J)	<0.1	.,
9/26/2018			<0.1	<0.1	<0.1		x-7		
9/27/2018						<0.1			
3/4/2019			<0.1	0.19 (J)	<0.1	-			
3/6/2019						<0.1			

#### Constituent: Fluoride (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/26/2019		<0.1							
3/27/2019	<0.1						0.24 (J)		<0.1
3/28/2019								0.1 (J)	
4/3/2019			<0.1	0.047 (J)	<0.1				
4/4/2019						0.049 (J)			
8/21/2019	<0.1	<0.1							
8/22/2019							<0.1	<0.1	<0.1
9/24/2019				0.05 (J)	<0.1				
9/25/2019			<0.1						
9/27/2019						0.12 (J)			
10/9/2019	<0.1	<0.1					<0.1	<0.1	<0.1
2/12/2020	<0.1	<0.1	<0.1	<0.1	<0.1				
3/24/2020		<0.1		<0.1	<0.1				
3/25/2020	<0.1		<0.1				<0.1	<0.1	<0.1
3/26/2020						<0.1			
9/22/2020			<0.1	0.056 (J)	<0.1				
9/24/2020	<0.1	<0.1				<0.1			<0.1
9/25/2020							<0.1	<0.1	
2/8/2021				0.055 (J)	<0.1				
2/9/2021			<0.1			<0.1	<0.1		
2/10/2021	<0.1	<0.1						<0.1	<0.1
3/2/2021				<0.1	<0.1				
3/3/2021			<0.1						
3/4/2021	<0.1	<0.1				<0.1	<0.1	<0.1	<0.1

Constituent: Fluoride (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016						0.12 (J)	<0.1		
6/2/2016					<0.1				<0.1
7/25/2016							0.06 (J)		0.06 (J)
7/26/2016					0.02 (J)	0.08 (J)			
8/30/2016			0.09 (J)						
8/31/2016	0.12 (J)			0.14 (J)					
9/1/2016		0.09 (J)							
9/13/2016						0.11 (J)	<0.1		
9/14/2016								0.08 (J)	
9/15/2016					<0.1				
9/19/2016									<0.1
11/1/2016						<0.1			<0.1
11/2/2016					<0.1				
11/4/2016							<0.1	<0.1	
11/14/2016			0.18 (J)						
11/15/2016		0.16 (J)							
11/16/2016	0.2 (J)								
11/28/2016				0.12 (J)					
12/15/2016								0.06 (J)	
1/10/2017					<0.1				
1/11/2017						0.05 (J)			
1/16/2017							<0.1	0.1 (J)	<0.1
2/21/2017									<0.1
2/22/2017				0.09 (J)					
2/24/2017	0.21 (J)		0.05 (J)						
2/27/2017	( )	0.06 (J)							
3/2/2017						<0.1	<0.1		
3/3/2017								<0.1	
3/8/2017					<0.1				
4/26/2017					<0.1				<0.1
4/27/2017						0.04 (J)	0.01 (J)		
4/28/2017								0.06 (J)	
5/8/2017			0.03 (J)	0.05 (J)					
5/9/2017		0.05 (J)							
5/10/2017	0.04 (J)	0.00 (0)							
5/26/2017								0.09 (J)	
6/27/2017						<0.1	<0.1		
6/28/2017								0.11 (J)	
6/30/2017					<0.1				<0.1
7/11/2017	0.2 (J)		0.07 (J)		-				
7/13/2017	0.2 (0)	<0 1	0.07 (0)						
7/17/2017		0.1		0 14 (.1)					
10/3/2017				(-)		<0.1	<0.1	<0.1	
10/4/2017							0.1		<0.1
10/5/2017					<0 1				-0.1
10/10/2017			<0 1		-0.1				
10/11/2017		0 14 (1)	-0.1						
10/12/2017	01(1)	0.14(0)							
10/16/2017	0.1 (0)			0.12(1)					
2/10/2019				0.17					
3/27/2019				0.17	<0.1		<0.1		<0.1
3/28/2019					-U. I		1.01	0.31	-0.1
512012010								0.01	

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
3/29/2018						<0.1			
4/2/2018			<0.1						
4/4/2018	<0.1	<0.1							
6/5/2018						0.055 (J)			
6/6/2018							<0.1		
6/7/2018								0.11 (J)	
6/8/2018					<0.1				
6/11/2018									<0.1
8/6/2018				0.087 (J)					
9/19/2018			<0.1						
9/20/2018	<0.1	<0.1							
10/1/2018					<0.1	<0.1	<0.1	<0.1	
10/2/2018									<0.1
2/25/2019				0.14 (J)					
2/26/2019					<0.1				<0.1
2/27/2019						0.052 (J)	<0.1	0.12 (J)	
3/27/2019			0.081 (J)						
3/28/2019	0.078 (J)	<0.1				0.036 (J)	<0.1		
3/29/2019					<0.1			0.13 (J)	
4/1/2019									<0.1
6/12/2019				0.12 (J)					
8/19/2019				<0.1					
8/20/2019			<0.1						
8/21/2019	0.062 (J)								
9/24/2019						0.063 (J)	<0.1	0.081 (J)	
9/25/2019					<0.1				<0.1
9/26/2019		0.09 (J)							
10/8/2019			0.034 (J)	0.052 (J)					
10/9/2019	<0.1								
2/10/2020						0.061 (J)	<0.1		
2/11/2020								0.075 (J)	
2/12/2020					<0.1				<0.1
3/17/2020			<0.1	0.053 (J)					
3/18/2020					<0.1		<0.1		
3/19/2020						0.064 (J)		0.093 (J)	<0.1
3/25/2020	0.073 (J)	<0.1							
8/26/2020				0.068 (J)					
8/27/2020			<0.1						
9/22/2020			<0.1	0.058 (J)					
9/23/2020						0.058 (J)	<0.1	0.08 (J)	
9/24/2020		<0.1							<0.1
9/25/2020	<0.1				<0.1				
2/9/2021	0.058 (J)	<0.1							
2/10/2021					<0.1			0.094 (J)	
2/11/2021									<0.1
2/12/2021						0.068 (J)	<0.1		
3/1/2021			<0.1						<0.1
3/2/2021				0.073 (J)	<0.1				
3/3/2021						0.078 (J)	<0.1	0.085 (J)	
3/4/2021	0.063 (J)	<0.1							

Constituent: Fluoride (mg/L) Analysis Run 5/6/2021 8:36 PM

C/1/2010	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		0.15 (J)				
6/2/2016	0.62					
6/8/2016					<0.1	
7/25/2016		0.14 (J)				
7/26/2016	0.49					
8/1/2016					<0.1	
9/2/2016						0.05 (J)
9/14/2016		0.18 (J)				
9/15/2016	0.54					
9/20/2016					<0.1	
11/1/2016	0.68	<0.1				
11/8/2016					<0.1	0.40 / 10
11/14/2016						U.18 (J)
1/11/2017	0.49	0.09 (J)				
1/1//2017					<0.1	
2/28/2017						0.09 (J)
3/1/2017	0.40	<0.1				
3/2/2017	0.48					
3/8/2017	0.40	0.00 (1)			<0.1	
4/26/2017	0.48	0.08 (J)				
5/2/2017					<0.1	0.000 (1)
5/9/2017	0.47	0.40 (1)				0.009 (J)
6/28/2017	0.47	0.12 (J)				
7/7/2017					<0.1	.0.4
7/13/2017						
9/22/2017						0.09 (J)
9/29/2017	-0.1	-0.1				<b>~</b> 0.1
10/4/2017	-0.1	-0.1			<01	
10/5/2017					-0.1	<0.1
10/11/2017						<0.1
10/12/2017				<0.1		
11/21/2017				0.26 (.1)		
1/11/2018				<0.1		
2/20/2018				0.45		
3/28/2018	0.56	<0.1				
3/30/2018					<0.1	<0.1
4/3/2018				0.31		
6/7/2018	0.48					
6/8/2018		0.2 (J)				
6/12/2018					<0.1	
6/13/2018						<0.1
6/29/2018				<0.1		
8/6/2018				0.23 (J)		
9/24/2018				<0.1		
9/26/2018					<0.1	<0.1
10/1/2018	0.44	<0.1				
10/16/2018			<0.1			
2/27/2019	0.53	0.13 (J)				
3/5/2019					<0.1	
3/6/2019						<0.1
4/1/2019	0.45	0.1 (J)				

Constituent: Fluoride (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
4/4/2019					0.033 (J)	0.043 (J)
9/25/2019	0.46	0.1 (J)				
9/26/2019			<0.1		0.098 (J)	0.094 (J)
2/11/2020		0.094 (J)				
2/12/2020	0.4					
3/19/2020	0.51	0.11 (J)				
3/25/2020			<0.1			<0.1
3/26/2020					<0.1	
9/23/2020	0.47	0.098 (J)			<0.1	
9/24/2020			<0.1			
9/25/2020				<0.1		
10/7/2020						<0.1
2/9/2021				<0.1	<0.1	
2/10/2021	0.43	<0.1	<0.1			<0.1
3/3/2021	0.44	0.1			<0.1	
3/4/2021			<0.1	<0.1		<0.1

Constituent: Lead (mg/L) Analysis Run 5/6/2021 8:36 PM

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (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
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
1/11/2017					<0.001	<0.001	<0.001		
1/13/2017								<0.001	<0.001
3/1/2017						<0.001	<0.001		
3/2/2017					8E-05 (J)				
3/6/2017								<0.001	<0.001
4/26/2017						<0.001	<0.001	<0.001	<0.001
5/2/2017					<0.001				
6/28/2017						<0.001	0.0001 (J)		
6/29/2017					8E-05 (J)			<0.001	<0.001
3/28/2018					<0.001	<0.001	<0.001		
3/29/2018								<0.001	<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	
9/24/2019									<0.001
9/25/2019					<0.001			<0.001	
9/26/2019	<0.001					<0.001	<0.001		
2/11/2020					<0.001	<0.001	<0.001		
2/12/2020								<0.001	<0.001
3/24/2020					6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)	0.00011 (J)	<0.001
3/25/2020	<0.001								
9/23/2020		<0.001	0.00028 (J)		4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)		
9/24/2020	<0.001			0.00011 (J)				9.2E-05 (J)	4.6E-05 (J)
2/9/2021	0.00019 (J)	0.00011 (J)	0.00054 (J)	7.3E-05 (J)		5E-05 (J)	9.4E-05 (J)	6.3E-05 (J)	<0.001
3/3/2021	<0.001	8E-05 (J)	9.6E-05 (J)		<0.001	<0.001	7.6E-05 (J)	4.5E-05 (J)	
3/4/2021				4.1E-05 (J)					<0.001
Constituent: Lead (mg/L) Analysis Run 5/6/2021 8:36 PM

	VC/M(A 20 (ba)	VC)M(A 40 (ba)				XCWC 225	VCIMC 28	YOWC 41	YOWC 12
6/2/2016	rGWA-39 (bg)	YGWA-40 (bg)	rGWA-41 (bg)	FGVVA-5D (bg)	rGVVA-51 (bg)	rGWC-235	1900-38	rGvvC-41	rGWC-42
6/2/2016			<0.001	<0.001	<0.001	0.00044 (1)			
7/26/2016			<0.001	<0.001	<0.001	0.00044 (3)			
7/28/2016			\$0.001	-0.001	\$0.001	<0.001			
8/30/2016						-0.001			<0.001
9/14/2016			<0.001	<0.001	<0.001				<b>40.00</b> T
9/20/2016			-0.001	-0.001	-0.001	<0.001			
11/2/2016			<0.001	<0.001		-0.001			
11/2/2016			\$0.001	-0.001	<0.001				
11/8/2016					\$0.001	<0.001			
11/16/2016						-0.001			0 0002 (.1)
1/12/2017				<0.001	<0.001				0.0002 (0)
1/13/2017			<0.001	-0.001	\$0.001				
1/16/2017			-0.001			<0.001			
2/27/2017						\$0.001			<0.001
3/6/2017			<0.001						<b>40.00</b> T
3/7/2017			\$0.001	0.0001 (J)	7E-05 (J)				
3/9/2017				0.0001 (3)	72-00 (0)	<0.001			
5/3/2017			<0.001	<0.001		<0.001			
5/2/2017			-0.001	-0.001	<0.001	<0.001			
5/10/2017					\$0.001	\$0.001			9E-05 ( I)
6/27/2017				<0.001	<0.001				9E-03 (3)
6/20/2017			<0.001	-0.001	<0.001				
7/10/2017			-0.001			<0.001			
7/11/2017						\$0.001			<0.001
10/11/2017	0.0001 ( 1)								<b>~0.001</b>
10/12/2017	0.0001 (3)						0.0001 ( 1)	<0.001	<0.001
11/20/2017	<0.001	9E-03 (3) <0.001					0.0001 (J)	-0.001	<b>~0.001</b>
11/20/2017	<0.001	<0.001					0.0001 (3)	<0.001	
1/10/2019		<0.001						<0.001	
1/11/2018	0.0002 ( 1)	<0.001						75.05(1)	
1/12/2018	0.0002 (3)						0.0001 (1)	72-05 (3)	
1/12/2018		<0.001					0.0001 (J)	-0.001	
2/19/2018	<0.001	<0.001					-0.001	<0.001	
2/20/2018	<0.001		<0.001	<0.001	<0.001		<0.001		
3/29/2018			<0.001	<0.001	<0.001	-0.001			
3/30/2018	<0.001	<0.001				<0.001	-0.001	-0.001	
4/3/2018	<0.001	<0.001					<0.001	<0.001	<0.001
6/27/2018								0.0011 ( 1)	<b>~0.001</b>
6/29/2019	~0.001	<0.001					~0.001	0.0011(3)	
0/20/2010	<0.001	<0.001					<0.001	-0.001	
0/7/2018	<0.001	<0.001					<0.001	<0.001	<0.001
9/20/2018	~0.001	<0.001					~0.001	<0.001	<b>~0.001</b>
9/24/2010	<0.001	<0.001	-0.001	~0.001	<0.001		<0.001	<0.001	
3/4/2019			<0.001	<0.001	<0.001	<0.001			
4/3/2019			<0.001	<0.001	<0.001	<0.001			
4/3/2019			~0.00T	~0.00T	NU.001	<0.001			
4/4/2019 8/21/2010	<0.001	<0.001				<b>~0.001</b>			
8/22/2010	<u>~0.001</u>	~U.UUT					<0.001	6 7E 05 ( I)	<0.001
012212019				<0.001			~U.UU I	0.7⊑-03 (J)	<u>∼0.001</u>
912412019			<0.001	<b>~</b> 0.001	∃E-03 (J)				
912012019			<b>≺</b> 0.001			0.00012 ( !)			
9/2//2019						0.00013 (J)			

-										
		YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
	10/9/2019	<0.001	<0.001					<0.001	0.00012 (J)	<0.001
	2/12/2020	<0.001	<0.001	<0.001	<0.001	<0.001				
	3/24/2020		<0.001		5.4E-05 (J)	6.8E-05 (J)				
	3/25/2020	5.1E-05 (J)		<0.001				<0.001	<0.001	4.7E-05 (J)
	3/26/2020						<0.001			
	9/22/2020			<0.001	4.5E-05 (J)	4.2E-05 (J)				
	9/24/2020	<0.001	3.8E-05 (J)				4.6E-05 (J)			<0.001
	9/25/2020							<0.001	<0.001	
	2/8/2021				0.00013 (J)	3.7E-05 (J)				
	2/9/2021			<0.001			<0.001	<0.001		
	2/10/2021	<0.001	<0.001						0.0002 (J)	5.4E-05 (J)
	3/2/2021				5.1E-05 (J)	9.2E-05 (J)				
	3/3/2021			<0.001						
	3/4/2021	<0.001	<0.001				0.00021 (J)	<0.001	<0.001	<0.001

Constituent: Lead (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (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					
2/5/2014				<0.001					
3/3/2014				<0.001					
2/4/2015				<0.001					
8/3/2015				<0.001					
2/16/2016				<0.001		0.00050 (1)			
6/1/2016						0.00056 (J)	<0.001		
6/2/2016					<0.001				<0.001
7/25/2016							<0.001		<0.001
7/26/2016					<0.001	<0.001			
8/30/2016			<0.001						
8/31/2016	<0.001			<0.001					
9/1/2016		<0.001							
9/13/2016						0.0001 (J)	<0.001		
9/14/2016								<0.001	
9/15/2016					<0.001				
9/19/2016									<0.001
11/1/2016						<0.001			<0.001
11/2/2016					<0.001				
11/4/2016							<0.001	<0.001	
11/14/2016			<0.001						
11/15/2016		<0.001							
11/16/2016	<0.001								
11/28/2016				<0.001					
12/15/2016								<0.001	
1/10/2017					<0.001				
1/11/2017						<0.001			
1/16/2017							<0.001	<0.001	<0.001
2/21/2017									<0.001
2/22/2017				<0.001					
2/24/2017	<0.001		<0.001						
2/27/2017		<0.001							
3/2/2017						0 0001 (J)	<0.001		
3/3/2017						0.0001 (0)	0.001	<0.001	
3/8/2017					0.0001 ( 1)			0.001	
4/26/2017					<0.001				<0.001
4/27/2017					-0.001	<0.001	<0.001		-0.001
4/28/2017						NU.UU I	NU.UU I	<0.001	
4/20/2017			<0.001	~0.001				<b>\U.UU</b> I	
5/8/2017			<0.001	<0.001					

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
5/9/2017		<0.001							
5/10/2017	8E-05 (J)								
5/26/2017								<0.001	
6/27/2017						<0.001	<0.001		
6/28/2017								<0.001	
6/30/2017					<0.001				<0.001
7/11/2017	<0.001		<0.001						
7/13/2017		<0.001							
7/17/2017				<0.001					
10/10/2017			<0.001						
10/11/2017		<0.001							
10/12/2017	<0.001								
10/16/2017				<0.001					
2/19/2018				<0.001					
3/27/2018					<0.001		<0.001		<0.001
3/28/2018								<0.001	
3/29/2018						<0.001			
4/2/2018			<0.001						
4/4/2018	<0.001	<0.001							
8/6/2018				<0.001					
9/19/2018			<0.001						
9/20/2018	<0.001	<0.001							
2/25/2019				<0.001					
2/26/2019					<0.001				<0.001
2/27/2019						<0.001	<0.001	<0.001	
6/12/2019				<0.001					
8/19/2019				<0.001					
8/20/2019			<0.001						
8/21/2019	<0.001								
9/26/2019		<0.001							
10/8/2019				<0.001					
10/9/2019	<0.001								
2/10/2020						4.9E-05 (J)	<0.001		
2/11/2020								<0.001	
2/12/2020					<0.001				<0.001
3/17/2020				<0.001					
3/18/2020					<0.001		<0.001		
3/19/2020						0.00012 (J)	0.001	<0.001	<0.001
3/25/2020	7.5E-05 (J)	5 9E-05 (J)							
8/26/2020				<0.001					
8/27/2020			<0.001	0.001					
9/22/2020			<0.001	0 0001 (.1)					
9/23/2020			0.001	0.0001(0)		<0.001	0 00021 (.1)	0.0011 (J)	
9/24/2020		<0.001					0.00021(0)	0.0011(0)	<0.001
9/25/2020	<0.001	-0.001			<0.001				-0.001
2/9/2021	<0.001	<0.001			0.001				
2/10/2021	0.001	0.001			4 8E-05 (J)			0.00015 (J)	
2/11/2021					4.02 00 (0)			0.00010(0)	4 6E-05 (J)
2/12/2021						4.4E-05 (J)	0.00038 (.1)		
3/1/2021			<0.001				5.00000 (0)		<0.001
3/2/2021			0.001	<0.001	<0.001				
3/3/2021				0.001	-0.001	5.6E-05 (J)	<0.001	<0.001	
						2.02 00 (0)	0.001	0.001	

Constituent: Lead (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
3/4/2021	<0.001	<0.001							

#### Constituent: Lead (mg/L) Analysis Run 5/6/2021 8:36 PM

0/1/0010	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016	0.00050 ( ))	<0.001				
6/2/2016	0.00056 (J)				.0.001	
6/8/2016					<0.001	
7/25/2016	0.0001 (1)	<0.001				
7/26/2016	0.0001 (J)				-0.001	
8/1/2016					<0.001	0.0017 (1)
9/2/2010		<0.001				0.0017 (3)
9/14/2016	0.0002 ( 1)	<0.001				
9/20/2016	0.0002 (3)				<0.001	
11/1/2016	<0.001	<0.001			-0.001	
11/8/2016	-0.001	-0.001			<0.001	
11/14/2016					-0.001	0.0002 (J)
1/11/2017	<0.001	<0.001				
1/17/2017					<0.001	
2/28/2017						0.0003 (J)
3/1/2017		<0.001				
3/2/2017	0.0002 (J)					
3/8/2017					<0.001	
4/26/2017	<0.001	<0.001				
5/2/2017					<0.001	
5/9/2017						0.0004 (J)
6/28/2017	<0.001	<0.001				
7/7/2017					<0.001	
7/13/2017						0.0004 (J)
9/22/2017						0.0003 (J)
9/29/2017						0.0002 (J)
10/6/2017						0.0002 (J)
10/12/2017				0.0002 (J)		
11/21/2017				0.0002 (J)		
1/11/2018				0.0001 (J)		
2/20/2018				<0.001		
3/28/2018	<0.001	<0.001				
3/30/2018					<0.001	<0.001
4/3/2018				<0.001		
6/29/2018				<0.001		
8/6/2018				<0.001		
9/24/2018				<0.001		
2/27/2019	<0.001	<0.001				
3/5/2019					<0.001	
3/6/2019						<0.001
4/4/2019					<0.001	0.00037 (J)
9/26/2019			<0.001		<0.001	0.00023 (J)
2/11/2020	0.001	<0.001				
2/12/2020	<0.001					
3/19/2020	0.00017 (J)	<0.001	-0.001			0.0001 (1)
312312020			<0.001			U.UUUT (J)
312012020 9/23/2020	<0.001	0.00015 ( 1)			5.3E-05 (J) <0.001	
9/24/2020	-0.001	0.00013 (0)	<0.001		-0.001	
9/25/2020			-0.001	8 5E-05 ( I)		
10/7/2020				0.0L-00 (0)		0 00077 (J)

Constituent: Lead (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
2/9/2021				8.8E-05 (J)	0.00036 (J)	
2/10/2021	<0.001	<0.001	8.7E-05 (J)			0.00051 (J)
3/3/2021	<0.001	<0.001			<0.001	
3/4/2021			0.00015 (J)	<0.001		0.00025 (J)

Constituent: Lithium (mg/L) Analysis Run 5/6/2021 8:36 PM

6/6/2016	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg) 0.0088	YGWA-18S (bg) 0.015	YGWA-20S (bg)	YGWA-21I (bg)
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)
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
1/11/2017					0.0035 (J)	0.0052 (J)	0.0025 (J)		
1/13/2017								<0.03	0.0062 (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				
6/28/2017						0.0039 (J)	0.0016 (J)		
6/29/2017					<0.03			<0.03	0.0047 (J)
3/28/2018					<0.03	0.0041 (J)	0.0024 (J)		
3/29/2018								<0.03	0.0062 (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)		
9/25/2018					<0.03	0.0036 (J)	0.0016 (J)	<0.03	0.0062 (J)
10/16/2018	0.0052 (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	
9/24/2019									0.0068 (J)
9/25/2019					<0.03			<0.03	
9/26/2019	<0.03					0.0032 (J)	0.0029 (J)		
2/11/2020					<0.03	0.0033 (J)	0.005 (J)		
2/12/2020								<0.03	0.0065 (J)
3/24/2020					0.0034 (J)	0.0033 (J)	0.0035 (J)	<0.03	0.0064 (J)
3/25/2020	0.0011 (J)								
9/23/2020		<0.03	0.03 (J)		<0.03	0.003 (J)	0.0022 (J)		
9/24/2020	0.011 (J)			0.013 (J)				<0.03	0.0069 (J)
2/9/2021	0.021 (J)	<0.03	0.018 (J)	0.016 (J)		0.0031 (J)	0.0019 (J)	<0.03	0.006 (J)
3/3/2021	0.022 (J)	<0.03	0.02 (J)		<0.03	0.0034 (J)	0.0021 (J)	<0.03	
3/4/2021				0.016 (J)					0.0062 (J)

Constituent: Lithium (mg/L) Analysis Run 5/6/2021 8:36 PM

6/2/2016	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg) 0.013	YGWA-5D (bg) 0.0049 (J)	YGWA-5I (bg) <0.03	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/7/2016						<0.03			
7/26/2016			0.0123 (J)	0.0063 (J)	0.0027 (J)				
7/28/2016						0 0019 (.1)			
8/30/2016									0 0257 (.1)
9/14/2016			0 0137 (.1)	0 0058 (.1)	0 0029 (.1)				0.0207 (0)
9/20/2016			0.0107 (0)	0.0000 (0)	0.0020(0)	0.0021 (1)			
11/2/2016			0.0136 ( 1)	0.0053 ( 1)		0.0021(3)			
11/2/2016			0.0130 (3)	0.0033 (3)	<0.02				
11/4/2016					<0.03	0.0024 (1)			
11/16/2016						0.0024 (3)			0.0221 ( 1)
1/12/2017				0.0054(1)	0.0022 ( 1)				0.0221 (J)
1/12/2017			0.0121 (1)	0.0034 (3)	0.0032 (3)				
1/15/2017			0.0121 (3)			0.0000 (1)			
1/16/2017						0.0022 (J)			0.0000 ( 1)
2/2//2017			0.0140 (1)						0.0208 (J)
3/6/2017			0.0143 (J)	0.0050 (1)	0.0005 (1)				
3/7/2017				0.0056 (J)	0.0035 (J)	0.0005 (1)			
3/9/2017			<b>.</b>			0.0025 (J)			
5/1/2017			0.0132 (J)	0.0031 (J)					
5/2/2017					0.0031 (J)	0.0019 (J)			
5/10/2017									0.0316 (J)
6/27/2017				0.0018 (J)	0.0029 (J)				
6/29/2017			0.0145 (J)						
7/10/2017						0.0018 (J)			
7/11/2017									0.0281 (J)
10/11/2017	0.0018 (J)								
10/12/2017		<0.03					0.0095 (J)	0.004 (J)	0.0331 (J)
11/20/2017	0.0018 (J)	<0.03					0.0083 (J)		
11/21/2017								0.0043 (J)	
1/10/2018		<0.03							
1/11/2018	0.0019 (J)							0.0044 (J)	
1/12/2018							0.0089 (J)		
2/19/2018		<0.03						<0.03	
2/20/2018	<0.03						0.0082 (J)		
3/29/2018			0.014 (J)	0.0058 (J)	0.0034 (J)				
3/30/2018						0.0039 (J)			
4/3/2018	0.0022 (J)	<0.03					0.0097 (J)	0.0047 (J)	
4/4/2018									0.037 (J)
6/6/2018				0.0068 (J)					
6/7/2018			0.013 (J)		0.0032 (J)				
6/12/2018						0.0017 (J)			
6/27/2018								0.0042 (J)	
6/28/2018	0.0026 (J)	<0.03					0.0093 (J)		
8/7/2018	0.0024 (J)	<0.03					0.0092 (J)	0.0038 (J)	
9/20/2018									0.049 (J)
9/24/2018	0.0022 (J)	<0.03					0.0083 (J)	0.0037 (J)	
9/26/2018			0.014 (J)	0.0065 (J)	0.0032 (J)				
9/27/2018						0.0017 (J)			
3/4/2019			0.015 (J)	0.0065 (J)	0.0032 (J)				
3/6/2019						0.0025 (J)			
4/3/2019			0.014 (J)	0.007 (J)	0.0035 (J)				
4/4/2019			. /	. /		0.0018 (J)			

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
8/21/2019	0.0035 (J)	<0.03							
8/22/2019							0.0082 (J)	0.0035 (J)	0.047
9/24/2019				0.0065 (J)	0.0031 (J)				
9/25/2019			0.014 (J)						
9/27/2019						0.0017 (J)			
10/9/2019	0.0036 (J)	<0.03					0.0081 (J)	0.0032 (J)	0.037
2/12/2020	0.0041 (J)	<0.03	0.011 (J)	0.0066 (J)	0.0032 (J)				
3/24/2020		<0.03		0.0064 (J)	0.0033 (J)				
3/25/2020	0.0049 (J)		0.014 (J)				0.0081 (J)	0.0029 (J)	0.045
3/26/2020						0.0021 (J)			
9/22/2020			0.013 (J)	0.0066 (J)	0.0034 (J)				
9/24/2020	0.0054 (J)	<0.03				0.0035 (J)			0.05
9/25/2020							0.0069 (J)	0.0025 (J)	
2/8/2021				0.0063 (J)	0.0032 (J)				
2/9/2021			0.011 (J)			0.0026 (J)	0.0067 (J)		
2/10/2021	0.0071 (J)	<0.03						0.0021 (J)	0.058
3/2/2021				0.0018 (J)	0.0031 (J)				
3/3/2021			0.012 (J)						
3/4/2021	0.0084 (J)	<0.03				0.0026 (J)	0.0067 (J)	0.0021 (J)	0.059

Constituent: Lithium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016						0.015	<0.03		
6/2/2016					<0.03				<0.03
7/25/2016							0.002 (J)		<0.03
7/26/2016					<0.03	0.0135 (J)			
8/30/2016			0.0061 (J)						
8/31/2016	0.006 (J)			<0.03					
9/1/2016		0.0034 (J)							
9/13/2016						0.0112 (J)	<0.03		
9/14/2016								0.004 (J)	
9/15/2016					<0.03				
9/19/2016									<0.03
11/1/2016						0.0163 (J)			<0.03
11/2/2016					<0.03				
11/4/2016							<0.03	<0.03	
11/14/2016			0.0064 (J)						
11/15/2016		0.0044 (J)	(-)						
11/16/2016	0.0095 (J)								
11/28/2016				<0.03					
12/15/2016				-0.00				0.0026(1)	
1/10/2017					<0.03			0.0020(3)	
1/11/2017					-0.05	0.0166 ( 1)			
1/16/2017						0.0100 (3)	0.0022 ( 1)	0.0022 ( 1)	~0.02
1/10/2017							0.0023 (J)	0.0023 (3)	<0.03
2/21/2017				-0.00					<0.03
2/22/2017	0.0104 (1)		0.0040 (1)	<0.03					
2/24/2017	0.0104 (J)	0.0000 (1)	0.0049 (J)						
2/2//201/		0.0036 (J)				0.0450 (1)	0.0005 (1)		
3/2/2017						0.0159 (J)	0.0025 (J)		
3/3/2017								0.0013 (J)	
3/8/2017					<0.03				
4/26/2017					<0.03				<0.03
4/27/2017						0.0137 (J)	0.0027 (J)		
4/28/2017								0.0031 (J)	
5/8/2017			0.0053 (J)	0.0014 (J)					
5/9/2017		0.0038 (J)							
5/10/2017	0.0123 (J)								
5/26/2017								0.0038 (J)	
6/27/2017						0.0094 (J)	0.0024 (J)		
6/28/2017								0.0026 (J)	
6/30/2017					<0.03				<0.03
7/11/2017	0.0131 (J)		0.0051 (J)						
7/13/2017		0.0036 (J)							
7/17/2017				<0.03					
10/10/2017			0.0043 (J)						
10/11/2017		0.0036 (J)							
10/12/2017	0.013 (J)								
10/16/2017				0.0016 (J)					
2/19/2018				<0.03					
3/27/2018					<0.03		0.0023 (J)		0.0011 (J)
3/28/2018								0.0025 (J)	
3/29/2018						0.0078 (J)			
4/2/2018			0.0045 (J)						
4/4/2018	0.016 (J)	0.0039 (J)							

#### Constituent: Lithium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/5/2018						0.0079 (J)			
6/6/2018							0.0024 (J)		
6/7/2018								0.0017 (J)	
6/8/2018					<0.03				
6/11/2018									0.0012 (J)
8/6/2018				<0.03					
9/19/2018			0.0043 (J)						
9/20/2018	0.019 (J)	0.0036 (J)							
10/1/2018					<0.03	0.0053 (J)	0.0023 (J)	<0.03	
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)	
3/28/2019						0.013 (J)	0.0022 (J)		
3/29/2019					<0.03			0.0016 (J)	
4/1/2019									0.001 (J)
8/19/2019				0.0019 (J)					
8/20/2019			0.0036 (J)						
8/21/2019	0.015 (J)								
9/24/2019						0.0046 (J)	0.0023 (J)	0.0011 (J)	
9/25/2019					<0.03				0.0011 (J)
9/26/2019		0.0036 (J)							
10/8/2019			0.0036 (J)	0.0015 (J)					
10/9/2019	0.018 (J)								
2/10/2020						0.011 (J)	0.0023 (J)		
2/11/2020								0.0012 (J)	
2/12/2020					<0.03				0.0013 (J)
3/17/2020			0.0046 (J)	0.0017 (J)					
3/18/2020					<0.03		0.0024 (J)		
3/19/2020						0.013 (J)		0.0022 (J)	0.0012 (J)
3/25/2020	0.016 (J)	0.0037 (J)							
8/26/2020				0.0032 (J)					
8/27/2020			0.0039 (J)						
9/22/2020			0.0036 (J)	0.0029 (J)					
9/23/2020						0.014 (J)	0.0024 (J)	0.0016 (J)	
9/24/2020		0.0037 (J)							0.0011 (J)
9/25/2020	0.018 (J)				<0.03				
2/9/2021	0.024 (J)	0.0038 (J)							
2/10/2021					<0.03			0.0039 (J)	
2/11/2021									0.0012 (J)
2/12/2021						0.01 (J)	0.0025 (J)		
3/1/2021			0.0037 (J)						0.0011 (J)
3/2/2021				0.0033 (J)	<0.03				
3/3/2021						0.012 (J)	0.0025 (J)	0.0016 (J)	
3/4/2021	0.025 (J)	0.0035 (J)							

Constituent: Lithium (mg/L) Analysis Run 5/6/2021 8:36 PM

<table-container>NumberNumberNumberNumberNumberNumberNumber2001IIIII2001IIIII2001IIIII2001IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</table-container>							
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<form>dotationunit of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon</form>	6/1/2016		0.01				
<form>BacherUUUUSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVVVSameVVV</form>	6/2/2016	0.018					
<form>NAME NAMENAME NAMENAME NAMENAME NAMENAME NAMENAME NAMENAME NAMENAME NAMENAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME NAME<br <="" td=""/><td>6/8/2016</td><td></td><td></td><td></td><td></td><td>&lt;0.03</td><td></td></form>	6/8/2016					<0.03	
<table-container>NameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNameNam</table-container>	7/25/2016		0.0132 (J)				
<table-container>inversioninversioninversioninversionStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusStatusS</table-container>	7/26/2016	0.0221 (J)					
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<table-container>indexindexindexindex11020019(1)019(1)019(1)019(1)11020019(1)019(1)019(1)019(1)11020019(1)019(1)019(1)019(1)12020019(1)019(1)019(1)019(1)12020019(1)019(1)019(1)019(1)12020019(1)019(1)019(1)019(1)12020019(1)019(1)019(1)019(1)12020019(1)019(1)019(1)019(1)12020019(1)019(1)019(1)019(1)12020019(1)019(1)019(1)019(1)12020019(1)019(1)019(1)019(1)12020019(1)019(1)019(1)019(1)12020019(1)019(1)019(1)019(1)12020019(1)019(1)019(1)019(1)12020019(1)019(1)019(1)019(1)12020019(1)019(1)019(1)019(1)12020019(1)019(1)019(1)019(1)12020019(1)019(1)019(1)019(1)12020019(1)019(1)019(1)019(1)12020019(1)019(1)019(1)019(1)12020019(1)019(1)019(1)019(1)12020019(1)019(1)019(1)019(1)12020019(1)019(1)019(1)019(1)12020019(1)019(1)019(1)</table-container>	9/14/2016		0.012 (J)				
<form>NAMEUUUU11442UU0011443UU00011444UU00011447UU00011447UUU0011447UUU0011447UUU011447UUUU011447UUUU011447UUUUU11447UUUUU11447UUUUU11447UUUUU11447UUUUU11447UUUUU11447UUUUU11447UUUUU11447UUUUU11447UUUUU11447UUUUU11447UUUUU11447UUUUU11447UUUUU11447UUUUU11447UUUUU11447UUUUU11447UUUUU11447U&lt;</form>	9/15/2016	0.0197 (J)					
<table-container>1111011211342114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141211412114121141&lt;</table-container>	9/20/2016					<0.03	
<form>11420001142000114200011420001142000114200011420001142000114200011420001142000114200011420001142000114200011420001142000114200011420001142000114200011420001142000114200011420001142000114200011420001142000114200011420001142000114200011420001142000114200011420001142000114200011420001142000114200011420000114200011420001142000114200001142000011420000114200001142000011420000114200001142000011420000114200001142000011420000114200001142000011420000114200001142000011420000114200001142000011420000114200001142000011420000114200001142000011420000114200001142000011420000114200001142000011420000114200001142000011420000114200001142000001142000011420000114200001142000011420000114200001142000011420000114200001142000011420000114200001142000011420000114200001142000011420000114200001142000011420000114200001142000011420000114200000114200001142000011420000</form>	11/1/2016	0.0194 (J)	0.0115 (J)				
<form>1112010UUUU1112017UUUU228017UUUU228017UUUU230108UUUU230217UUUU230217UUUU230218UUUU230217UUUU230218UUUU230217UUUU230218UUUU230219UUUU230219UUUU230219UUUU230219UUUU230219UUUU230219UUUU230219UUUU230219UUUU230219UUUU230219UUUU230219UUUU230219UUUU230219UUUU230219UUUU230219UUUU230219UUUU230219UUUU230219UUUU230219UUUU230219UUU<t< td=""><td>11/8/2016</td><td></td><td></td><td></td><td></td><td>&lt;0.03</td><td></td></t<></form>	11/8/2016					<0.03	
	11/14/2016						0.0044 (J)
Intractdoal222/2100.014 (J0.038 (J)322/2100.014 (J0.028 (J)322/2100.092 (J0.028 (J)42/201700.092 (J0.028 (J)32/201700.092 (J0.005 (J)62/201700.005 (J)0.005 (J)62/201700.005 (J)0.007 (J)71/20170.007 (J)71/20170.007 (J)71/20170.005 (J)71/20170.005 (J)71/20170.005 (J)71/20170.005 (J)71/20170.005 (J)71/20170.005 (J)71/20170.005 (J)71/20170.005 (J)71/20170.005 (J)71/20170.005 (J)71/20170.005 (J)71/20170.005 (J)71/20170.005 (J)71/20170.005 (J)71/20170.005 (J)71/20170.005 (J)71/20170.005 (J)71/20170.005 (J)71/20170.005 (J)71/20170.005 (J)71/20170.005 (J)71/20170.005 (J) <td>1/11/2017</td> <td>0.0177 (J)</td> <td>0.0085 (J)</td> <td></td> <td></td> <td></td> <td></td>	1/11/2017	0.0177 (J)	0.0085 (J)				
<form>202070.083302070.084302070.084302070.084302070.092302070.092302070.092302070.092302070.092302070.092302070.095302070.095302070.095302070.095302070.095302070.095302070.095302070.095302070.095302070.095302070.095302070.095302070.095302070.095302070.095302070.095302080.095302080.095302090.095302090.095302090.095302090.095302090.095302090.095302090.095302090.095302090.095302090.095302090.095302090.095302090.095302090.095302090.095302090.095302090.095302090.095302090.095302090.095302090.095302090.095302090.095302090.095302090.095302090.095302090.095<t< td=""><td>1/17/2017</td><td>( )</td><td>( )</td><td></td><td></td><td>&lt;0.03</td><td></td></t<></form>	1/17/2017	( )	( )			<0.03	
NameNameName3202170.1014 ()0.002 ()0.013 ()4260170.013 ()0.002 ()0.005 ()522170.013 ()0.002 ()0.005 ()522170.013 ()0.005 ()0.005 ()522170.013 ()0.005 ()0.005 ()522170.013 ()0.005 ()0.005 ()522170.013 ()0.005 ()0.005 ()522170.013 ()0.005 ()0.005 ()522170.014 ()0.005 ()0.005 ()522170.014 ()0.005 ()0.005 ()522170.014 ()0.005 ()0.005 ()522170.014 ()0.027 ()0.005 ()10/20170.013 ()0.027 ()0.005 ()10/20180.013 ()0.027 ()0.005 ()10/20180.013 ()0.027 ()0.005 ()10/20180.013 ()0.027 ()0.005 ()10/20180.027 ()0.027 ()0.005 ()10/20180.013 ()0.027 ()0.005 ()10/20180.027 ()0.037 ()0.005 ()10/20180.027 ()0.037 ()0.005 ()10/20180.013 ()0.005 ()0.005 ()10/20180.027 ()0.037 ()0.005 ()10/20180.013 ()0.005 ()0.005 ()10/20180.013 ()0.005 ()0.005 ()10/20180.014 ()0.005 ()0.005 ()10/20180.014 ()0.014 ()0.014 ()10/20180.014 () </td <td>2/28/2017</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.0038 (J)</td>	2/28/2017						0.0038 (J)
NoteNote380010082 (J3800170.082 (J)5020170.083 (J)5020170.083 (J)5020170.083 (J)5020170.085 (J)5020170.085 (J)7020170.085 (J)7020170.085 (J)7020170.083 (J)5020170.085 (J)5020170.085 (J)7020170.085 (J)5020170.085 (J)5020170.087 (J)5020170.087 (J)5020170.087 (J)5020170.087 (J)5020170.087 (J)5020170.087 (J)5020170.087 (J)5020170.087 (J)5020170.087 (J)5020180.081 (J)5020190.013 (J)5020190.013 (J)5020190.027 (J)5020190.027 (J)5020190.027 (J)5020190.013 (J)5020190.027 (J)5020190.027 (J)5020190.027 (J)5020190.027 (J)5020190.027 (J)5020190.027 (J)5020190.027 (J)5020190.027 (J)5020190.027 (J)5020190.027 (J)5020190.027 (J)5020190.027 (J)5020190.027 (J)5020190.027 (J)5020190.026 (J)5020190.026 (J)5020190.026 (J)5020190.026 (J	3/1/2017		0.0114 (J)				
4282017U0.0052(J)520217U0.0057(J)520217U0.005(J)520217U0.005(J)772017U0.005(J)772017UU722017UU722017UU722017UU722017UU722017UU722017UU722017UU722017UU722017UU722017UU722017UU722017UU722017UU722017UU722018UU722019UU722019UU722019UU722019UU722019UU722019UU722019UU722019UU722019UU722019UU722019UU722019UU722019UU722019UU722019UU722019UU722019UU722019UU722019UU722019UU722019UU722019UU722019UU <td>3/2/2017</td> <td>0 0185 (.1)</td> <td></td> <td></td> <td></td> <td></td> <td></td>	3/2/2017	0 0185 (.1)					
	3/8/2017					<0.03	
322017 $ $	4/26/2017	0 0183 (.1)	0 0092 (.1)			-0.00	
JackerJacker56/2170.073 (r)0.085 (r)62/22070.073 (r)0.085 (r)71/20170.085 (r)0.007 (r)92/20170.010.007 (r)92/20170.010.005 (r)10/20170.0271 (r)0.0271 (r)11/12/0180.0271 (r)0.0271 (r)11/12/0180.01 (r)22/20180.0271 (r)0.0271 (r)11/12/0180.01 (r)0.0271 (r)22/20180.0271 (r)0.0271 (r)22/20180.0271 (r)0.0271 (r)22/20180.0271 (r)0.0271 (r)22/20180.0271 (r)0.0271 (r)22/20180.0271 (r)0.005 (r)22/20180.0271 (r)0.005 (r)22/20180.0271 (r)0.005 (r)22/20180.027 (r)0.027 (r)42/20180.02 (r)0.027 (r)62/20180.02 (r)0.005 (r)62/20180.02 (r)0.005 (r)62/20180.02 (r)0.005 (r)62/20180.02 (r)0.005 (r)62/20180.02 (r)0.005 (r)62/20180.02 (r)0.005 (r)62/20180.02 (r)0.005 (r)62/20180.02 (r)0.005 (r)62/20180.02 (r)0.005 (r)62/20180.02 (r)0.005 (r)62/20180.02 (r)0.005 (r)62/20180.02 (r)0.005 (r)62/20180.02 (r)0.005 (r)62/20180.02 (r)0.005 (r) <td< td=""><td>5/2/2017</td><td>0.0100(0)</td><td>0.0002 (0)</td><td></td><td></td><td>&lt;0.03</td><td></td></td<>	5/2/2017	0.0100(0)	0.0002 (0)			<0.03	
628017       0173(0)       0005()         7172017       -       -         7172017       -       -         7172017       -       -         922017       -       -         922017       -       -         922017       -       -         922017       -       -         922017       -       -         1012017       -       -         10122017       -       -         10122017       -       -         10122018       -       -         10122019       -       -         10122017       -       -         10122018       -       -         10122018       -       -         1022018       -       -         102019       -       -         102019       -       -         102010       -       -         102101       -       -         1022018       -       -         1022018       -       -         1022019       -       -         1022019       -       -         1022019       -	5/9/2017					-0.00	0 0057 (  )
Jacade 1       Lord 0         7/2017       -         7/2017       -         9222017       -         9222017       -         9222017       -         922017       -         1012017       -         10122017       -         10122017       -         10122017       -         10122017       -         10122018       -         10122017       -         10122018       -         202018       -         202019       -         202010       -         202011       -         202012       -         202013       -         202014       -         202015       -         202016       -         202017       -         202018       -         202019       -         202010       -         202011       -         202012       -         202013       -         202014       -         202015       -         202016       -         202017	6/28/2017	0.0173 ( 1)	0.0085 (1)				0.0007 (0)
7.132017	7/2017	0.0175 (3)	0.0003 (3)			<0.03	
JUSACI	7/12/2017					<0.05	0.007 / 1)
3422017     U     0.006/0       10/2017     U     0.006/0       11/21/2017     0.0271/0/U     0.006/0       11/21/2017     0.0271/0/U     0.2071/0/U       2202018     U     0.0271/0/U       2202018     U     0.0271/0/U       2202018     U     0.0271/0/U       2202018     U     0.0271/0/U       2202018     U     0.03       43/2018     U     0.027/0/U       43/2018     U     0.027/0/U       43/2018     U     0.027/0/U       43/2018     U     0.027/0/U       43/2018     U     0.027/0/U       43/2018     U     0.027/0/U       43/2018     U     0.027/0/U       43/2018     U     0.027/0/U       61/2018     0.01/0/U     U       61/2018     U     0.027/0/U       61/2018     U     0.021/U       61/2018     U     0.021/U       61/2018     U     0.021/U       61/2018     U     0.032/U       61/2018     U     0.021/U       92/2018     U     0.011/U       92/2018     U     0.011/U       92/2018     U     0.021/U       92/2019     U	//13/2017						0.007 (3)
3/28/2011       Unit (0006 (n)         10/22017       Unit (0006 (n)         11/21/2017       Unit (0007 (n))         11/21/2017       Unit (0007 (n))         11/21/2017       Unit (0007 (n))         11/21/2017       Unit (0007 (n))         11/21/2017       Unit (0007 (n))         11/21/2017       Unit (0007 (n))         11/21/2017       Unit (0007 (n))         11/21/2017       Unit (0007 (n))         11/21/2017       Unit (0007 (n))         11/21/2017       Unit (0007 (n))         11/21/2017       Unit (0007 (n))         11/21/2017       Unit (0007 (n))         11/21/2017       Unit (0007 (n))         11/21/2017       Unit (0007 (n))         11/21/2017       Unit (0007 (n))         11/21/2017       Unit (0007 (n))         11/21/2017       Unit (0007 (n))         11/21/2017       Unit (0007 (n))         11/21/2017       Unit (0007 (n))         11/21/2017       Unit (0007 (n))         11/21/2017       Unit (0007 (n))         11/21/2017       Unit (0007 (n))         11/21/2017       Unit (0007 (n))         11/21/2017       Unit (0007 (n))         11/21/2017       Unit (0007 (n)) <td>9/22/2017</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.0067 (3)</td>	9/22/2017						0.0067 (3)
10/2207       0.271 (u)         11/12018       0.227 (u)         11/12018       0.227 (u)         2202018       0.03 (u)         2202018       0.03 (u)         23282018       0.03 (u)         302018       0.03 (u)         432018       0.02 (u)         432018       0.02 (u)         432018       0.02 (u)         67/2018       0.02 (u)         67/2018       0.02 (u)         67/2018       0.01 (u)         67/2018       0.02 (u)         67/2018       0.02 (u)         67/2018       0.02 (u)         67/2018       0.01 (u)         67/2018       0.02 (u)         67/2018       0.02 (u)         67/2018       0.01 (u)         67/2018       0.01 (u)         67/2018       0.01 (u)         67/2018       0.01 (u)         70/2018       0.01 (u)         70/2019       0.01 (u)         70/2019       0.01 (u)         70/2019       0.01 (u)         70/2019       0.01 (u)         70/2019       0.01 (u)         70/2019       0.01 (u)         70/2019       0.01 (u) </td <td>9/29/2017</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.0004 (J)</td>	9/29/2017						0.0004 (J)
101/2017     002/1(i)       11/21/2017     002/1(i)       2202018     0.02/1(i)       2202018     0.03/0       3030201     0.01/0       3030201     0.02/1(i)       4/3/218     0.02/1(i)       4/3/218     0.02/1(i)       6/7/2018     0.02/1(i)       6/7/2018     0.02/1(i)       6/7/2018     0.02/1(i)       6/7/2018     0.02/1(i)       6/7/2018     0.02/1(i)       6/7/2018     0.01/1(i)       6/7/2018     0.01/2(i)       6/7/2018     0.01/1(i)       6/7/2018     0.01/1(i)       6/7/2018     0.02/1(i)       6/7/2018     0.01/1(i)       6/7/2018     0.01/1(i)       6/7/2018     0.01/1(i)       6/7/2018     0.01/1(i)       6/7/2018     0.01/1(i)       6/7/2018     0.01/1(i)       10/1/2018     0.01/1(i)       10/1/2018     0.01/1(i)       10/1/2018     0.01/1(i)       10/1/2018     0.01/1(i)       10/1/2018     0.01/1(i)       10/1/2018     0.01/1(i)       10/1/2018     0.01/1(i)       10/1/2018     0.01/1(i)       10/1/2018     0.01/1(i)       10/1/2018     0.01/1(i)	10/6/2017				0.0074 (1)		0.0065 (J)
11/21/2017     0.025 (J)       11/12018     0.0271 (J)       2202018     0.013 (J)       3/302018     0.013 (J)       3/302018     0.013 (J)       3/302018     0.02 (J)       3/302018     0.02 (J)       3/302018     0.02 (J)       6/72018     0.012 (J)       6/82018     0.012 (J)       6/82018     0.012 (J)       6/82018     0.012 (J)       6/82018     0.012 (J)       6/82018     0.011 (J)       9/242018     0.011 (J)       9/242018     0.011 (J)       9/242018     0.011 (J)       9/242018     0.011 (J)       9/242018     0.011 (J)       9/242018     0.011 (J)       9/242018     0.011 (J)       9/242018     0.011 (J)       9/242018     0.011 (J)       9/242018     0.011 (J)       9/242018     0.011 (J)       9/242018     0.011 (J)       9/242018     0.011 (J)       9/242018     0.011 (J)       9/242018     0.011 (J)       9/242018     0.011 (J)       9/242018     0.011 (J)       9/242018     0.011 (J)       9/242018     0.011 (J)       9/242018     0.011 (J)	10/12/2017				0.0271 (J)		
111/2018     0.027 (J)       2202018        23282018     0.03 (J)       3302018        3302018        43/2018        63/2018        63/2018        61/2018        61/2018        61/2018        61/2018        61/2018        61/2018        61/2018        61/2018        61/2018        61/2018        61/2018        61/2018        61/2018        61/2018        61/2018        61/2018        61/2018        61/2018        61/2018        61/2018        61/2018        61/2018        61/2018        61/2018        61/2018        61/2018        61/2018        61/2019        61/2019        61/2019        61/2019        61/2019        61/2019 <td>11/21/2017</td> <td></td> <td></td> <td></td> <td>0.0255 (J)</td> <td></td> <td></td>	11/21/2017				0.0255 (J)		
220201	1/11/2018				0.0271 (J)		
3282018       0.02 (J)       0.013 (J)         332018       · · · · · · · · · · · · · · · · · · ·	2/20/2018				<0.03		
330218 $0.027$ (J) $4'32018$ $0.027$ (J) $6'72018$ $0.02$ (J) $6'72018$ $0.12$ (J) $6'122018$ $0.12$ (J) $6'122018$ $0.12$ (J) $6'122018$ $0.12$ (J) $6'122018$ $0.12$ (J) $6'122018$ $0.012$ (J) $6'122018$ $0.012$ (J) $6'122018$ $0.012$ (J) $6'122018$ $0.012$ (J) $6'122018$ $0.011$ (J) $9'242018$ $0.011$ (J) $9'242018$ $0.011$ (J) $0.028$ (J) $0.0063$ (J) $10/162018$ $0.011$ (J) $0.21/10$ $0.011$ (J) $0.21/10$ $0.011$ (J) $0.021$ (J) $0.011$ (J) $0.021$ (J) $0.011$ (J) $0.021$ (J) $0.011$ (J) $0.021$ (J) $0.011$ (J) $0.021$ (J) $0.011$ (J) $0.021$ (J) $0.011$ (J) $0.021$ (J) $0.011$ (J) $0.021$ (J) $0.011$ (J) $0.021$ (J) $0.011$ (J) <td< td=""><td>3/28/2018</td><td>0.02 (J)</td><td>0.013 (J)</td><td></td><td></td><td></td><td></td></td<>	3/28/2018	0.02 (J)	0.013 (J)				
43/2018     0.02/J       67/2018     0.02 J       68/2018     0.012 J       61/20208     0.012 J       61/302018     0.012 J       62/20218     0.02 J       62/20218     0.02 J       62/20218     0.02 J       62/20218     0.02 J       62/20218     0.011 J       92/20208     0.011 J       92/20209     0.011 J       92/20219     0.011 J       92/20219     0.011 J       92/20219     0.011 J       92/20219     0.021 J       92/20219     0.011 J       92/20219     0.021 J       92/20219     0.021 J       92/20219     0.021 J       92/20219     0.021 J       92/20219     0.021 J       92/20219     0.021 J       92/20219     0.021 J       92/20219     0.021 J       92/20219     0.021 J       92/20219     0.021 J       92/20219     0.021 J       92/20219     0.021 J       92/20219     0.021 J	3/30/2018					<0.03	0.0061 (J)
67/2018       0.02 (J)         67/2018       0.012 (J)         61/12/2018       -         6/13/2018       -         6/20/2018       -         6/20/2018       -         6/20/2018       -         6/20/2018       -         6/20/2018       -         6/20/2018       -         6/20/2018       -         9/24/2018       -         9/24/2018       -         9/24/2018       -         9/24/2018       -         9/24/2018       -         9/24/2018       -         9/24/2018       -         9/24/2018       -         9/24/2018       -         9/24/2018       -         9/24/2018       -         9/24/2018       -         9/24/2018       -         9/24/2018       -         9/24/2018       -         9/24/2018       -         9/24/2018       -         9/24/2018       -         9/24/2018       -         9/24/2018       -         9/24/2018       -         9/24/2019       -      9	4/3/2018				0.027 (J)		
64/2018       0.012 (J)         61/2018          61/3/2018          62/2018          62/2018          62/2018          62/2018          62/2018          62/2018          62/2018          62/2018          62/2018          62/2018          62/2018          62/2018          62/2018          62/2018          62/2018          62/2018          62/2018          6011          6011          62/2019          61/2019          61/2019          61/2019          61/2019          61/2019          61/2019          61/2019          61/2019          61/2019          61/2019          61/2019          61/2019	6/7/2018	0.02 (J)					
6/12/2018       <	6/8/2018		0.012 (J)				
6/13/2018       -       0.032 (J)         6/2018       -       0.033 (J)         9/24/2018       -       0.028 (J)         9/24/2018       -       0.028 (J)         9/24/2018       -       -         9/24/2018       -       -         9/26/2018       -       -         9/26/2018       -       -         9/26/2018       0.011 (J)       -         10/16/2018       0.011 (J)       -         10/16/2018       0.014 (J)       -         9/27/2019       0.021 (J)       0.014 (J)         9/27/2019       0.013 (J)       -         9/2/2019       -       -         9/2/2019       0.013 (J)       -         9/2/2019       0.013 (J)       -         9/2/2019       0.013 (J)       -         9/2/2019       0.021 (J)       0.014 (J)         9/2/2019       0.014 (J)       -         9/2/2019       0.014 (J)       -         9/2/2019       0.014 (J)       -         9/2/2019       0.014 (J)       -         9/2/2019       0.014 (J)       -         9/2/2019       0.014 (J)       - <t< td=""><td>6/12/2018</td><td></td><td></td><td></td><td></td><td>&lt;0.03</td><td></td></t<>	6/12/2018					<0.03	
6/29/2018       0.032 (J)         8/6/2018       0.033 (J)         9/24/2018       0.028 (J)         9/26/2018       <	6/13/2018						0.0065 (J)
8k6/2018       0.033 (J)         9/24/2018       0.021 (J)         9/26/2018       0.011 (J)         10/1/2018       0.021 (J)         10/1/2018       0.011 (J)         2/27/2019       0.021 (J)         10/1/2018       0.014 (J)         3/5/2019       0.014 (J)         3/5/2019       0.014 (J)         3/6/2019       0.013 (J)         4/1/2019       0.021 (J)         0.013 (J)       0.0057 (J)         4/1/2019       0.011 (J)         10/2/2019       0.011 (J)         10/2/2019       0.011 (J)         10/2/2019       0.011 (J)         10/2/2019       0.011 (J)         10/2/2019       0.011 (J)         10/2/2019       0.011 (J)         10/2/2019       0.011 (J)         10/2/2019       0.011 (J)         10/2/2019       0.011 (J)         10/2/2019       0.011 (J)         10/2/2019       0.011 (J)         10/2/2019       0.011 (J)         10/2/2019       0.011 (J)         10/2/2019       0.011 (J)         10/2/2019       0.011 (J)         10/2/2019       0.011 (J)         10/2/2019	6/29/2018				0.032 (J)		
9/24/2018       0.028 (J)         9/26/2018          10/1/2018       0.011 (J)         10/1/2018       0.011 (J)         2/27/2019       0.021 (J)         0.014 (J)       0.014 (J)         3/5/2019       0.013 (J)         3/6/2019       -         4/1/2019       0.013 (J)         4/1/2019       0.013 (J)         4/1/2019       0.021 (J)         0.021 (J)       0.013 (J)         4/1/2019       0.021 (J)         0.021 (J)       0.013 (J)         4/1/2019       0.021 (J)         0.021 (J)       0.013 (J)         4/1/2019       0.021 (J)         0.021 (J)       0.01 (J)         9/25/2019       0.02 (J)         0.021 (J)       0.01 (J)         9/25/2019       0.02 (J)         0.021 (J)       0.01 (J)	8/6/2018				0.033 (J)		
9/26/2018       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	9/24/2018				0.028 (J)		
10/1/2018       0.011 (J)         10/1/2018       0.011 (J)         2/2/2019       0.021 (J)       0.014 (J)         3/5/2019       0.014 (J)         3/6/2019       -         3/6/2019       -         4/1/2019       0.021 (J)         0.013 (J)       -         4/1/2019       0.014 (J)         9/25/2019       0.01 (J)         9/25/2019       0.01 (J)         9/26/2019       -         9/26/2019       -         9/26/2019       -         9/26/2019       -         9/26/2019       -         9/26/2019       -         9/26/2019       -         9/26/2019       -         9/26/2019       -         9/26/2019       -         9/26/2019       -         9/26/2019       -         9/26/2019       -         9/26/2019       -         9/26/2019       -         9/26/2019       -         9/26/2019       -         9/26/2019       -         9/26/2019       -         9/26/2019       -         9/2010       -	9/26/2018					<0.03	0.0063 (J)
10/16/2018       0.0011 (J)         2/27/2019       0.021 (J)       0.014 (J)         3/5/2019        <	10/1/2018	0.02 (J)	0.011 (J)				
2/27/2019       0.021 (J)       0.014 (J)         3/5/2019       <	10/16/2018			0.0011 (J)			
3/5/2019     <	2/27/2019	0.021 (J)	0.014 (J)				
3/6/2019       0.021 (J)       0.013 (J)         4/1/2019       <0.03 (J)	3/5/2019					<0.03	
4/1/2019     0.021 (J)     0.013 (J)       4/4/2019     <0.03	3/6/2019						0.0057 (J)
4/4/2019     <0.03	4/1/2019	0.021 (J)	0.013 (J)				
9/25/2019 0.02 (J) 0.01 (J) 9/26/2019 <0.03 <0.03 0.0041 (J)	4/4/2019					<0.03	0.0058 (J)
9/26/2019 <0.03 <0.03 0.0041 (J)	9/25/2019	0.02 (J)	0.01 (J)				
	9/26/2019			<0.03		<0.03	0.0041 (J)

Constituent: Lithium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
2/11/2020		0.013 (J)				
2/12/2020	0.019 (J)					
3/19/2020	0.023 (J)	0.014 (J)				
3/25/2020			0.011 (J)			0.0032 (J)
3/26/2020					<0.03	
9/23/2020	0.023 (J)	0.013 (J)			<0.03	
9/24/2020			0.001 (J)			
9/25/2020				0.028 (J)		
10/7/2020						0.0014 (J)
2/9/2021				0.024 (J)	<0.03	
2/10/2021	0.023 (J)	0.015 (J)	0.0012 (J)			0.0011 (J)
3/3/2021	0.024 (J)	0.017 (J)			<0.03	
3/4/2021			0.0015 (J)	0.028 (J)		<0.03

Constituent: Mercury (mg/L) Analysis Run 5/6/2021 8:36 PM

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (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
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
1/11/2017					<0.0002	<0.0002	<0.0002		
1/13/2017								<0.0002	<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				
6/28/2017						<0.0002	<0.0002		
6/29/2017					<0.0002			<0.0002	<0.0002
3/28/2018					<0.0002	<0.0002	<0.0002		
3/29/2018								<0.0002	<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			
2/11/2020					<0.0002	<0.0002	<0.0002		
2/12/2020								<0.0002	<0.0002
9/23/2020		<0.0002	<0.0002						
9/24/2020	<0.0002			<0.0002					
2/9/2021	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
3/3/2021	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	
3/4/2021				<0.0002					<0.0002

Constituent: Mercury (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.0002	<0.0002	<0.0002				
6/7/2016						9.8E-05 (J)			
7/26/2016			<0.0002	<0.0002	<0.0002				
7/28/2016						<0.0002			
8/30/2016									<0.0002
9/14/2016			<0.0002	<0.0002	<0.0002				
9/20/2016						<0.0002			
11/2/2016			<0.0002	<0.0002					
11/4/2016					<0.0002				
11/8/2016						<0.0002			
11/16/2016									<0.0002
1/12/2017				<0.0002	<0.0002				
1/13/2017			<0.0002						
1/16/2017						<0.0002			
2/27/2017									<0.0002
3/6/2017			<0.0002						
3/7/2017				<0.0002	<0.0002				
3/9/2017						<0.0002			
5/1/2017			<0.0002	<0.0002					
5/2/2017					<0.0002	<0.0002			
5/10/2017									<0.0002
6/27/2017				<0.0002	<0.0002				
6/29/2017			<0.0002						
7/10/2017						<0.0002			
7/11/2017									<0.0002
10/11/2017	<0.0002								
10/12/2017		<0.0002					<0.0002	<0.0002	<0.0002
11/20/2017	7E-05 (J)	8E-05 (J)					8E-05 (J)		
11/21/2017								6E-05 (J)	
1/10/2018		<0.0002							
1/11/2018	<0.0002							<0.0002	
1/12/2018							<0.0002		
2/19/2018		<0.0002						<0.0002	
2/20/2018	<0.0002						<0.0002		
3/29/2018			<0.0002	<0.0002	<0.0002				
3/30/2018						<0.0002			
4/3/2018	<0.0002	<0.0002					<0.0002	<0.0002	
4/4/2018									<0.0002
6/27/2018								<0.0002	
6/28/2018	<0.0002	3.6E-05 (J)					3.7E-05 (J)		
8/7/2018	<0.0002	<0.0002					<0.0002	<0.0002	
9/20/2018									4.8E-05 (J)
9/24/2018	<0.0002	<0.0002					<0.0002	<0.0002	
9/26/2018			<0.0002	<0.0002	<0.0002				
9/27/2018						<0.0002			
3/4/2019			<0.0002	<0.0002	<0.0002				
3/6/2019						<0.0002			
8/21/2019	<0.0002	<0.0002							
8/22/2019							<0.0002	<0.0002	<0.0002
2/12/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				
2/8/2021				<0.0002	<0.0002				
2/9/2021			<0.0002			0.00015 (J)	<0.0002		

Constituent: Mercury (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
2/10/2021	<0.0002	<0.0002						<0.0002	<0.0002
3/2/2021				<0.0002	<0.0002				
3/3/2021			<0.0002						
3/4/2021	<0.0002	<0.0002				<0.0002	<0.0002	<0.0002	<0.0002

#### Constituent: Mercury (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (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					
2/0/2013				<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)					
6/1/2016						<0.0002	<0.0002		
6/2/2016					<0.0002				<0.0002
7/25/2016							<0.0002		<0.0002
7/26/2016					<0.0002	<0.0002			
8/30/2016			<0.0002						
8/31/2016	<0.0002			<0.0002					
9/1/2016		<0.0002							
9/13/2016						<0.0002	<0.0002		
9/14/2016								<0.0002	
9/15/2016					<0.0002				
9/19/2016									<0.0002
11/1/2016						<0.0002			<0.0002
11/2/2016					<0.0002				
11/4/2016							<0.0002	<0.0002	
11/14/2016			<0.0002						
11/15/2016		<0.0002							
11/16/2016	<0.0002								
11/28/2016				<0.0002					
12/15/2016								<0.0002	
1/10/2017					<0.0002				
1/11/2017						<0.0002			
1/16/2017							<0.0002	<0.0002	<0.0002
2/21/2017									<0.0002
2/22/2017				<0.0002					
2/24/2017	<0.0002		<0.0002						
2/27/2017		<0.0002							
3/2/2017						<0.0002	<0.0002		
3/3/2017								<0.0002	
3/8/2017					<0.0002				
4/26/2017					<0.0002				<0.0002
4/27/2017						<0.0002	< 0.0002		
4/28/2017								<0.0002	
5/8/2017			<0.0002	<0.0002				0.0002	
51012011			0.0002	0.0002					

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
5/9/2017		<0.0002							
5/10/2017	<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	<0.0002
7/11/2017	<0.0002		<0.0002		-0.0002				-0.0002
7/13/2017	<b>40.0002</b>	<0.0002	<0.000Z						
7/13/2017		<b>40.0002</b>		<0.0002					
10/10/2017			<0.0002	<0.0002					
10/11/2017		<0.0002	<0.000Z						
10/11/2017	<0.0002	<0.0002							
10/12/2017	<0.0002			-0.0000					
10/16/2017				<0.0002					
2/19/2018				<0.0002					
3/2//2018					<0.0002		<0.0002		<0.0002
3/28/2018								<0.0002	
3/29/2018						<0.0002			
4/2/2018			<0.0002						
4/4/2018	<0.0002	<0.0002							
8/6/2018				<0.0002					
9/19/2018			5.3E-05 (J)						
9/20/2018	5.2E-05 (J)	6.1E-05 (J)							
2/25/2019				7.4E-05 (J)					
2/26/2019					6.1E-05 (J)				6.8E-05 (J)
2/27/2019						5.1E-05 (J)	5.4E-05 (J)	<0.0002	
3/28/2019						4E-05 (J)	<0.0002		
3/29/2019					<0.0002			<0.0002	
4/1/2019									8.2E-05 (J)
6/12/2019				<0.0002					
8/19/2019				<0.0002					
8/20/2019			<0.0002						
8/21/2019	<0.0002								
9/24/2019						<0.0002	<0.0002	<0.0002	
9/25/2019					<0.0002				<0.0002
10/8/2019				<0.0002					
2/10/2020						<0.0002	<0.0002		
2/11/2020								<0.0002	
2/12/2020					<0.0002				<0.0002
5/6/2020				<0.0002					
8/26/2020				<0.0002					
8/27/2020			<0.0002	0.0002					
9/22/2020			-0.0002	<0.0002					
2/9/2021	<0.0005	0.00014 (1)		-0.0002					
2/10/2021	~0.000Z	5.000 14 (5)			<0.0002			<0.0003	
2/10/2021					<u>~0.000</u> ∠			~0.000Z	<0.0002
2/11/2021						<0.0002	<0.0002		<b>~0.000∠</b>
2/12/2021				-0.0000		<0.0002	<0.0002		
3/2/2021				<0.0002					
3/4/2021	< 0.0002	< 0.0002							

Constituent: Mercury (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		<0.0002				
6/2/2016	<0.0002					
6/8/2016					<0.0002	
7/25/2016		<0.0002				
7/26/2016	<0.0002					
8/1/2016					<0.0002	
9/2/2016						<0.0002
9/14/2016		<0.0002				
9/15/2016	<0.0002					
9/20/2016					<0.0002	
11/1/2016	<0.0002	<0.0002				
11/8/2016					<0.0002	
11/14/2016						<0.0002
1/11/2017	<0.0002	<0.0002				
1/17/2017					<0.0002	
2/28/2017						<0.0002
3/1/2017		<0.0002				
3/2/2017	<0.0002					
3/8/2017					<0.0002	
4/26/2017	<0.0002	<0.0002			0.0002	
5/2/2017	0.0002	0.0002			<0.0002	
5/2/2017					-0.0002	<0.0002
6/20/2017	<0.0002	<0.0002				<0.000Z
0/20/2017	<0.0002	<0.0002			<0.0002	
7/7/2017					<0.0002	-0.0000
//13/2017						<0.0002
9/22/2017						<0.0002
9/29/2017						<0.0002
10/6/2017						<0.0002
10/12/2017				<0.0002		
11/21/2017				6E-05 (J)		
1/11/2018				<0.0002		
2/20/2018				<0.0002		
3/28/2018	<0.0002	<0.0002				
3/30/2018					<0.0002	<0.0002
4/3/2018				<0.0002		
6/29/2018				<0.0002		
8/6/2018				<0.0002		
9/24/2018				<0.0002		
9/26/2018					<0.0002	<0.0002
2/27/2019	6.2E-05 (J)	6.1E-05 (J)				
3/5/2019					<0.0002	
3/6/2019						<0.0002
4/1/2019	9.6E-05 (J)	8.4E-05 (J)				
9/25/2019	<0.0002	<0.0002				
2/11/2020		<0.0002				
2/12/2020	<0.0002					
9/24/2020			<0.0002			
9/25/2020			5.0002	<0.0002		
2/9/2021				<0.0002	<0.0002	
2/10/2021	<0.0002	<0.0002	<0.0002	5.0002	5.0002	<0.0002
2/3/2021	~0.000Z	~0.000Z	~U.UUUZ		<0.0002	~U.UUUZ
3/3/2021			<0.0002	<0.0002	SU.UUU∠	<0.0002
3/4/2UZ I			<b>~</b> 0.000∠	<b>~0.000</b> ∠		NU.UUU2

Constituent: Molybdenum (mg/L) Analysis Run 5/6/2021 8:36 PM

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (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
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
1/11/2017					<0.01	<0.01	<0.01		
1/13/2017								<0.01	<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				
6/28/2017						<0.01	<0.01		
6/29/2017					<0.01			<0.01	<0.01
3/28/2018					<0.01	<0.01	<0.01		
3/29/2018								<0.01	<0.01
3/5/2019					<0.01		<0.01	<0.01	<0.01
3/6/2019						<0.01			
2/11/2020					<0.01	<0.01	<0.01		
2/12/2020								<0.01	<0.01
3/24/2020					<0.01	<0.01	<0.01	<0.01	<0.01
3/25/2020	<0.01								
9/23/2020		<0.01	0.0068 (J)		<0.01	<0.01	<0.01		
9/24/2020	0.0022 (J)			<0.01				<0.01	<0.01
2/9/2021	0.0038 (J)	<0.01	0.0068 (J)	<0.01		<0.01	<0.01	<0.01	<0.01
3/3/2021	0.0037 (J)	<0.01	0.0049 (J)		<0.01	<0.01	<0.01	<0.01	
3/4/2021				<0.01					<0.01

Constituent: Molybdenum (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.01	0.0035 (J)	<0.01				
6/7/2016						<0.01			
7/26/2016			<0.01	0.0042 (J)	<0.01				
7/28/2016						<0.01			
8/30/2016									0.0019 (J)
9/14/2016			<0.01	0.0041 (J)	<0.01				
9/20/2016						<0.01			
11/2/2016			<0.01	0.0039 ( 1)		-0.01			
11/2/2010			<0.01	0.0055 (5)	-0.01				
11/4/2016					<0.01				
11/8/2016						<0.01			
11/16/2016									0.0027 (J)
1/12/2017				0.0041 (J)	<0.01				
1/13/2017			<0.01						
1/16/2017						<0.01			
2/27/2017									0.0031 (J)
3/6/2017			<0.01						
3/7/2017				0.0047 (J)	<0.01				
3/9/2017						<0.01			
5/1/2017			<0.01	0.0045 (J)					
5/2/2017					<0.01	<0.01			
5/10/2017									0.0017 (J)
6/27/2017				0.004 (1)	<0.01				
6/29/2017			<0.01	0.004 (0)	-0.01				
3/10/2017			<0.01			-0.01			
7/10/2017						<0.01			0.0014 ( 1)
//11/2017									0.0014 (J)
10/11/2017	0.0094 (J)								
10/12/2017		<0.01					<0.01	<0.01	<0.01
11/20/2017	0.0081 (J)	<0.01					<0.01		
11/21/2017								<0.01	
1/10/2018		<0.01							
1/11/2018	0.0074 (J)							<0.01	
1/12/2018							<0.01		
2/19/2018		<0.01						<0.01	
2/20/2018	<0.01						<0.01		
3/29/2018			<0.01	<0.01	<0.01				
3/30/2018						<0.01			
4/3/2018	0.006 (J)	<0.01					<0.01	<0.01	
4/4/2018	/								<0.01
6/27/2018								<0.01	
6/28/2019	0.005 ( !)	<0.01					<0.01		
0/20/2018	0.003 (3)	<0.01					<0.01	-0.01	
8/7/2018	0.0045 (J)	<0.01					<0.01	<0.01	-0.01
9/20/2018	/ II								<0.01
9/24/2018	0.0035 (J)	<0.01					<0.01	<0.01	
3/4/2019			<0.01	<0.01	<0.01				
3/6/2019						<0.01			
8/21/2019	0.0021 (J)	<0.01							
8/22/2019							<0.01	<0.01	<0.01
10/9/2019	0.0018 (J)	<0.01					<0.01	<0.01	<0.01
2/12/2020	0.0025 (J)	<0.01	<0.01	0.0011 (J)	<0.01				
3/24/2020		<0.01		0.0011 (J)	<0.01				
3/25/2020	0.002 (J)		<0.01				<0.01	<0.01	<0.01
3/26/2020	. *					<0.01			

Constituent: Molybdenum (mg/L) Analysis Run 5/6/2021 8:36 PM

9/22/2020	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg) <0.01	YGWA-5D (bg) 0.00099 (J)	YGWA-5I (bg) <0.01	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
9/24/2020	0.0016 (J)	<0.01				<0.01			0.00091 (J)
9/25/2020							<0.01	<0.01	
2/8/2021				0.0011 (J)	<0.01				
2/9/2021			<0.01			<0.01	<0.01		
2/10/2021	0.0013 (J)	<0.01						<0.01	0.00094 (J)
3/2/2021				<0.01	<0.01				
3/3/2021			<0.01						
3/4/2021	0.0014 (J)	<0.01				<0.01	<0.01	<0.01	0.00085 (J)

Constituent: Molybdenum (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016						0.014 (J)	0.012 (J)		
6/2/2016					<0.01				<0.01
7/25/2016							0.0098 (J)		<0.01
7/26/2016					<0.01	0.0132			
8/30/2016			<0.01						
8/31/2016	0.0022 (J)			<0.01					
9/1/2016		<0.01							
9/13/2016						0.0127	0.01 (J)		
9/14/2016								0.0039 (J)	
9/15/2016					<0.01				
9/19/2016									<0.01
11/1/2016						0.0092 (J)			<0.01
11/2/2016					<0.01				
11/4/2016							0.01	0.0077 (J)	
11/14/2016			<0.01						
11/15/2016		<0.01							
11/16/2016	<0.01								
11/28/2016				<0.01					
12/15/2016								0.0066 (J)	
1/10/2017					<0.01				
1/11/2017						0.0093 (J)			
1/16/2017							0.0086 (J)	0.0056 (J)	<0.01
2/21/2017									<0.01
2/22/2017				<0.01					
2/24/2017	<0.01		<0.01						
2/27/2017		0.0007 (J)							
3/2/2017						0.0099 (J)	0.01		
3/3/2017								0.0049 (J)	
3/8/2017					<0.01			( )	
4/26/2017					<0.01				<0.01
4/27/2017						0.0103	0.0101		
4/28/2017								0.004 (J)	
5/8/2017			<0.01	<0.01					
5/9/2017		<0.01							
5/10/2017	<0.01								
5/26/2017								0.0029 (J)	
6/27/2017						0.0097 (J)	0.0093 (J)		
6/28/2017								0.0036 (J)	
6/30/2017					<0.01				<0.01
7/11/2017	<0.01		<0.01						
7/13/2017		<0.01							
7/17/2017				<0.01					
10/10/2017			<0.01						
10/11/2017		<0.01							
10/12/2017	<0.01								
10/16/2017				<0.01					
2/19/2018				<0.01					
3/27/2018					<0.01		0.0074 (J)		<0.01
3/28/2018								0.0038 (J)	
3/29/2018						0.0076 (J)			
4/2/2018			<0.01						
4/4/2018	<0.01	<0.01							

#### Constituent: Molybdenum (mg/L) Analysis Run 5/6/2021 8:36 PM

6/5/2018	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/6/2018						0.0002 (0)	0.0073 (J)		
6/7/2018							0.0070(0)	0.004 (1)	
6/8/2018					<0.01			0.004 (3)	
6/11/2018					<b>\0.01</b>				<0.01
8/6/2018				<0.01					-0.01
0/10/2018			<0.01	<b>~0.01</b>					
9/19/2018	~0.01	~0.01	-0.01						
9/20/2018	<0.01	<0.01			-0.01	0.0085 (1)	0.0076 (1)	0.0042 (1)	
10/1/2018					<0.01	0.0085 (J)	0.0076 (3)	0.0042 (J)	-0.01
10/2/2018					-0.01				<0.01
2/20/2019					<0.01	0.0007 (1)	0.0070 (1)	0.0041 (1)	<0.01
2/27/2019						0.0087 (J)	0.0078 (J)	0.0041 (J)	
3/28/2019					-0.01	0.0092 (J)	0.0082 (J)	0.0041 (1)	
3/29/2019					<0.01			0.0041 (J)	
4/1/2019									<0.01
8/19/2019				<0.01					
8/20/2019			<0.01						
8/21/2019	0.0012 (J)								
9/24/2019						0.0072 (J)	0.0074 (J)	0.0054 (J)	
9/25/2019					<0.01				<0.01
10/8/2019			<0.01						
10/9/2019	0.0012 (J)								
2/10/2020						0.0087 (J)	0.0062 (J)		
2/11/2020								0.0057 (J)	
2/12/2020					<0.01				<0.01
3/17/2020			<0.01						
3/18/2020					<0.01		0.0056 (J)		
3/19/2020						0.0088 (J)		0.0046 (J)	<0.01
3/25/2020	0.0015 (J)	<0.01							
8/26/2020				<0.01					
8/27/2020			<0.01						
9/22/2020			<0.01						
9/23/2020						0.008 (J)	0.0059 (J)	0.0071 (J)	
9/24/2020		<0.01							<0.01
9/25/2020	0.0011 (J)				<0.01				
2/9/2021	0.0012 (J)	<0.01							
2/10/2021					<0.01			0.0041 (J)	
2/11/2021									<0.01
2/12/2021						0.008 (J)	0.0056 (J)		
3/1/2021			<0.01						<0.01
3/2/2021					<0.01				
3/3/2021						0.0088 (J)	0.0049 (J)	0.0074 (J)	
3/4/2021	0.0011 (J)	<0.01							

Constituent: Molybdenum (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		0.0055 (J)				
6/2/2016	0.0093 (J)					
6/8/2016					<0.01	
7/25/2016		0.0037 (J)				
7/26/2016	0.0113					
8/1/2016					<0.01	
9/2/2016						0.0027 (J)
9/14/2016		0.0034 (J)				
9/15/2016	0.0112					
9/20/2016					<0.01	
11/1/2016	0.0099 (J)	0.0025 (J)				
11/8/2016					<0.01	
11/14/2016						0.0071 (J)
1/11/2017	0.0093 (J)	0.0033 (J)				
1/17/2017					<0.01	
2/28/2017						0.0038 (J)
3/1/2017		0.0044 (J)				
3/2/2017	0.0103					
3/8/2017					<0.01	
4/26/2017	0.01	0 0075 (J)				
5/2/2017	0.01	0.0070 (0)			<0.01	
5/2/2017					-0.01	0.0025 ( ))
6/20/2017	0.0102	0.008 ( 1)				0.0023 (3)
0/20/2017	0.0102	0.008 (J)			-0.01	
7/7/2017					<0.01	0.0014 (1)
7/13/2017						0.0014 (3)
9/22/2017						<0.01
9/29/2017						<0.01
10/6/2017						<0.01
10/12/2017				0.0022 (J)		
11/21/2017				0.0016 (J)		
1/11/2018				0.0015 (J)		
2/20/2018				<0.01		
3/28/2018	0.011	0.0025 (J)				
3/30/2018					<0.01	<0.01
4/3/2018				<0.01		
6/7/2018	0.011					
6/8/2018		0.0041 (J)				
6/29/2018				0.0021 (J)		
8/6/2018				<0.01		
9/24/2018				<0.01		
10/1/2018	0.012	0.0037 (J)				
2/27/2019	0.011	0.0027 (J)				
3/5/2019					<0.01	
3/6/2019						<0.01
4/1/2019	0.012	0.0021 (J)				
9/25/2019	0.012	0.0087 (J)				
2/11/2020		0.003 (J)				
2/12/2020	0.013	. /				
3/19/2020	0.013	0.0043 (J)				
3/25/2020		/	0.0019 (J)			<0.01
3/26/2020			- \-/		<0.01	
9/23/2020	0.012	0.01			<0.01	
-						

Constituent: Molybdenum (mg/L) Analysis Run 5/6/2021 8:36 PM

YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
		<0.01			
			0.0016 (J)		
					0.0015 (J)
			0.0016 (J)	<0.01	
0.014	0.0038 (J)	<0.01			<0.01
0.013	0.0036 (J)			<0.01	
		<0.01	0.0024 (J)		<0.01
	YGWA-3D (bg) 0.014 0.013	YGWA-3D (bg) YGWA-3I (bg) 0.014 0.0038 (J) 0.013 0.0036 (J)	YGWA-3D (bg) YGWA-3I (bg) PZ-35 <0.01 0.014 0.0038 (J) <0.01 0.013 0.0036 (J) <0.01	YGWA-3D (bg) YGWA-3I (bg) PZ-35 PZ-37 <0.01 0.0016 (J) 0.014 0.0038 (J) <0.01 0.013 0.0036 (J) <0.01 0.0024 (J)	YGWA-3D (bg) YGWA-3I (bg) PZ-35 PZ-37 YGWC-24SA <0.01 0.0016 (J) - 0.0016 (J) - 0.011 0.014 0.0038 (J) - 0.01 - 0.01 0.013 0.0036 (J) - 0.01 - 0.01 0.0024 (J) - 0.01

Constituent: pH (S.U.) Analysis Run 5/6/2021 8:36 PM

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (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
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
1/11/2017					5.59	6.05	5.48		
1/13/2017								5.79	6.41
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				
6/28/2017						6	5.36		
6/29/2017					5.56			5.85	6.47
10/3/2017									6.56
10/4/2017					5.57		5.32	5.83	
10/5/2017						6.11			
3/28/2018					5.59	6.1	5.34		
3/29/2018								5.93	6.75
6/5/2018									6.09
6/6/2018								5.86	
6/7/2018						5.98			
6/11/2018					5.58		5.28		
9/25/2018					5.59	5.81	4.86	5.84	6.67
3/5/2019					5.48		5.26	6.07	7.22
3/6/2019						5.99			
4/2/2019					5.74				6.94
4/3/2019						6.29	5.47	5.71	
9/24/2019									6.87
9/25/2019					5.49			5.86	
9/26/2019						6.04	5.2		
1/3/2020	5.78								
1/15/2020		6.25		5.64					
1/16/2020			6.47						
2/11/2020				5.37	5.58	6.07	5.3		
2/12/2020								6	7.13
3/24/2020					5.57	5.98	5.33	5.86	6.35
3/25/2020	6.13								
9/23/2020		5.66	5.89		5.58 (D)	6.01 (D)	5.29 (D)		
9/24/2020	6			5.38				5.8 (D)	6.7 (D)
2/9/2021	6.42	5.81	6.96	5.34		6.12	5.43	5.86	6.95
3/3/2021	6.54	5.67	6.8		5.52	5.89	5.31	5.89	
3/4/2021				5.32					6.8

Constituent: pH (S.U.) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			6.36	7.67	5.75				
6/7/2016						5.57			
7/26/2016			6.22	7.66	5.72				
7/28/2016						5.6			
8/30/2016									5.64
9/14/2016			6.23	7.6	5.74				
9/20/2016						5.53			
11/2/2016			6.08	7.35					
11/4/2016					5.61				
11/8/2016						5.53			
11/16/2016									6.21
1/12/2017				7 49	5 71				
1/13/2017			6 19		0.71				
1/16/2017			0.10			5 59			
2/27/2017						5.55			6.00
2/2//2017			6.2						0.09
3/0/2017			0.2	7 42	E 66				
3/7/2017				7.43	5.00	5 50			
3/9/2017						5.56			
5/1/2017			6.21	7.22					
5/2/2017					5.65	5.61			
5/10/2017									5.79
6/27/2017				7.32	5.7				
6/29/2017			6.21						
7/10/2017						5.68			
7/11/2017									5.45
10/3/2017				7.48	5.79				
10/5/2017			6.16						
10/11/2017	6.4					5.46			
10/12/2017		5.43					4.85	4.94	5.48
11/20/2017	6.33	5.1					4.87		
11/21/2017								4.69	
1/10/2018		4.97							
1/11/2018	6.29							4.73	
1/12/2018							4.78		
2/19/2018		5.6						4.96	
2/20/2018	7.22						5.1		
3/29/2018			6.09	7 02	5 63				
3/30/2018			0.00	7.02	0.00	5 73			
4/3/2018	6 87	5.84				5.75	4 76	5 31	
4/3/2018	0.07	5.64					4.70	5.51	E 02
4/4/2018				7.40					5.95
6/6/2018				7.43					
6/7/2018			6.12		5.63				
6/12/2018						5.63			
6/27/2018								4.78	
6/28/2018	6.18	5.24					4.75		
8/7/2018	6.08	5.18					4.72	4.77	
9/20/2018									5.63
9/24/2018	5.81	5.14					4.67	4.78	
9/26/2018			5.84	7.13	5.63				
9/27/2018						5.47			
3/4/2019			6.18	7.46	5.75				
3/6/2019						5.84			

#### Constituent: pH (S.U.) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/26/2019		5.3							
3/27/2019	5.84						4.79		5.57
3/28/2019								5	
4/3/2019			6.43	7.11	5.63				
4/4/2019						5.64			
8/21/2019	5.96	5.26							
8/22/2019							4.81	4.89	5.61
9/24/2019				6.93	5.6				
9/25/2019			6.2						
9/27/2019						5.77			
10/9/2019	5.81	5.22					4.8	4.86	5.5
2/12/2020	5.97	5.3	6.15	7.52	5.83				
3/24/2020		5.29		7.34	5.81				
3/25/2020	5.78		6.26				4.89	4.87	5.53
3/26/2020						5.69			
9/22/2020			5.8 (D)	7.19 (D)	5.99 (D)				
9/24/2020	5.7 (D)	5.43 (D)				5.51			5.55
9/25/2020							4.9	4.95	
2/8/2021					5.67				
2/9/2021			6.06			5.61	5.04		
2/10/2021	5.8	5.19						4.98	5.65
3/2/2021				7.15	5.63				
3/3/2021			6.21						
3/4/2021	5.54	5.23				5.44	5.01	4.69	5.59

Constituent: pH (S.U.) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (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					
0/12/2013				6.00					
2/3/2014				0.32					
8/3/2015				6.13 (D)					
2/16/2016				5.64					
6/1/2016						7.46	6.33		
6/2/2016					5.46				5.75
7/25/2016							6.21		5.82
7/26/2016					5.45	7.43			
8/30/2016			5.75						
8/31/2016	7.27								
9/1/2016		5.78							
9/13/2016						7.44	6.16	7.41	
9/15/2016					5.45				
9/19/2016									5.78 (D)
11/1/2016						7.24			5.62
11/2/2016					5.41				
11/4/2016							6.29	7.12	
11/14/2016			5.59						
11/15/2016		5.81							
11/16/2016	6.79								
11/28/2016				6.23					
12/15/2016								7.24	
1/10/2017					5 37				
1/11/2017					0.07	73			
1/16/2017						7.0	6 20	7.24	5 72
2/21/2017							0.29	7.24	5.72
2/21/2017				6.01					5.07
2/22/2017	6.00		5.40	0.21					
2/24/2017	6.39	5.00	5.49						
2/2//2017		80.6				7.00	C 00		
3/2/2017						1.23	0.28		
3/3/2017								1.22	
3/8/2017					5.41				
4/26/2017					5.02				5.56
4/27/2017						6.99	6.09		
4/28/2017								7.21	
5/8/2017			5.58	6.12					
5/9/2017		6.18							
5/10/2017	6.5								
5/26/2017								7.13	
6/27/2017						6.87	6.21		
6/28/2017								7.06	
6/30/2017					5.39				5.72
7/11/2017	6.32		5.58						

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
7/13/2017		5.6							
7/17/2017				6.03					
10/3/2017						6.81	5.98	6.99	
10/4/2017									5.87
10/5/2017					5.49				
10/10/2017			5.49						
10/11/2017		5.61							
10/12/2017	5.97								
10/16/2017				6.12					
2/19/2018				6.13					
3/27/2018					5.47		6.25		5.83
3/28/2018								7.3	
3/29/2018						7.38			
4/2/2018			6.3 (O)						
4/4/2018	6.41	5.98	(-)						
6/5/2018						7 16			
6/6/2018							6 17		
6/7/2018							0.17	7 29	
6/8/2018					5.45			7.25	
6/11/2018					5.45				5 60
9/6/2019				6.01					5.05
8/0/2018			E 40	0.01					
9/19/2018	5.00	F 67	5.46						
9/20/2018	5.69	5.67			5.00	<u> </u>	5.0	7.07	
10/1/2018					5.39	0.8	5.9	7.07	5.00
10/2/2018									5.39
2/25/2019				6.51					
2/26/2019					5.46				5.//
2/27/2019						6.84	5.8	7.27	
3/27/2019			5.83						
3/28/2019	5.96	5.86				6.99	6.15		
3/29/2019					5.34			7.06	
4/1/2019									5.62
6/12/2019				6.3					
8/19/2019				6.23					
8/20/2019			5.58						
8/21/2019	5.84								
9/24/2019						7.07	6.23	7.01	
9/25/2019					5.19				5.69
9/26/2019		5.6							
10/8/2019			5.59	6.28					
10/9/2019	5.78								
2/10/2020						7.2	6.1		
2/11/2020								7.38	
2/12/2020					5.48				5.8
3/17/2020			5.57	6.14					
3/18/2020					5.38		6.19		
3/19/2020						7.03		7.22	6
3/25/2020	5.79	5.69							
5/6/2020				6.24					
8/26/2020				5.67					
8/27/2020			4.88						
9/22/2020			5.46	5.78					

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Constituent: pH (S.U.) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
9/23/2020						7.15	6.01	7.22	
9/24/2020		5.62							5.67
9/25/2020	5.75				5.44				
2/9/2021	5.86	5.79							
2/10/2021					5.35			7.29	
2/11/2021									5.73
2/12/2021						7.14	6.21		
3/1/2021			5.48						5.78
3/2/2021				5.42	5.49				
3/3/2021						7.2	5.38	7.92	
3/4/2021	5.88	5.88							

Constituent: pH (S.U.) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		7.72				
6/2/2016	7.84					
6/8/2016					5.65	
7/25/2016		7.74				
7/26/2016	7.88					
8/1/2016					5.47	
9/2/2016						5.84
9/14/2016		7.65				
9/15/2016	7.74					
9/20/2016					5.61	
11/1/2016	7.75	7.7				
11/8/2016					5.55	
11/14/2016						6.28
1/11/2017	7.66	7.53				
1/17/2017					5.53	
2/28/2017						5.99
3/1/2017		7 42				
3/2/2017	7 68					
3/8/2017	7.00				5.62	
4/26/2017	7.45	74			5.02	
4/20/2017 E/2/2017	7.45	7.4			E 46	
5/2/2017					5.40	
5/9/2017	7.05	7.5				0.3
6/28/2017	7.65	7.5			5.04	
////2017					5.81	
7/13/2017						5.57
9/22/2017						5.5
9/29/2017						5.58
10/4/2017	7.49	7.45				
10/5/2017					5.45	
10/6/2017						5.51
10/11/2017						5.47
10/12/2017				5.57		
11/21/2017				5.49		
1/11/2018				5.87		
2/20/2018				5.9		
3/28/2018	7.91	7.74				
3/30/2018					5.64	5.51
4/3/2018				5.66		
6/7/2018	7.69					
6/8/2018		7.64				
6/12/2018					5.64	
6/13/2018						5.5
6/29/2018				5.49		
8/6/2018				5.52		
9/24/2018				5.37		
9/26/2018					5.61	5.53
10/1/2018	7.39	7.47			-	
2/27/2019	7 55	7 54				
3/5/2019					5 72	
3/6/2019					5.7 E	5 21
1/1/2019	7 87	7 74				0.21
4/4/2019	7.07	7.74			5 66	5 74
7/4/2013					5.00	J./T

Constituent: pH (S.U.) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
9/25/2019	7.64	7.47				
9/26/2019					5.52	5.51
2/11/2020		7.09				
2/12/2020	7.83					
3/19/2020	7.65	7.31				
3/25/2020			5.65			5.49
3/26/2020					5.51	
9/23/2020	7.57	7.37			5.64	
9/24/2020			5.52			
9/25/2020				5.46		
10/7/2020						5.86
2/9/2021				5.42	5.69	
2/10/2021	7.81	7.58	5.53			6.31
3/3/2021	8.39	8.23			5.7	
3/4/2021			5.64	5.51		5.67

Constituent: Selenium (mg/L) Analysis Run 5/6/2021 8:36 PM

6/6/2016	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)
6/0/2016					0.001 (1)	<0.005	<0.005	<0.00E	0.00048 ( 1)
7/22/2016					0.001 (3)	<0.005	<0.00E	<0.005	0.00048 (3)
7/28/2016					0.0012 (3)	~0.003	~0.003	~0.005	<0.005
0/16/2016					0.0015 ( 1)		<0.00E		<0.005
9/10/2016					0.0015(3)	<0.005	<0.005	<0.005	0.0014 (1)
11/2/2016						<0.005		<0.005	0.0014 (3)
11/2/2016					0.0015 (1)	<0.00F	-0.005	<0.005	<0.00F
1/11/2017					0.0015 (J)	<0.005	<0.005		<0.005
1/11/2017					0.0014 (J)	<0.005	<0.005	<0.00F	<0.00F
1/13/2017						-0.005	-0.005	<0.005	<0.005
3/1/2017					0.0017 ( ))	<0.005	<0.005		
3/2/2017					0.0017 (J)			0.005	
3/6/2017								<0.005	<0.005
4/26/2017						<0.005	<0.005	<0.005	<0.005
5/2/2017					<0.005				
6/28/2017						<0.005	<0.005		
6/29/2017					<0.005			<0.005	<0.005
3/28/2018					<0.005	<0.005	<0.005		
3/29/2018								<0.005	<0.005
6/5/2018									<0.005
6/6/2018								<0.005	
6/7/2018						<0.005			
6/11/2018					<0.005		<0.005		
9/25/2018					<0.005	<0.005	<0.005	<0.005	<0.005
10/16/2018	0.0019 (J)								
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	
9/24/2019									<0.005
9/25/2019					<0.005			<0.005	
9/26/2019	<0.005					<0.005	<0.005		
1/15/2020		<0.005		0.045					
1/16/2020			0.0018 (J)						
2/11/2020					<0.005	<0.005	<0.005		
2/12/2020								<0.005	<0.005
3/24/2020					<0.005	<0.005	<0.005	<0.005	<0.005
3/25/2020	<0.005								
9/23/2020		<0.005	0.016		<0.005	<0.005	<0.005		
9/24/2020	<0.005			0.026				<0.005	<0.005
2/9/2021	<0.005	<0.005	<0.005	0.06		<0.005	<0.005	<0.005	<0.005
3/3/2021	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	
3/4/2021				0.061					<0.005
Constituent: Selenium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (ba)	YGWA-40 (ba)	YGWA-4I (ba)	YGWA-5D (ba)	YGWA-5I (ba)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.005	<0.005	< 0.005				
6/7/2016						0.037			
7/26/2016			(J) 00009	<0.005	0.0009 (J)				
7/28/2016						0.0385			
8/30/2016									0.0711
9/14/2016			<0.005	<0.005	<0.005				
9/20/2016						0.0464			
11/2/2016			<0.005	<0.005					
11/4/2016					<0.005				
11/8/2016					0.000	0.0521			
11/16/2016									0 0313
1/12/2017				<0.005	<0.005				0.0010
1/13/2017			<0.005	-0.000	-0.000				
1/16/2017			0.000			0.0469			
2/27/2017						0.0400			0.0316
3/6/2017			<0.005						0.0010
3/7/2017			-0.000	<0.005	<0.005				
3/9/2017				-0.000	-0.000	0.0437			
5/1/2017			<0.005	<0.005		0.0437			
5/2/2017			-0.003	-0.003	<0.005	0.0395			
5/10/2017					-0.005	0.0333			0.053
6/27/2017				<0.005	<0.005				0.000
6/20/2017			<0.005	-0.003	-0.000				
7/10/2017			~0.003			0.0386			
7/10/2017						0.0300			0.0607
10/11/2017	<0.005								0.0037
10/11/2017	<0.005	<0.005					0.265	0.0191	0.0594
11/20/2017	<0.005	<0.003 0.0042 ( I)					0.205	0.0191	0.0354
11/20/2017	~0.005	0.0042 (3)					0.240	0.0697	
1/10/2019		0.0042 (1)						0.0087	
1/11/2018	<0.005	0.0043 (J)						0.069	
1/12/2018	<0.005						0.249	0.009	
2/10/2018		<0.005					0.249	0.071	
2/19/2018	<0.005	~0.005					0.252	0.071	
2/20/2018	<0.005		<0.005	<0.005	<0.005		0.255		
3/29/2018			~0.003	~0.005	<0.005	0.028			
4/3/2018	<0.005	<0.005				0.020	0.23	0.067	
4/3/2018	~0.005	~0.005					0.23	0.007	0.055
6/6/2018				<0.005					0.035
6/7/2018			<0.005	~0.005	<0.005				
6/12/2018			~0.005		<0.005	0.026			
6/27/2018						0.020		0.066	
6/28/2018	<0.005	0.0032 (1)					0.23	0.000	
0/20/2010	<0.005	0.0032 (3)					0.23	0.061	
0/7/2018	<0.005	0.0031 (J)					0.2	0.001	0.041
9/20/2018	0.0015 (1)	0.0026 ( 1)					0.2	0.061	0.041
0/26/2010	0.0013 (0)	0.0020 (0)	<0.005	<0.005	<0.005		0.2	0.001	
0/27/2010			~0.000	~0.000	~0.003	0 023			
312112010			<0.005	<0.005	<0.005	0.023			
3/4/2019			~0.000	NU.000	-0.003	0.019			
A/3/2010			<0.005	<0.005	<0.005	0.013			
4/3/2019			~0.000	~0.000	~0.003	0.017			
4/4/2013						0.017			

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
8/21/2019	<0.005	0.0024 (J)							
8/22/2019							0.14	0.058	0.047
9/24/2019				<0.005	<0.005				
9/25/2019			<0.005						
9/27/2019						0.018			
10/9/2019	<0.005	0.0026 (J)					0.12	0.052	0.042
2/12/2020	<0.005	0.002 (J)	<0.005	<0.005	<0.005				
3/24/2020		0.002 (J)		<0.005	<0.005				
3/25/2020	<0.005		<0.005				0.099	0.057	0.046
3/26/2020						0.024			
9/22/2020			<0.005	<0.005	<0.005				
9/24/2020	<0.005	0.0016 (J)				0.031			0.046
9/25/2020							0.076	0.046	
2/8/2021				<0.005	<0.005				
2/9/2021			<0.005			0.032	0.073		
2/10/2021	<0.005	<0.005						0.033	0.043
3/2/2021				<0.005	<0.005				
3/3/2021			0.0019 (J)						
3/4/2021	<0.005	<0.005				0.037	0.076	0.037	0.048

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	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (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					
2/4/2015				<0.005					
8/3/2015				<0.005					
2/16/2016				<0.005		-0.005	-0.005		
6/1/2016					0.0011 (1)	<0.005	<0.005		0.005
6/2/2016					0.0011 (J)				<0.005
7/25/2016							<0.005		<0.005
7/26/2016					0.0016 (J)	<0.005			
8/30/2016			0.0017 (J)						
8/31/2016	<0.005			<0.005					
9/1/2016		0.0086 (J)							
9/13/2016						<0.005	<0.005		
9/14/2016								<0.005	
9/15/2016					0.0014 (J)				
9/19/2016									<0.005
11/1/2016						<0.005			<0.005
11/2/2016					<0.005				
11/4/2016							<0.005	<0.005	
11/14/2016			<0.005						
11/15/2016		0.0056 (J)							
11/16/2016	<0.005								
11/28/2016				<0.005					
12/15/2016								<0.005	
1/10/2017					0.0012 (J)				
1/11/2017						<0.005			
1/16/2017							<0.005	<0.005	<0.005
2/21/2017									<0.005
2/22/2017				<0.005					
2/24/2017	<0.005		0.0011 (J)						
2/27/2017		0.0098 (J)							
3/2/2017						<0.005	<0.005		
3/3/2017						0.000	0.000	<0.005	
3/8/2017					<0.005			0.000	
4/26/2017					<0.005				<0.005
4/27/2017					-0.000	<0.005	<0.005		-0.000
4/20/2017						~0.005	~0.005	<0.005	
4/20/2017			<0.005					<0.000	
5/8/2017			<0.005	<0.005					

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bq)
5/9/2017		0.0076 (J)	(-3)	(-3)		(-3)	(-3)	(-3)	
5/10/2017	<0.005								
5/26/2017								<0.005	
6/27/2017						<0.005	<0.005		
6/28/2017								<0.005	
6/30/2017					<0.005				<0.005
7/11/2017	<0.005		<0.005						
7/13/2017		0.0093 (J)							
7/17/2017				<0.005					
10/10/2017			<0.005						
10/11/2017		0.0089 (J)							
10/12/2017	<0.005								
10/16/2017				<0.005					
2/19/2018				<0.005					
3/27/2018					<0.005		<0.005		<0.005
3/28/2018								<0.005	
3/29/2018						<0.005			
4/2/2018			<0.005						
4/4/2018	<0.005	<0.005							
8/6/2018				<0.005					
9/19/2018			<0.005						
9/20/2018	<0.005	0.0081 (J)							
2/25/2019				<0.005					
2/26/2019					<0.005				<0.005
2/27/2019						<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
6/12/2019				<0.005					
8/19/2019				<0.005					
8/20/2019			<0.005						
8/21/2019	<0.005								
9/24/2019						<0.005	<0.005	<0.005	
9/25/2019					<0.005				<0.005
9/26/2019		0.0077 (J)							
10/8/2019				<0.005					
10/9/2019	<0.005								
2/10/2020						<0.005	<0.005		
2/11/2020								<0.005	
2/12/2020					<0.005				<0.005
3/17/2020				<0.005					
3/18/2020					<0.005		<0.005		
3/19/2020						<0.005		<0.005	<0.005
3/25/2020	<0.005	0.0085 (J)							
8/26/2020				<0.005					
8/27/2020			<0.005						
9/22/2020				<0.005					
9/23/2020						<0.005	<0.005	<0.005	
9/24/2020		0.0091 (J)							<0.005
9/25/2020	<0.005				<0.005				
2/9/2021	<0.005	0.0079 (J)							
2/10/2021					<0.005			<0.005	

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
2/11/2021									<0.005
2/12/2021						<0.005	<0.005		
3/1/2021									<0.005
3/2/2021				<0.005	<0.005				
3/3/2021						<0.005	<0.005	<0.005	
3/4/2021	<0.005	0.0058							

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	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		<0.005				
6/2/2016	<0.005					
6/8/2016					<0.005	
7/25/2016		<0.005				
7/26/2016	<0.005					
8/1/2016					<0.005	
9/2/2016						0.0012 (J)
9/14/2016		<0.005				
9/15/2016	<0.005					
9/20/2016					<0.005	
11/1/2016	<0.005	<0.005				
11/8/2016					<0.005	
11/14/2016						<0.005
1/11/2017	<0.005	<0.005				
1/17/2017					<0.005	
2/28/2017						0.0017 (J)
3/1/2017		<0.005				
3/2/2017	<0.005					
3/8/2017	0.000				<0.005	
4/26/2017	<0.005	<0.005			-0.000	
5/2/2017	-0.000	-0.000			<0.005	
5/2/2017					-0.000	0.0018 / I)
6/28/2017	<0.005	<0.005				
0/28/2017	<0.005	<0.005			<0.005	
7/12/2017					<0.005	0.00317.0
//13/2017						0.0031 (J)
9/22/2017						0.0024 (J)
9/29/2017						0.002 (J)
10/6/2017						<0.005
10/12/2017				0.234		
11/21/2017				0.225		
1/11/2018				0.168		
2/20/2018				0.315		
3/28/2018	<0.005	<0.005				
3/30/2018					<0.005	<0.005
4/3/2018				0.28		
6/12/2018					<0.005	
6/13/2018						0.0024 (J)
6/29/2018				0.26		
8/6/2018				0.21		
9/24/2018				0.33		
9/26/2018					<0.005	0.0037 (J)
10/16/2018			<0.005			
2/27/2019	<0.005	<0.005				
3/5/2019					<0.005	
3/6/2019						0.0033 (J)
4/1/2019	<0.005	<0.005				
4/4/2019					<0.005	0.0029 (J)
9/25/2019	<0.005	<0.005				
9/26/2019			<0.005		<0.005	0.0019 (J)
2/11/2020		<0.005				
2/12/2020	<0.005					
3/19/2020	<0.005	<0.005				

Constituent: Selenium (mg/L) Analysis Run 5/6/2021 8:36 PM

3/25/2020	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35 <0.005	PZ-37	YGWC-24SA	YGWC-36A 0.0024 (J)
3/26/2020					<0.005	
9/23/2020	<0.005	<0.005			<0.005	
9/24/2020			<0.005			
9/25/2020				0.32		
10/7/2020						<0.005
2/9/2021				0.28	<0.005	
2/10/2021	<0.005	<0.005	<0.005			<0.005
3/3/2021	<0.005	<0.005			<0.005	
3/4/2021			<0.005	0.27		<0.005

Constituent: Sulfate (mg/L) Analysis Run 5/6/2021 8:36 PM

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (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
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
1/11/2017					5.2	<1	1.7		
1/13/2017								<1	4.3
3/1/2017						1.8	<1		
3/2/2017					5				
3/6/2017								<1	4.5
4/26/2017						1.6	1.9	<1	4.9
5/2/2017					5				
6/28/2017						<1	<1		
6/29/2017					5.2			<1	5.5
10/3/2017									5.8
10/4/2017					5.3		1.7	<1	
10/5/2017						1.6			
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)		
9/25/2018					6.1	1	1.5	0.13 (J)	7
10/16/2018	83.7								
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	46.6					0.64 (J)	1		
3/24/2020					5.4	<1	0.99 (J)	<1	3
3/25/2020	11.7								
9/23/2020		9.1	152		5.1	0.53 (J)	1.1		
9/24/2020	13.1			438				<1	3.6
3/3/2021	16.9	7.9	91.7		5.2	<1	1	<1	
3/4/2021				340					4.5

Constituent: Sulfate (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			8	20	1.9				
6/7/2016						56			
7/26/2016			7.7	20	1.8				
7/28/2016						57			
8/30/2016									980
9/14/2016			7.5	19	1.8				
9/20/2016						68			
11/2/2016			8.2	20					
11/4/2016					2				
11/8/2016						79			
11/16/2016									940
1/12/2017				19	19				
1/13/2017			8 1	10	1.0				
1/16/2017			0.1			72			
2/27/2017						72			940
3/6/2017			8						540
3/7/2017			0	20	2.1				
3/7/2017				20	2.1	60			
5/9/2017			0.4	20		69			
5/1/2017			8.4	20	2	<u></u>			
5/2/2017					2	60			1000
5/10/2017									1200
6/27/2017				18	2.1				
6/29/2017			9.2						
7/10/2017						57			
7/11/2017									1300
10/3/2017				16	2.3				
10/5/2017			9.6						
10/11/2017	20					52			
10/12/2017		17					940	400	1100
11/20/2017	24	71					980		
11/21/2017								430	
1/10/2018		66							
1/11/2018	23							390	
1/12/2018							880		
2/19/2018		57.2						414	
2/20/2018	20.6						905		
4/3/2018	24.5	49.4					872	406	
4/4/2018									1020
6/6/2018				8.3					
6/7/2018			8.5		2				
6/12/2018						41.4			
6/27/2018								357	
6/28/2018	22	43.8					869		
8/7/2018	20.7	40.5					879	346	
9/20/2018									810
9/24/2018	21.2	39.7					872	358	
9/26/2018			10.2	7.9	2.3				
9/27/2018						39.6			
3/26/2019		34.3							
3/27/2019	17.7						851		831
3/28/2019							50.	258	
4/3/2019			8.5	7	21			200	
-1012013			5.5	,	£.1				

Constituent: Sulfate (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/4/2019						27.9			
9/24/2019				5.5	2.4				
9/25/2019			8.5						
9/27/2019						30.3			
10/9/2019	15	27.9					708	263	725
3/24/2020		25.2		5.9	2.1				
3/25/2020	14.3		8.8				483	214	642
3/26/2020						36.5			
9/22/2020			8.2	5.5	2.1				
9/24/2020	11.7	22.9				52.5			579
9/25/2020							414	175	
3/2/2021				2.6	2.3				
3/3/2021			7.8						
3/4/2021	12	21.5				61.7 (M1)	356	117	537

Constituent: Sulfate (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016						5	4.2		
6/2/2016					6.6				1.3
//25/2016							3.7		1.2
7/26/2016					6.1	5.4			
8/30/2016			160						
8/31/2016	34			29					
9/1/2016		95							
9/13/2016						2.9	5.2		
9/14/2016								9.4	
9/15/2016					6.1				
9/19/2016									1.2
11/1/2016						3.9			1.3
11/2/2016					6.3				
11/4/2016							5	13	
11/14/2016			150						
11/15/2016		94							
11/16/2016	240								
11/28/2016				36					
12/15/2016								1.8	
1/10/2017					5.9				
1/11/2017						3.7			
1/16/2017							7.9	11	<1
2/21/2017									1.4
2/22/2017				43					
2/24/2017	89		120						
2/27/2017		84							
3/2/2017						4.6	7.4		
3/3/2017								8.8	
3/8/2017					7				
4/26/2017					7				1.4
4/27/2017						5.2	7.4		
4/28/2017								10	
5/8/2017			120	60					
5/9/2017		91	120						
5/10/2017	100	51							
5/26/2017	100							12	
6/27/2017						5 9	64	12	
6/28/2017						5.5	0.4	11	
6/30/2017					6.5				~1
7/11/2017	110		110		0.5				
7/11/2017	110	00	110						
7/13/2017		00		62					
10/2/2017				03		<u> </u>	5.0	7.0	
10/3/2017						0.0	5.9	7.9	
10/4/2017					7.0				1.4
10/5/2017			00		7.9				
10/10/2017			93						
10/11/2017		86							
10/12/2017	120								
10/16/2017				62					
2/19/2018				64.6					
4/2/2018			88.8						
4/4/2018	160	76.5							

Constituent: Sulfate (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/5/2018						6.4			
6/6/2018							4.4		
6/7/2018								8.8	
6/8/2018					6.4				
6/11/2018									1.1
8/6/2018				42.1					
9/19/2018			75						
9/20/2018	247	84.1							
10/1/2018					6.8	5.6	4	9.1	
10/2/2018									1
2/25/2019				42.1					
3/27/2019			65.9						
3/28/2019	181	82.8				8	4.3		
3/29/2019					7.3			9	
4/1/2019									0.96 (J)
6/12/2019				83.4					
9/24/2019						5.3	4.3	9.1	
9/25/2019					6.6				0.81 (J)
9/26/2019		80							
10/8/2019			52.3	128					
10/9/2019	279								
3/17/2020			71.6	98.6					
3/18/2020					8.1		5.3		
3/19/2020						10		12.4	1.6
3/25/2020	164	76.1							
9/22/2020			51.5	145					
9/23/2020						8.1	3.4	11.8	
9/24/2020		77							0.69 (J)
9/25/2020	281				6.1				
3/1/2021			51.6						0.88 (J)
3/2/2021				156	6				
3/3/2021						9	4.4	10.6	
3/4/2021	328	75.1							

Constituent: Sulfate (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		12				
6/2/2016	5.8					
6/8/2016					<1	
7/25/2016		8.4				
7/26/2016	6.7					
8/1/2016					1.1	
9/2/2016						72
9/14/2016		8.6				
9/15/2016	6					
9/20/2016					0.38 (J)	
11/1/2016	4.9	8.9				
11/8/2016					0.39 (J)	
11/14/2016						110
1/11/2017	4.5	8.6				
1/17/2017					<1	
2/28/2017						110
3/1/2017		93				
3/2/2017	11	0.0				
3/2/2017					0.20 ( 1)	
4/26/2017	<b>5</b> 1	11			0.29 (3)	
4/20/2017	5.1				0.20 ( ))	
5/2/2017					0.29 (J)	100
5/9/2017	- /	10				130
6/28/2017	5.4	12				
7/7/2017					0.37 (J)	
7/13/2017						140
9/22/2017						160
9/29/2017						160
10/4/2017	6.2	12				
10/5/2017					<1	
10/6/2017						160
10/11/2017						150
10/12/2017				650		
11/21/2017				700		
1/11/2018				590		
2/20/2018				677		
4/3/2018				615		
6/7/2018	6.7					
6/8/2018		9.6				
6/12/2018					0.35 (J)	
6/13/2018						144
6/29/2018				634		
8/6/2018				623		
9/24/2018				674		
9/26/2018					0.28 (1)	160
10/1/2018	71	9 1			0.20 (0)	
10/16/2018		0.1	34.2			
1/1/2019	7.2	8.5	5-T.L			
4/4/2010	1.2	0.0			0.29 ( !)	110
4/4/2013	7	13.9			0.29 (J)	110
9/20/2019	/	13.0	14.2		0.22 (1)	94.9
9/20/2019	2	10.0	14.3		0.23 (J)	04.0
3/19/2020	9	12.9	00.4			50.0
3/25/2020			36.1			58.8

Constituent: Sulfate (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
3/26/2020					<1	
9/23/2020	6.9	16.8			<1	
9/24/2020			7.2			
9/25/2020				563		
10/7/2020						18.2
3/3/2021	7	9.6			<1	
3/4/2021			8.8	485		6.3

Constituent: Thallium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (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
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
1/11/2017					<0.001	<0.001	<0.001		
1/13/2017								<0.001	<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				
6/28/2017						<0.001	<0.001		
6/29/2017					<0.001			<0.001	<0.001
3/28/2018					<0.001	<0.001	<0.001		
3/29/2018								<0.001	<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	
9/24/2019									<0.001
9/25/2019					<0.001			<0.001	
9/26/2019	<0.001					<0.001	<0.001		
2/11/2020					<0.001	<0.001	<0.001		
2/12/2020								<0.001	<0.001
3/24/2020					<0.001	<0.001	<0.001	<0.001	<0.001
3/25/2020	<0.001								
9/23/2020		<0.001	<0.001		<0.001	<0.001	<0.001		
9/24/2020	<0.001			<0.001				<0.001	<0.001
2/9/2021	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001

Constituent: Thallium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.001	<0.001	< 0.001				
6/7/2016						<0.001			
7/26/2016			<0.001	<0.001	<0.001				
7/28/2016						<0.001			
8/30/2016									<0.001
9/14/2016			<0.001	<0.001	<0.001				
9/20/2016						<0.001			
11/2/2016			<0.001	<0.001					
11/4/2016					<0.001				
11/8/2016						<0.001			
11/16/2016									<0.001
1/12/2017				<0.001	<0.001				
1/13/2017			<0.001						
1/16/2017						<0.001			
2/27/2017									<0.001
3/6/2017			<0.001						
3/7/2017				<0.001	<0.001				
3/9/2017						<0.001			
5/1/2017			<0.001	<0.001					
5/2/2017					<0.001	<0.001			
5/10/2017									<0.001
6/27/2017				<0.001	<0.001				
6/29/2017			<0.001						
7/10/2017						<0.001			
7/11/2017									<0.001
10/11/2017	<0.001								
10/12/2017		<0.001					<0.001	<0.001	<0.001
11/20/2017	<0.001	<0.001					<0.001		
11/21/2017								<0.001	
1/10/2018		<0.001							
1/11/2018	<0.001							<0.001	
1/12/2018							<0.001		
2/19/2018		<0.001						<0.001	
2/20/2018	<0.001						<0.001		
3/29/2018			<0.001	<0.001	<0.001				
3/30/2018						<0.001			
4/3/2018	<0.001	<0.001					<0.001	<0.001	
4/4/2018									<0.001
6/2//2018								<0.001	
6/28/2018	<0.001	< 0.001					<0.001	.0.001	
8/7/2018	<0.001	<0.001					<0.001	<0.001	-0.001
9/20/2018	-0.001	-0.001					-0.001	-0.001	<0.001
9/24/2018	<0.001	<0.001	-0.001	-0.001	-0.001		<0.001	<0.001	
3/4/2019			<0.001	<0.001	<0.001	<0.001			
JUIZU 19			<0.001	<0.001	<0.001	<b>~0.001</b>			
4/3/2019			~U.UU I	<u>∼0.001</u>	<b>~</b> 0.001	<0.001			
4/4/2019 8/21/2010	<0.001	<0.001				<b>~0.001</b>			
8/22/2010	<u>∼0.001</u>	<u>~0.001</u>					<0.001	<0.001	<0.001
9/24/2019				<0.001	<0.001		-0.001	-0.001	-9.001
9/25/2019			<0.001	-0.001	·0.001				
9/27/2019			-0.001			<0.001			

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Constituent: Thallium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
2/12/2020	<0.001	<0.001	<0.001	<0.001	<0.001				
3/24/2020		<0.001		<0.001	<0.001				
3/25/2020	<0.001		<0.001				<0.001	<0.001	<0.001
3/26/2020						<0.001			
9/22/2020			<0.001	<0.001	<0.001				
9/24/2020	<0.001	<0.001				<0.001			<0.001
9/25/2020							<0.001	<0.001	
2/8/2021				<0.001	<0.001				
2/9/2021			<0.001			<0.001	<0.001		
2/10/2021	<0.001	<0.001						<0.001	<0.001

Constituent: Thallium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (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					
2/0/2013				<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					
6/1/2016						<0.001	<0.001		
6/2/2016					<0.001				<0.001
7/25/2016							<0.001		<0.001
7/26/2016					<0.001	<0.001			
8/30/2016			<0.001						
8/31/2016	<0.001			<0.001					
9/1/2016		<0.001							
9/13/2016						<0.001	<0.001		
9/14/2016								<0.001	
9/15/2016					<0.001				
9/19/2016									<0.001
11/1/2016						<0.001			<0.001
11/2/2016					<0.001				
11/4/2016							<0.001	<0.001	
11/14/2016			<0.001						
11/15/2016		<0.001							
11/16/2016	<0.001								
11/28/2016				<0.001					
12/15/2016								<0.001	
1/10/2017					<0.001				
1/11/2017						<0.001			
1/16/2017							<0.001	<0.001	<0.001
2/21/2017									<0.001
2/22/2017				<0.001					
2/24/2017	<0.001		<0.001						
2/27/2017		9E-05 (J)							
3/2/2017		02 00 (0)				<0.001	<0.001		
3/3/2017								<0.001	
3/8/2017					<0.001			-0.001	
1/26/2017					<0.001				<0.001
4/27/2017					-0.001	<0.001	<0.001		-0.001
1/28/2017						-0.001	-0.001	<0.001	
5/8/2017			<0.001	6E 05 (1)				-0.001	
5/0/2017		~0.001	~U.UU I	0⊑-00 (J)					
0/9/2017		<b>\U.UU</b>							

### Constituent: Thallium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
5/10/2017	<0.001								
5/26/2017								<0.001	
6/27/2017						<0.001	<0.001		
6/28/2017								<0.001	
6/30/2017					<0.001				<0.001
7/11/2017	<0.001		<0.001						
7/13/2017		<0.001							
7/17/2017				6E-05 (J)					
10/10/2017			<0.001						
10/11/2017		<0.001							
10/12/2017	<0.001								
10/16/2017				7E-05 (J)					
2/19/2018				<0.001					
3/27/2018					<0.001		<0.001		<0.001
3/28/2018								<0.001	
3/29/2018						<0.001			
4/2/2018			<0.001						
4/4/2018	<0.001	<0.001							
8/6/2018				<0.001					
9/19/2018			<0.001						
9/20/2018	<0.001	<0.001							
2/25/2019				<0.001					
2/26/2019					<0.001				<0.001
2/27/2019						<0.001	<0.001	<0.001	
6/12/2019				<0.001					
8/19/2019				5.5E-05 (J)					
8/20/2019			5.8E-05 (J)						
8/21/2019	<0.001								
9/26/2019		<0.001							
10/8/2019			8.4E-05 (J)	<0.001					
2/10/2020						<0.001	5.5E-05 (J)		
2/11/2020								<0.001	
2/12/2020					8.9E-05 (J)				<0.001
3/17/2020			<0.001	<0.001					
3/18/2020					<0.001		<0.001		
3/19/2020						<0.001		<0.001	<0.001
3/25/2020	<0.001	<0.001							
8/26/2020				<0.001					
8/27/2020			<0.001						
9/22/2020				<0.001					
9/23/2020						<0.001	<0.001	<0.001	
9/24/2020		<0.001							<0.001
9/25/2020	<0.001				<0.001				
2/9/2021	<0.001	<0.001							
2/10/2021					<0.001			<0.001	
2/11/2021									<0.001
2/12/2021						<0.001	<0.001		
3/2/2021				<0.001					

### Constituent: Thallium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		<0.001				
6/2/2016	<0.001					
6/8/2016					<0.001	
7/25/2016		<0.001				
7/26/2016	0.0001 (J)					
8/1/2016					<0.001	
9/2/2016						<0.001
9/14/2016		<0.001				
9/15/2016	<0.001					
9/20/2016					<0.001	
11/1/2016	<0.001	<0.001				
11/8/2016					<0.001	
11/14/2016						<0.001
1/11/2017	<0.001	<0.001				
1/17/2017					<0.001	
2/28/2017						<0.001
3/1/2017		<0.001				
3/2/2017	<0.001					
3/8/2017					<0.001	
4/26/2017	<0.001	<0.001				
5/2/2017					<0.001	
5/9/2017						<0.001
6/28/2017	<0.001	<0.001				
7/7/2017					<0.001	
7/13/2017						<0.001
9/22/2017						<0.001
9/29/2017						<0.001
10/6/2017						<0.001
10/12/2017				<0.001		
11/21/2017				<0.001		
1/11/2018				<0.001		
2/20/2018				<0.001		
3/28/2018	<0.001	<0.001				
3/30/2018					<0.001	<0.001
4/3/2018				<0.001		
6/29/2018				<0.001		
8/6/2018				<0.001		
9/24/2018				<0.001		
2/27/2019	<0.001	<0.001				
3/5/2019					<0.001	
3/6/2019						<0.001
4/4/2019					<0.001	<0.001
9/26/2019			<0.001		<0.001	<0.001
2/11/2020		<0.001				
2/12/2020	<0.001					
3/19/2020	<0.001	<0.001				
3/25/2020			<0.001			<0.001
3/26/2020					<0.001	
9/23/2020	<0.001	0.00016 (J)			<0.001	
9/24/2020			<0.001			
9/25/2020				<0.001		
10/7/2020						<0.001

Constituent: Thallium (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
2/9/2021				<0.001	<0.001	
2/10/2021	<0.001	<0.001	<0.001			<0.001

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/6/2021 8:36 PM

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)
6/6/2016						120	58		
6/7/2016					28			38	60
7/27/2016					74	94	35	74	
7/28/2016									81
9/16/2016					67		35		
9/19/2016						92		45	68
11/2/2016								53	
11/3/2016					41	104	48		61
1/11/2017					104	133	95		
1/13/2017								46	76
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				
6/28/2017						98	45		
6/29/2017					53			68	94
10/3/2017									149
10/4/2017					61		45	54	
10/5/2017						104			
6/5/2018									109
6/6/2018								79	
6/7/2018						68			
6/11/2018					70		74		
9/25/2018					86	109	63	73	122
10/16/2018	209								
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		
3/24/2020					71	91	59	76	117
3/25/2020	139								
9/23/2020		62	329		99	103	81		
9/24/2020	106			788				69	113
3/3/2021	121	40	245		57	95	37	53	
3/4/2021				604					110

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			96	160	66				
6/7/2016						130			
7/26/2016			92	177	78				
7/28/2016						119			
8/30/2016									1650
9/14/2016			102	187	73				
9/20/2016						132			
11/2/2016			115	181					
11/4/2016					75				
11/8/2016						146			
11/16/2016									1420
1/12/2017				202	86				
1/13/2017			67	202					
1/16/2017			0.			194			
2/27/2017						104			1640
3/6/2017			150						1040
3/0/2017			155	257	108				
3/7/2017				237	100	200			
5/9/2017			107	165		200			
5/1/2017			107	100	102	221			
5/2/2017					103	221			1000
5/10/2017				100	70				1630
6/2//2017				189	/3				
6/29/2017			79						
7/10/2017						123			
7/11/2017									1800
10/3/2017				170	89				
10/5/2017			95						
10/11/2017	68					100			
10/12/2017		74					1360	636	1600
11/20/2017	139	179					1390		
11/21/2017								706	
1/10/2018		140							
1/11/2018	153							701	
1/12/2018							1400		
2/19/2018		119						630	
2/20/2018	87						1300		
4/3/2018	85	106					1390	660	
4/4/2018									1520
6/6/2018				151					
6/7/2018			90		142				
6/12/2018						115			
6/27/2018								575	
6/28/2018	88	112					1310		
8/7/2018	89	103					1340	574	
9/20/2018									1240
9/24/2018	82	107					1400	588	
9/26/2018			116	144	86				
9/27/2018						105			
3/26/2019		90							
3/27/2019	75	-					1190		1100
3/28/2019	-							372	
4/3/2019			111	142	83			572	
-10/2010				174					

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/4/2019						85			
9/24/2019				129	79				
9/25/2019			117						
9/27/2019						96			
10/9/2019	119	98					1100	440	1170
3/24/2020		84		139	68				
3/25/2020	158		146				883	428	1200
3/26/2020						110			
9/22/2020			83	104	75				
9/24/2020	170	77				129			1060
9/25/2020							664	307	
3/2/2021				52	67				
3/3/2021			80						
3/4/2021	168	57				96	600	224	501

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016						120	54		
6/2/2016					46				36
7/25/2016							48		50
7/26/2016					54	94			
8/30/2016			319						
8/31/2016	80			209					
9/1/2016		228							
9/13/2016						105	67		
9/14/2016								152	
9/15/2016					54				
9/19/2016									35
11/1/2016						44			<25
11/2/2016					71				
11/4/2016							60	148	
11/1/2016			280				00	140	
11/14/2010		211	200						
11/15/2010	110	211							
11/10/2010	112			100					
11/28/2016				102					
12/15/2016								191	
1/10/2017					45				
1/11/2017						107			
1/16/2017							65	180	47
2/21/2017									<25
2/22/2017				164					
2/24/2017	147		162						
2/27/2017		382							
3/2/2017						98	61		
3/3/2017								156	
3/8/2017					178				
4/26/2017					52				55
4/27/2017						116	31		
4/28/2017								130	
5/8/2017			194	145					
5/9/2017		154							
5/10/2017	203								
5/26/2017								223	
6/27/2017						89	12	220	
6/28/2017						00	72	166	
6/20/2017					45			100	40
7/11/2017	228		103		73				74
7/11/2017	230	102	190						
7/13/2017		192		195					
//1//201/				691		110	50	450	
10/3/2017						119	58	153	
10/4/2017									31
10/5/2017					40				
10/10/2017			175						
10/11/2017		177							
10/12/2017	287								
10/16/2017				218					
2/19/2018				173					
4/0/0010									
4/2/2018			192						

### Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/5/2018						127			
6/6/2018							96		
6/7/2018								146	
6/8/2018					114				
6/11/2018									59
8/6/2018				158					
9/19/2018			186						
9/20/2018	434	186							
10/1/2018					50	117	60	155	
10/2/2018									57
2/25/2019				92					
3/27/2019			170						
3/28/2019	323	164				87	87		
3/29/2019					63			150	
4/1/2019									54
6/12/2019				226					
9/24/2019						124	54	146	
9/25/2019					64				51
9/26/2019		192							
10/8/2019			172	276					
10/9/2019	501								
3/17/2020			165	185					
3/18/2020					57		35		
3/19/2020						116		148	47
3/25/2020	352	130							
9/22/2020			141	281					
9/23/2020						108	15	161	
9/24/2020		187							51
9/25/2020	494				54				
3/1/2021			145						23
3/2/2021				296	67				
3/3/2021						99	39	138	
3/4/2021	592	145							

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/6/2021 8:36 PM

			DZ 25	D7 27	YOWC 3464	
011/2010	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-245A	YGWC-30A
6/1/2016	100	150				
6/2/2016	130					
6/8/2016					66	
//25/2016		135				
7/26/2016	141					
8/1/2016					56	
9/2/2016						243
9/14/2016		127				
9/15/2016	153					
9/20/2016					53	
11/1/2016	92	75				
11/8/2016					58	
11/14/2016						272
1/11/2017	159	148				
1/17/2017					56	
2/28/2017						306
3/1/2017		182				
3/2/2017	117					
3/8/2017					192	
4/26/2017	181	92				
5/2/2017					113	
5/9/2017						303
6/28/2017	169	126				
7/7/2017					46	
7/13/2017						282
9/22/2017						309
9/29/2017						273
10/4/2017	141	147				
10/5/2017					48	
10/6/2017						287
10/11/2017						264
10/12/2017				1060		
11/21/2017				1100		
1/11/2018				1020		
2/20/2018				1050		
4/3/2018				1080		
6/7/2018	95					
6/8/2018		158				
6/12/2018					79	
6/13/2018						292
6/29/2018				979		
8/6/2018				1020		
9/24/2018				1090		
9/26/2018					59	277
10/1/2018	165	138				
10/16/2018			123			
4/1/2019	149	19 (J)				
4/4/2019					63	240
9/25/2019	157	159				
9/26/2019					81	198
3/19/2020	146	148				
3/25/2020			84			164

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/6/2021 8:36 PM

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
3/26/2020					67	
9/23/2020	157	155			87	
9/24/2020			100			
9/25/2020				878		
10/7/2020						137
3/3/2021	137	111			70	
3/4/2021			59	856		69

# FIGURE B.

# Box & Whiskers Plot



Constituent: Antimony Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Box & Whiskers Plot

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Antimony Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6







Constituent: Antimony Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Constituent: Antimony Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

### Box & Whiskers Plot



Constituent: Arsenic Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Arsenic Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Arsenic Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6







Constituent: Arsenic Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

### Box & Whiskers Plot



Constituent: Barium Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Box & Whiskers Plot

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Constituent: Barium Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6







Constituent: Barium Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Constituent: Barium Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Box & Whiskers Plot

Constituent: Beryllium Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Beryllium Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Beryllium Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6







Constituent: Beryllium Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

## 

Box & Whiskers Plot

Constituent: Boron Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





Constituent: Boron Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Boron Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Box & Whiskers Plot



Constituent: Boron Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

### Box & Whiskers Plot



Constituent: Cadmium Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Cadmium Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Cadmium Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6







Constituent: Cadmium Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

### Box & Whiskers Plot

# $\vec{D}_{E}^{200} +$

Box & Whiskers Plot

Constituent: Calcium Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Calcium Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Calcium Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6







Constituent: Calcium Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6


# $\vec{D}_{2}$

Box & Whiskers Plot

Constituent: Chloride Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Box & Whiskers Plot

Constituent: Chloride Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Chloride Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Box & Whiskers Plot



Constituent: Chloride Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

#### Box & Whiskers Plot



Constituent: Chromium Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



Constituent: Chromium Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



Constituent: Chromium Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Box & Whiskers Plot



Constituent: Chromium Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### Box & Whiskers Plot

# 

Box & Whiskers Plot

Constituent: Cobalt Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Cobalt Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Cobalt Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG





Constituent: Cobalt Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### Box & Whiskers Plot

#### Box & Whiskers Plot



Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6







Constituent: Combined Radium 226 + 228 Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Constituent: Combined Radium 226 + 228 Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

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Box & Whiskers Plot

Constituent: Fluoride Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





Constituent: Fluoride Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Fluoride Analysis Run 5/6/2021 8:37 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6







Constituent: Fluoride Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Box & Whiskers Plot

Constituent: Lead Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Box & Whiskers Plot

Constituent: Lead Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Lead Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6







Constituent: Lead Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Box & Whiskers Plot

Constituent: Lithium Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Lithium Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Lithium Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6







Constituent: Lithium Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### Box & Whiskers Plot

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Box & Whiskers Plot

Constituent: Mercury Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Mercury Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Mercury Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6







Constituent: Mercury Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### Box & Whiskers Plot

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG



Box & Whiskers Plot



Box & Whiskers Plot

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Constituent: Molybdenum Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Constituent: Molybdenum Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG



Box & Whiskers Plot



Box & Whiskers Plot

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



Constituent: pH Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: pH Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Constituent: pH Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Constituent: pH Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

mg/L

# 

Box & Whiskers Plot

Constituent: Selenium Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Selenium Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Box & Whiskers Plot



Constituent: Selenium Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



# 

Box & Whiskers Plot

Constituent: Sulfate Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Sulfate Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Sulfate Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Box & Whiskers Plot



Constituent: Sulfate Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### Box & Whiskers Plot



Box & Whiskers Plot

Constituent: Thallium Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Box & Whiskers Plot

Constituent: Thallium Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Box & Whiskers Plot



Constituent: Thallium Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6







Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:38 PM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



# FIGURE C.

			Outlie	er Summary	
		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6	Printed 5/6/2021, 8:40 PM
	GWA-2 Cobalt (mg/L) VGWA-47 pH (S	<u>.</u> U.)			
/2/2018	6.3 (O)				
8/26/2020	0.2 (O)				
9/22/2020	0.16 (O)				
3/2/2021	0.21 (O)				

# FIGURE D.

# Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 8:46 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	<u>Sig.</u> Bg N	<u>Bg Mean</u>	Std. Dev.	<u>%NDs</u> ND	Adj. <u>Trar</u>	nsform Alpha		Method
Boron (mg/L)	YGWC-23S	0.16	n/a	3/4/2021	1.2	Yes 293	n/a	n/a	45.73 n/a	n/a	0.000	04917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-38	0.16	n/a	3/4/2021	6.4	Yes 293	n/a	n/a	45.73 n/a	n/a	0.000	04917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-41	0.16	n/a	3/4/2021	4	Yes 293	n/a	n/a	45.73 n/a	n/a	0.000	04917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-42	0.16	n/a	3/4/2021	14.8	Yes 293	n/a	n/a	45.73 n/a	n/a	0.000	04917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-43	0.16	n/a	3/4/2021	3.6	Yes 293	n/a	n/a	45.73 n/a	n/a	0.000	04917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-38	37	n/a	3/4/2021	87	Yes 293	n/a	n/a	1.024 n/a	n/a	0.000	04917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-42	37	n/a	3/4/2021	90.7	Yes 293	n/a	n/a	1.024 n/a	n/a	0.000	04917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-24SA	7.9	n/a	3/3/2021	8.6	Yes 293	n/a	n/a	0 n/a	n/a	0.000	04917	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-41	8.39	4.86	3/4/2021	4.69	Yes 373	n/a	n/a	0 n/a	n/a	0.000	09834	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-38	160	n/a	3/4/2021	356	Yes 293	n/a	n/a	6.143 n/a	n/a	0.000	04917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-42	160	n/a	3/4/2021	537	Yes 293	n/a	n/a	6.143 n/a	n/a	0.000	04917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-43	160	n/a	3/4/2021	328	Yes 293	n/a	n/a	6.143 n/a	n/a	0.000	04917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-38	221.5	n/a	3/4/2021	600	Yes 293	10.01	2.574	0.6826 Non	e sqrt	(x) 0.000	9403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-41	221.5	n/a	3/4/2021	224	Yes 293	10.01	2.574	0.6826 Non	e sqrt	(x) 0.000	9403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-42	221.5	n/a	3/4/2021	501	Yes 293	10.01	2.574	0.6826 Non	e sqrt	(x) 0.000	9403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-43	221.5	n/a	3/4/2021	592	Yes 293	10.01	2.574	0.6826 Non	e sqrt	(x) 0.000	9403	Param Inter 1 of 2

# Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 8:46 PM

Constituent	Well	Upper Lim	Lower Lim.	Date	Observ.	Sig.	<u>Bg N</u>	<u>Bg Mean</u>	Std. Dev.	<u>%NDs</u>	<u>ND Adj.</u>	Transforr	n <u>Alpha</u>	Method
Boron (mg/L)	YGWC-23S	0.16	n/a	3/4/2021	1.2	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-38	0.16	n/a	3/4/2021	6.4	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-41	0.16	n/a	3/4/2021	4	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-42	0.16	n/a	3/4/2021	14.8	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-43	0.16	n/a	3/4/2021	3.6	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-49	0.16	n/a	3/4/2021	0.04ND	No	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-24SA	0.16	n/a	3/3/2021	0.04ND	No	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-36A	0.16	n/a	3/4/2021	0.0088J	No	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-23S	37	n/a	3/4/2021	10.2	No	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-38	37	n/a	3/4/2021	87	Yes	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-41	37	n/a	3/4/2021	16.4	No	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-42	37	n/a	3/4/2021	90.7	Yes	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-43	37	n/a	3/4/2021	32.2	No	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-49	37	n/a	3/4/2021	13	No	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-24SA	37	n/a	3/3/2021	2.4	No	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-36A	37	n/a	3/4/2021	5.6	No	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-23S	7.9	n/a	3/4/2021	1.8	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-38	7.9	n/a	3/4/2021	3.9	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-41	7.9	n/a	3/4/2021	3.4	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-42	7.9	n/a	3/4/2021	2.7	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-43	7.9	n/a	3/4/2021	2.1	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-49	7.9	n/a	3/4/2021	4.1	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-24SA	7.9	n/a	3/3/2021	8.6	Yes	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-36A	7.9	n/a	3/4/2021	6.6	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-23S	0.68	n/a	3/4/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-38	0.68	n/a	3/4/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-41	0.68	n/a	3/4/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-42	0.68	n/a	3/4/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-43	0.68	n/a	3/4/2021	0.063J	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-49	0.68	n/a	3/4/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-24SA	0.68	n/a	3/3/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-36A	0.68	n/a	3/4/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-23S	8.39	4.86	3/4/2021	5.44	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-38	8.39	4.86	3/4/2021	5.01	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
рН (S.U.)	YGWC-41	8.39	4.86	3/4/2021	4.69	Yes	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-42	8.39	4.86	3/4/2021	5.59	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-43	8.39	4.86	3/4/2021	5.88	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-49	8.39	4.86	3/4/2021	5.88	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-24SA	8.39	4.86	3/3/2021	5.7	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-36A	8.39	4.86	3/4/2021	5.67	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-23S	160	n/a	3/4/2021	61.7	No	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-38	160	n/a	3/4/2021	356	Yes	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-41	160	n/a	3/4/2021	117	No	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-42	160	n/a	3/4/2021	537	Yes	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-43	160	n/a	3/4/2021	328	Yes	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-49	160	n/a	3/4/2021	75.1	No	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-24SA	160	n/a	3/3/2021	0.5ND	No	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-36A	160	n/a	3/4/2021	6.3	No	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-23S	221.5	n/a	3/4/2021	96	No	293	10.01	2.574	0.682	6 None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-38	221.5	n/a	3/4/2021	600	Yes	293	10.01	2.574	0.682	6 None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-41	221.5	n/a	3/4/2021	224	Yes	293	10.01	2.574	0.682	6 None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-42	221.5	n/a	3/4/2021	501	Yes	293	10.01	2.574	0.682	6 None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-43	221.5	n/a	3/4/2021	592	Yes	293	10.01	2.574	0.682	6 None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-49	221.5	n/a	3/4/2021	145	No	293	10.01	2.574	0.682	6 None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-24SA	221.5	n/a	3/3/2021	70	No	293	10.01	2.574	0.682	6 None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-36A	221.5	n/a	3/4/2021	69	No	293	10.01	2.574	0.682	6 None	sqrt(x)	0.0009403	Param Inter 1 of 2

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

Exceeds Limit: YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43

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 293 background values. 45.73% NDs. Annual perconstituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

> Constituent: Boron Analysis Run 5/6/2021 8:43 PM View: Appendix III Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

Exceeds Limit: YGWC-38, YGWC-42

Hollow symbols indicate censored values

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 293 background values. 1.024% NDs. Annual perconstituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

YGWC-38

YGWC-41

YGWC-42

YGWC-43

YGWC-49

YGWC-36A

Limit = 37

Constituent: Calcium Analysis Run 5/6/2021 8:43 PM View: Appendix III

Prediction Limit

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG

Exceeds Limit: YGWC-24SA

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 293 background values. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.0004917 (1 of 2). Comparing 8 points to limit. Sanitas<sup>14</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values. Within Limit Prediction Limit Interwell Non-parametric 0.7 0.56 0.42



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 362 background values. 68.51% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.0004917 (1 of 2). Comparing 8 points to limit.



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 373 background values. Annual perconstituent alpha = 0.001573. Individual comparison alpha = 0.00009834 (1 of 2). Comparing 8 points to limit.



Constituent: Sulfate Analysis Run 5/6/2021 8:43 PM View: Appendix III

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

YGWC-43

mg/L

Exceeds Limit: YGWC-38, YGWC-42,

2000

1600

1200

800

400

0

6/7/16

5/19/17

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

4/30/18 4/11/19 3/22/20

to be non-normal at the 0.01 alpha level. Limit is highest of 293 background values. 6.143% NDs. Annual per-

constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data

Prediction Limit

Interwell Non-parametric

.

V

3/4/21

YGWC-38

YGWC-41

YGWC-42

YGWC-43

YGWC-49

YGWC-36A

Limit = 160

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



Background Data Summary (based on square root transformation): Mean=10.01, Std. Dev.=2.574, n=293, 0.6826% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 12.97, critical = 14.07. Kappa = 1.894 (c=7, w=8, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.0009403. Comparing 8 points to limit.

Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:43 PM View: Appendix III

## **Prediction Limit**

Constituent: Boron (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (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									
7/25/2016	<0.04		<0.04			/ N	<0.04		
7/26/2016		0.0055 (J)		0.0052 (J)	0.0177 (J)	0.0097 (J)		<0.04	0.0047 (J)
//2//2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		<0.04	<0.04						
9/14/2016	<0.04			0.0071 (J)		<b>.</b>		0.01 (J)	<0.04
9/15/2016					0.0214 (J)	0.0102 (J)			
9/16/2016									
9/19/2016							<0.04		
9/20/2016									
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	
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017					0.0198 (J)				
1/11/2017	<0.04	0.0074 (J)				<0.04			
1/12/2017				0.0076 (J)				<0.04	
1/13/2017									<0.04
1/16/2017			<0.04				<0.04		
1/1//201/									
2/21/2017							<0.04		
2/22/2017									
2/24/2017									
2/2//2017									
2/28/2017									
3/1/2017	<0.04	0.000 (1)				0.0004 (1)			
3/2/2017		U.UU8 (J)	<0.04			0.0084 (J)			
3/3/2017									
3/6/2017				0.0000 ( 1)				-0.04	<0.04
3/7/2017				0.0089 (J)	0.0465.7%			<0.04	
3/8/2017					0.0189 (J)				
3/9/2017					0.0101 ( ))				
4/26/2017	<0.04	0.0000 ( "			0.0161 (J)	<0.04	<0.04		
4/2//2017		0.0066 (J)	<0.04						
4/28/2017				0.0001 (**					
5/1/2017				0.0061 (J)					<0.04

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)
5/2/2017								<0.04	
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		0.0087 ( 1)	0.006 ( 1)	0.0079 ( 1)				<0.04	
0/27/2017	-0.04	0.0087 (J)	0.000 (3)	0.0079(3)		-0.04		<0.04	
6/28/2017	<0.04					<0.04			
6/29/2017									<0.04
6/30/2017					0.0173 (J)		<0.04		
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		0 0072 (.1)	0 0071 (.1)	0 0094 (.1)				<0.04	
10/4/2017	<0.04	0.0072 (0)	0.007 (0)	0.0001(0)		<0.04	<0.04	0.01	
10/4/2017	-0.04				0.0172 ( 1)	<b>10.04</b>	-0.04		-0.04
10/5/2017					0.0173 (3)				<0.04
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018		0.0052 (1)							
6/6/2018		0.0032 (3)	-0.04	0.0008 ( 1)					
0/0/2018			<0.04	0.0098 (J)		0.004 (1)		-0.04	0.0045 (1)
0/7/2018					0.010 (1)	0.004 (J)		<0.04	0.0045 (J)
0/8/2018	<b>&lt;</b> 0.04				U.U.I.3 (J)		0.014 (15		
6/11/2018							0.014 (J)		
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				0.01 (J)				0.0057 (J)	0.005 (J)
9/27/2018								. /	
10/1/2018	<0.04	0.021 (J)	0.0049 (J)		0.015 (J)	<0.04			

#### Constituent: Boron (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)
10/2/2018							<0.04		
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		0.005 (J)	<0.04						
3/29/2019					0.014 (J)				
4/1/2019	<0.04					<0.04	<0.04		
4/2/2019									
4/3/2019				0.0076 (J)				0.0044 (J)	0.0055 (J)
4/4/2019									
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)	0.0054 (J)	<0.04		<0.04
9/26/2019									
9/27/2019									
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)		
3/24/2020				0.011 (J)				0.0068 (J)	
3/25/2020									0.011 (J)
3/26/2020									
9/22/2020				0.0079 (J)				0.0053 (J)	<0.04
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)				
10/7/2020									
3/1/2021							<0.04		
3/2/2021				0.0068 (J)	0.017 (J)			0.011 (J)	
3/3/2021	<0.04	<0.04	<0.04			<0.04			0.0056 (J)
3/4/2021									

	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
6/1/2016									
6/2/2016									
6/6/2016	<0.04	<0.04							
6/7/2016			0.99	<0.04	<0.04	<0.04			
6/8/2016							<0.04		
7/25/2016									
7/26/2016									
7/27/2016	<0.04	0.0059 (J)			<0.04	0.008 (J)			
7/28/2016			1.09	<0.04					
8/1/2016							<0.04		
8/30/2016								0.0166 (J)	24.7
8/31/2016									
9/1/2016									
9/2/2016									
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			1.35				<0.04		
11/1/2016									
11/2/2016					<0.04				
11/3/2016	<0.04	0.0082 (J)		<0.04		0.0077 (J)			
11/4/2016									
11/8/2016			1.5				<0.04		
11/14/2016								0.0166 (J)	
11/15/2016									
11/16/2016									16.4
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	<0.04	0.0096 (J)				0.0092 (J)			
1/12/2017									
1/13/2017				<0.04	<0.04				
1/16/2017			1.67						
1/17/2017							<0.04		
2/21/2017									
2/22/2017									
2/24/2017								0.0145 (J)	
2/27/2017									17.9
2/28/2017									
3/1/2017	<0.04	<0.04							
3/2/2017						0.0095 (J)			
3/3/2017				0.04					
3/6/2017				<0.04	<0.04				
3///2017							0.04		
3/8/2017							<0.04		
3/9/2017		0.0001 ( "	1.44	0.04					
4/26/2017	<0.04	0.0091 (J)		<0.04	<0.04				
4/2//2017									
4/28/2017									
5/1/2017									

	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
5/2/2017			1.2			<0.04	0.0099 (J)		
5/8/2017								0.0141 (J)	
5/9/2017									
5/10/2017									20.4
5/26/2017									
6/27/2017									
6/28/2017	<0.04	0.0079 (J)							
6/29/2017				<0.04	<0.04	0.0074 (J)			
6/30/2017									
7/7/2017							0.0076 (J)		
7/10/2017			1.12						
7/11/2017								0.0131 (J)	25.2
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017				<0.04					
10/4/2017		0.009 (J)			<0.04	0.0077 (J)			
10/5/2017	<0.04						<0.04		
10/6/2017									
10/10/2017								0.0124 (J)	
10/11/2017			1.09						
10/12/2017									20
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018								0.013 (J)	
4/3/2018									
4/4/2018				0.0000 (1)					22.7
6/5/2018				0.0092 (J)	0.0040 (1)				
6/6/2018					0.0049 (J)				
6/7/2018	<0.04								
6/6/2018		0.0002 (1)				0.01 (1)			
6/11/2018		0.0093 (J)	0.0			0.01 (J)	0.018 ( 1)		
6/12/2018			0.9				0.018 (J)		
6/13/2018									
6/22/2018									
0/20/2010									
8/7/2019									
0/10/2010								0.012 ( 1)	
9/19/2010								0.012 (J)	20.3
912012010									20.3
J/24/2010	0.0046(1)	0.007 (1)		0.0054 ( !)	<0.04	0.0096 ( !)			
9/26/2019	0.0040 (0)	0.007 (0)		0.0004 (0)	-0.04	0.0000 (0)	0.0055 ( 1)		
9/27/2019			0.71				0.0000 (0)		
10/1/2018			0.71						
10/1/2010									

	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								0.013 (J)	20.3
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019				0.011 (J)		0.0066 (J)			
4/3/2019	<0.04	0.0053 (J)			<0.04				
4/4/2019			0.6				<0.04		
6/12/2019									
9/24/2019				0.018 (J)					
9/25/2019					<0.04	0.0081 (J)			
9/26/2019	0.0062 (J)	0.0072 (J)					0.0068 (J)		
9/27/2019			0.58						
10/8/2019								0.012 (J)	
10/9/2019									16.6
3/17/2020								0.023 (J)	
3/18/2020									
3/19/2020									
3/24/2020	0.0054 (J)	0.01 (J)		0.016 (J)	<0.04	0.0092 (J)			
3/25/2020									15.5
3/26/2020			0.94				0.033 (J)		
9/22/2020								0.0076 (J)	
9/23/2020	0.021 (J)	0.006 (J)				0.0066 (J)	<0.04		
9/24/2020			1.1	0.013 (J)	0.0094 (J)				15.2
9/25/2020									
10/7/2020									
3/1/2021								0.013 (J)	
3/2/2021									
3/3/2021	<0.04	0.0094 (J)			<0.04	0.01 (J)	<0.04		
3/4/2021			1.2	0.0079 (J)					14.8

# **Prediction Limit**

Constituent: Boron (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	0.0315 ( 1)	0 169							
0/1/2016	0.0313 (3)	0.109	0.0112 (1)						
9/1/2016			0.0113 (J)	0 100					
9/2/2016				0.133					
9/13/2016									
9/14/2016					<0.04				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					<0.04				
11/8/2016									
11/14/2016				0.287					
11/15/2016			0.0074 (J)						
11/16/2016		0.406							
11/28/2016	0.0095 (J)								
12/15/2016					0.0107 (J)				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					<0.04				
1/17/2017									
2/21/2017									
2/22/2017	<0.04								
2/24/2017		0.725							
2/27/2017			<0.04						
2/28/2017			0.01	0 215					
3/1/2017				0.215					
3/2/2017									
3/2/2017					<0.04				
3/6/2017					<b>~</b> ∪.U <del>4</del>				
3/3/2017									
3///2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/2//2017									
4/28/2017					<0.04				
5/1/2017									

# **Prediction Limit**

#### Constituent: Boron (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
5/2/2017									
5/8/2017	0.0084 (J)								
5/9/2017			<0.04	0.233					
5/10/2017		0.955							
5/26/2017					<0.04				
6/27/2017									
6/28/2017					<0.04				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		0.994							
7/13/2017			0.0093 (J)	0.262					
7/17/2017	0 0092 (.1)								
9/22/2017	0.0002 (0)			0 238					
9/29/2017				0.235					
10/3/2017				0.200	<0.04				
10/0/2017					-0.04				
10/5/2017									
10/6/2017				0.256					
10/10/2017				0.230					
10/10/2017			-0.04	0.245		0.0125 (1)			
10/11/2017		1 15	<b>~0.04</b>	0.245		0.0135 (3)	10.2	10	0.0401
10/12/2017	-0.04	1.15					19.5	12	0.0401
11/20/2017	<0.04					0.0251 (1)	21.0		0.156
11/20/2017						0.0251 (J)	21.0	10.1	0.150
1/12/2017								12.1	0.15
1/10/2018						0.0255 (1)		10.0	0.15
1/11/2018						0.0255 (J)	10 7	12.8	
1/12/2018							18.7	15.0	0.440
2/19/2018	<0.04					-0.04	10.0	15.2	0.146
2/20/2018						<0.04	18.0		
4/2/2018						<b>.</b>			
4/3/2018						0.033 (J)	20.9	14.5	0.12
4/4/2018		1.2	0.0041 (J)						
6/5/2018									
6/6/2018									
6/7/2018					<0.04				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				0.25					
6/27/2018								14.1	
6/28/2018						0.053	22.7		0.16
8/6/2018	<0.04								
8/7/2018						0.024 (J)	19.1	11.9	0.12
9/19/2018									
9/20/2018		2.1	0.0042 (J)						
9/24/2018						0.028 (J)	18.4	12.2	0.099
9/25/2018									
9/26/2018				0.24					
9/27/2018									
10/1/2018					<0.04				

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
10/2/2018									
2/25/2019	<0.04								
3/26/2019									0.096
3/27/2019						0.017 (J)	16.7		
3/28/2019		1.8	<0.04					7.1	
3/29/2019					0.0065 (J)				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				0.22					
6/12/2019	<0.04								
9/24/2019					0.0076 (J)				
9/25/2019									
9/26/2019			<0.04	0.13					
9/27/2019									
10/8/2019	<0.04								
10/9/2019		2.7				0.017 (J)	13.5	8.6	0.079
3/17/2020	0.0051 (J)								
3/18/2020									
3/19/2020					0.0073 (J)				
3/24/2020									0.088 (J)
3/25/2020		2.4	0.012 (J)	0.11		0.043 (J)	9.3	7.9	
3/26/2020									
9/22/2020	0.0079 (J)								
9/23/2020					<0.04				
9/24/2020			0.062 (J)			0.037 (J)			0.087 (J)
9/25/2020		3.9					8	6	
10/7/2020				0.018 (J)					
3/1/2021									
3/2/2021	<0.04								
3/3/2021					<0.04				
3/4/2021		3.6	<0.04	0.0088 (J)		0.033 (J)	6.4	4	0.078

## **Prediction Limit**

Constituent: Calcium (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)
6/1/2016	21	12	2.5						
6/2/2016				33	1.3	28	1.3	2.4	8.8
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	20.3		2.16				1.17		
7/26/2016		11		32.3	1.24	24.5		2.12	7.69
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		11.8	2.21						
9/14/2016	19.7			31				2.18	8.49
9/15/2016					1.17	27			
9/16/2016									
9/19/2016							1.05		
9/20/2016									
11/1/2016	18.4	11				25.6	1.14		
11/2/2016				30.9	1.23				7.83
11/3/2016									
11/4/2016			2.67					2.17 (J)	
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
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		
1/17/2017									
2/21/2017							1.25		
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	18.6								
3/2/2017		11	2.57			27.5			
3/3/2017									
3/6/2017									8.64
3/7/2017				32.7				2.34	
3/8/2017					1.21				
3/9/2017									
4/26/2017	25.6				1.14	30.4	1.03		
4/27/2017		11.1	2.38						
4/28/2017									
5/1/2017				37					13.4

#### Constituent: Calcium (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)
5/2/2017								2.17	
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		13.8	2.36	36.5				2.13	
6/28/2017	23.9	10.0	2.00	00.0		29.8		2.10	
6/20/2017	20.0					23.0			Q Q1
6/29/2017					1.04		1 1 2		0.01
6/30/2017					1.24		1.13		
////2017									
//10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		14	2.21	30.9				2.15	
10/4/2017	22.1					29.7	1.09		
10/5/2017					1.11				9.29
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2019									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018		15.2 (J)							
6/6/2018			2.3	26.2					
6/7/2018						29.1		2.3	8.2
6/8/2018	21.9 (J)				1.1				
6/11/2018							1.1		
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2019									
0/25/2010									
0/26/2010				25.9				2.2	0.5 (1)
5/20/2018				∠0.0				2.3	9.0 (J)
9/2//2018	40.7	45.4	1.0		0.00				
10/1/2018	19.7	15.1	1.8		0.99	26.9			

#### Constituent: Calcium (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	YGWA-31 (ba)	YGWA-1D (ba)	YGWA-11 (ba)	YGWA-5D (ba)	YGWA-14S (bg)	YGWA-3D (ba)	YGWA-301 (ba)	YGWA-5I (ba)	YGWA-41 (ba)
10/2/2018	(bg)	ration (bg)	ration (bg)	(bg)	1 GW/ 140 (bg)	(bg)	1 1	rative (bg)	1 GUN ( 41 (5g)
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		13.3 (J)	2.2						
3/29/2019		()			1.1				
4/1/2019	20.4 (J)					30.1	1.3		
4/2/2019	- (-)								
4/3/2019				24.7 (J)				2.8	8.4
4/4/2019				(-)					
6/12/2019									
9/24/2019		15.8	2.3	25.8				2.5	
9/25/2019	22.4				1.1	29.5	1.1		9.5
9/26/2019									
9/27/2019									
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		
3/24/2020				26.1				2.5	
3/25/2020									10.5
3/26/2020									
9/22/2020				27.2				2.6	9.6
9/23/2020	23.6	14.1	1.8			28.6			
9/24/2020							1.1		
9/25/2020					1.3				
10/7/2020									
3/1/2021							1.2		
3/2/2021				1.6	1.2			2.6	
3/3/2021	20.6	14.1	1.8			29.8			7.7
3/4/2021									

	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
6/1/2016									
6/2/2016									
6/6/2016	6.2	1.4							
6/7/2016			9.6	3.7	2.3	2.2			
6/8/2016							1.9		
7/25/2016									
7/26/2016									
7/27/2016	4.73	1.19			2.08	2			
7/28/2016			7 87	3 15					
8/1/2016							1.83		
8/30/2016								20.9	133
8/31/2016								20.0	100
9/1/2016									
9/2/2016									
9/13/2016									
9/13/2016									
9/14/2016									
9/15/2016		1 5				1.07			
9/16/2016	4.70	1.5		0.17	4.07	1.97			
9/19/2016	4.76		0.00	3.17	1.97		1 70		
9/20/2016			9.28				1.78		
11/1/2016									
11/2/2016					2.13				
11/3/2016	5.25	1.31		3.4		1.99			
11/4/2016									
11/8/2016			8.6				1.77		
11/14/2016								18.6	
11/15/2016									
11/16/2016									125
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			8.85						
1/17/2017							1.7		
2/21/2017									
2/22/2017									
2/24/2017								16.1	
2/27/2017									139
2/28/2017									
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							1.77		
3/9/2017			8.4						
4/26/2017	4.28	1.05		6.65	2.3				
4/27/2017									
4/28/2017									
5/1/2017									

Constituent: Calcium (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

5/2/2017	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
5/8/2017			12.5			1.55	1.57	14.6	
5/9/2017									
5/10/2017									130
5/26/2017									
6/27/2017									
6/28/2017	4.95	1.06							
6/29/2017				6.04	2.54	2.02			
6/30/2017									
7/7/2017							1.8		
7/10/2017			8.09						
7/11/2017								14.3	172
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017				8.28					
10/4/2017		1.1			2.25	2.03			
10/5/2017	5.28						1.7		
10/6/2017									
10/10/2017								12.1	
10/11/2017			6.36						
10/12/2017									144
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018								<25	
4/3/2018									
4/4/2018									137
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			4.7				1.8		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018								11.1 (J)	
9/20/2018									108
9/24/2018									
9/25/2018	4.6	1		10.4 (J)	2.3	2.1			
9/26/2018							1.7		
9/27/2018			4.1						
10/1/2018									

	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								10.8 (J)	109
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019				8.8		2.5			
4/3/2019	5.3	1.2			2.9				
4/4/2019			3.7				1.9		
6/12/2019									
9/24/2019				7.7					
9/25/2019					2.4	2.6			
9/26/2019	4.9	1.1					1.7		
9/27/2019			3.7						
10/8/2019								9.7	
10/9/2019									92
3/17/2020								14.8	
3/18/2020									
3/19/2020									
3/24/2020	5.3	1		6	2.6	2.7			
3/25/2020									107
3/26/2020			5.6				1.7		
9/22/2020								10.1	
9/23/2020	5.2	0.91 (J)				2.6	2.4		
9/24/2020			7.9	7.8	2.6				84.3
9/25/2020									
10/7/2020									
3/1/2021								10.3	
3/2/2021									
3/3/2021	5.2	0.96 (J)			2.4	2.5	2.4		
3/4/2021			10.2	8.7					90.7

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Constituent: Calcium (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	9 31	34							
9/1/2016	0.01	0.1	13.9						
9/2/2016			10.0	11.2					
0/12/2016				11.2					
9/13/2016					22 F				
9/14/2016					23.5				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					23.7				
11/8/2016									
11/14/2016				7.79					
11/15/2016			13.5						
11/16/2016		3.79							
11/28/2016	9.47 (B)								
12/15/2016					23.1				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					23.3				
1/17/2017									
2/21/2017									
2/22/2017	10.4								
2/24/2017		6.42							
2/27/2017			12.5						
2/28/2017				8.37					
3/1/2017									
3/2/2017									
3/3/2017					25.1				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
A/26/2017									
4/27/2017									
4/20/2017					20.7				
4/20/2017					30.7				
5/1/2017									

#### Constituent: Calcium (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
5/2/2017									
5/8/2017	14.2								
5/9/2017			14.4	13.9					
5/10/2017		7.9							
5/26/2017					26.2				
6/27/2017									
6/28/2017					26.1				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		6.71							
7/13/2017		0.71	14.1	16.6					
7/17/2017	14 1								
9/22/2017	17.1			18 /					
9/29/2017				16.1					
10/3/2017				10.1	26.7				
10/3/2017					20.7				
10/5/2017									
10/6/2017				16.6					
10/0/2017				10.0					
10/10/2017			10.4	10.1		0.74			
10/11/2017		7.05	12.4	10.1		2.74	100	44.5	2.0
10/12/2017	12.6	7.05					190	44.5	2.9
10/16/2017	13.0					1.01	104		10.4
11/20/2017						1.81	184		10.4
11/21/2017								44.4	40.0
1/10/2018								40.0	10.2
1/11/2018						1.54		43.9	
1/12/2018							178		
2/19/2018	<25							45.3	<25
2/20/2018						1.71	184		
4/2/2018									
4/3/2018						1.4	174	42.7	6.3
4/4/2018		8.6	<25						
6/5/2018									
6/6/2018									
6/7/2018					25				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				18.7 (J)					
6/27/2018								42.2	
6/28/2018						1.4	190		6.7
8/6/2018	11.4 (J)								
8/7/2018						1.2	176	40.7	6.3
9/19/2018									
9/20/2018		15.9 (J)	12 (J)						
9/24/2018						1.1	172	38.5	5.7
9/25/2018									
9/26/2018				19.8 (J)					
9/27/2018									
10/1/2018					25				

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
10/2/2018									
2/25/2019	12.7 (J)								
3/26/2019									5.6
3/27/2019						1.5	155		
3/28/2019		8.9	11.3 (J)					26	
3/29/2019					23.5 (J)				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				16.9 (J)					
6/12/2019	18.9								
9/24/2019					26.4				
9/25/2019									
9/26/2019			12.1	11.7					
9/27/2019									
10/8/2019	28.3								
10/9/2019		18.2				2.4	133	27.6	4.9
3/17/2020	24.3								
3/18/2020									
3/19/2020					27.4				
3/24/2020									4.8
3/25/2020		12.1	13.2	10.6		2.7	124	29.6	
3/26/2020									
9/22/2020	31								
9/23/2020					26.3				
9/24/2020			12			3.7			4.4
9/25/2020		19.8					93.7	20.5	
10/7/2020				9.9					
3/1/2021									
3/2/2021	34.2								
3/3/2021					25.6				
3/4/2021		32.2	13	5.6		8.2	87	16.4	4.6

Constituent: Chloride (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)
6/1/2016	1.3	1.3	1.6						
6/2/2016				7.2	4.1	1.4	1.9	4.3	3.7
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	1.3		1.4				1.7		
7/26/2016		1.2		6.6	4	1.6		4.4	3.6
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		1.1	1.3						
9/14/2016	1.3			6.6				3.8	3.4
9/15/2016					4.2	1.5			
9/16/2016									
9/19/2016							1.6		
9/20/2016									
11/1/2016	1.4	1.3				1.7	1.8		
11/2/2016				7.6	4.9				4.5
11/3/2016									
11/4/2016			1.6					4.8	
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
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		
1/17/2017									
2/21/2017							1.7		
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
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				
3/9/2017									
4/26/2017	1.1				4.1	1.2	1.7		
4/27/2017		1	1.3						
4/28/2017									
5/1/2017				7.2					4.3

#### Constituent: Chloride (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)
5/2/2017								4.6	
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		1.1	1.4	7				4.3	
6/28/2017	12			-		13			
6/29/2017	1.2					1.0			12
6/20/2017					27		1 0		7.2
0/30/2017					5.7		1.0		
7/7/2017									
7/10/2017									
//11/2017									
//13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		1.1	1.7	6.5				4.2	
10/4/2017	1.2					1.5	1.8		
10/5/2017					3.8				4.7
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2019									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018		1.1		. –					
6/6/2018			1.4	4./					
6/7/2018						1.2		4.5	4.4
6/8/2018	1.2				3.4				
6/11/2018							2		
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				4.8				5.1	4.8
9/27/2018									
10/1/2018	1.2	1.1	1.4		3.8	1.5			

#### Constituent: Chloride (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)
10/2/2018							1.8		
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		1.4	1.5						
3/29/2019					4.2				
4/1/2019	1.1					1.2	1.7		
4/2/2019									
4/3/2019				4				4.2	4.3
4/4/2019									
6/12/2019									
9/24/2019		1.1	1.3	3.7				4.5	
9/25/2019	1.1				4.8	1.1	1.6		4.5
9/26/2019									
9/27/2019									
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		
3/24/2020				3.5				4.3	
3/25/2020									3.9
3/26/2020									
9/22/2020				3.6				4.2	4.5
9/23/2020	1	0.99 (J)	1.2			1.1			
9/24/2020							1.5		
9/25/2020					5.3				
10/7/2020					0.0				
3/1/2021							16		
3/2/2021				3.2	19		1.0	13	
3/3/2021	0.99 (1)	0.96(1)	12	5.2	J.J	11		т.5	4.1
3/3/2021	0.99 (3)	0.90 (3)	1.2			1.1			4.1
3/4/2021									

	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
6/1/2016									
6/2/2016									
6/6/2016	6.8	6.4							
6/7/2016			2.9	2.8	1.9	4.5			
6/8/2016							5.9		
7/25/2016									
7/26/2016									
7/27/2016	6.7	6.2			1.9	4.5			
7/28/2016			3.5	2.6					
8/1/2016							5.3		
8/30/2016								5.2	4.4
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		6.1				4.5			
9/19/2016	7	0.1		24	19				
9/20/2016	,		24	2.7	1.0		5 5		
11/1/2016							0.0		
11/2/2016					2.6				
11/2/2016	7.5	74		20	2.0	5.4			
11/3/2016	7.5	7.4		2.5		5.4			
11/4/2010			2 0				6.4		
11/14/2016			2.0				0.4	6.4	
11/14/2016								0.4	
11/15/2016									4.7
11/10/2010									4.7
11/28/2016									
12/15/2016									
1/10/2017	C F	6.1				47			
1/11/2017	0.5	0.1				4.7			
1/12/2017				0.5					
1/13/2017			1.0	2.5	2.3				
1/10/2017			1.0						
1/1//2017							5.5		
2/21/2017									
2/22/2017									
2/24/2017								5.5	47
2/2//201/									4.7
2/28/2017		2							
3/1/2017	6.9	6							
3/2/2017						4.8			
3/3/2017									
3/6/2017				2.1	1.9				
3/7/2017							<b>F</b> 4		
3/8/2017							5.4		
3/9/2017	_		1.7						
4/26/2017	7	6.5		2.1	2				
4/27/2017									
4/28/2017									
5/1/2017									

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	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
5/2/2017			1.8			4.6	5.7		
5/8/2017								5.8	
5/9/2017									
5/10/2017									4.4
5/26/2017									
6/27/2017									
6/28/2017	7	6.4							
6/29/2017				2.8	2.6	4.5			
6/30/2017									
7/7/2017							5.7		
7/10/2017			1.9						
7/11/2017								5.8	4.7
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017				2.2					
10/4/2017		6.8			2.6	4.7			
10/5/2017	7						6		
10/6/2017									
10/10/2017								59	
10/11/2017			24					0.0	
10/12/2017			2.7						13
10/16/2017									4.5
10/10/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018								4.8	
4/3/2018									
4/4/2018									3.7
6/5/2018				1.7					
6/6/2018					2.7				
6/7/2018	6.8								
6/8/2018									
6/11/2018		6.8				4.9			
6/12/2018			1.8				6.2		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018								4	
9/20/2018									3.8
9/24/2018									
9/25/2018	7.9	7.8		2.2	3.6	5.6			
9/26/2018	-	-					6.9		
9/27/2018			2						
10/1/2018			-						

	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								4.3	3.9
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019				2.5		4.8			
4/3/2019	6.9	6.3			3.1				
4/4/2019			1.7				5.9		
6/12/2019									
9/24/2019				3.1					
9/25/2019					2.8	5.7			
9/26/2019	7	7.1					6.5		
9/27/2019			1.7						
10/8/2019								4.4	
10/9/2019									4.1
3/17/2020								4.1	
3/18/2020									
3/19/2020									
3/24/2020	7	6.8		2.8	2.7	5			
3/25/2020									3.2
3/26/2020			1.6				5.4		
9/22/2020								4.2	
9/23/2020	7.2	7.2				6.6	9.3		
9/24/2020			2	2	2.7				3.3
9/25/2020									
10/7/2020									
3/1/2021								3.7	
3/2/2021									
3/3/2021	7	7.2			2.7	7.1	8.6		
3/4/2021			1.8	1.8					2.7

Constituent: Chloride (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	4	1.5							
9/1/2016			5.3						
9/2/2016				6.3					
9/13/2016									
9/14/2016					11				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					1.4				
11/8/2016									
11/14/2016				6.7					
11/15/2016			5.8						
11/16/2016		1.7							
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				
1/17/2017									
2/21/2017									
2/22/2017	3.7								
2/24/2017		1.5							
2/27/2017			4.6						
2/28/2017				5.4					
3/1/2017									
3/2/2017									
3/3/2017					1.1				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					0.91				
5/1/2017									

#### Constituent: Chloride (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
5/2/2017									
5/8/2017	4.2								
5/9/2017			5.3	5.7					
5/10/2017		1.2							
5/26/2017					0.93				
6/27/2017									
6/28/2017					1				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/10/2017		15							
7/11/2017		1.5	47	E 4					
7/13/2017	2.0		4.7	5.4					
7/17/2017	3.8								
9/22/2017				6.9					
9/29/2017				5.5					
10/3/2017					1.2				
10/4/2017									
10/5/2017									
10/6/2017				5.5					
10/10/2017									
10/11/2017			5.8	6.4		2.4			
10/12/2017		1.6					6	3.1	3.8
10/16/2017	4.2								
11/20/2017						1.8	6.9		4.4
11/21/2017								4.2	
1/10/2018									4.6
1/11/2018						1.6		3.8	
1/12/2018							6.6		
2/19/2018	4.3							3.5	4.6
2/20/2018						2	6.2		
4/2/2018									
4/3/2018						3.3	6.9	4.4	5.9
4/4/2018		1.8	4.3						
6/5/2018									
6/6/2018									
6/7/2018					1				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				5.6					
6/27/2018				0.0				3.6	
6/28/2018						2.1	64	5.0	5
0/28/2018	2.0					2.1	0.4		5
8/0/2018	3.0					10	F F	2.2	4.2
8/7/2018						1.2	5.5	3.3	4.3
9/19/2018		1.0	4.0						
9/20/2018		1.9	4.8			1.0	5.0		4.0
9/24/2018						1.3	5.9	3.3	4.9
9/25/2018				<u>.</u>					
9/26/2018				6					
9/27/2018									
10/1/2018					1.1				

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
10/2/2018									
2/25/2019	4.1								
3/26/2019									4.4
3/27/2019						1.4	6.2		
3/28/2019		1.8	4.4					3.2	
3/29/2019					1.2				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				5.4					
6/12/2019	4.7								
9/24/2019					0.95 (J)				
9/25/2019									
9/26/2019			5	7.1					
9/27/2019									
10/8/2019	5.1								
10/9/2019		2.3				2.1	5	3.3	5.1
3/17/2020	4.8								
3/18/2020									
3/19/2020					0.97 (J)				
3/24/2020									4.7
3/25/2020		1.8	4.1	6.3		1.9	4	2.7	
3/26/2020									
9/22/2020	4.2								
9/23/2020					0.88 (J)				
9/24/2020			4.6			2.7			5
9/25/2020		2.3					4	3	
10/7/2020				8.7					
3/1/2021									
3/2/2021	4.1								
3/3/2021					0.86 (J)				
3/4/2021		2.1	4.1	6.6		4.9	3.9	3.4	4.9

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	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5D (bg)
6/1/2016	<0.1	0.12 (J)	0.15 (J)						
6/2/2016				<0.1	<0.1	<0.1	<0.1	0.62	0.11 (J)
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	0.06 (J)		0.14 (J)	0.06 (J)					
7/26/2016		0.08 (J)			<0.1	<0.1	0.02 (J)	0.49	0.05 (J)
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016	<0.1	0.11 (J)							
9/14/2016			0.18 (J)		<0.1	<0.1			0.04 (J)
9/15/2016							<0.1	0.54	
9/16/2016									
9/19/2016				<0.1					
9/20/2016									
11/1/2016		<0.1	<0.1	<0.1				0.68	
11/2/2016					<0 1		<0.1		<0.1
11/3/2016					0.1				
11/4/2016	<0.1					<0.1			
11/8/2016	-0.1					-0.1			
11/14/2016									
11/14/2016									
11/15/2016									
11/16/2016									
10/15/2010									
12/15/2016							-0.1		
1/10/2017		0.05 (1)	0.00 ( ))				<0.1	0.40	
1/11/2017		0.05 (J)	0.09 (J)					0.49	
1/12/2017						<0.1			0.04 (J)
1/13/2017					<0.1				
1/16/2017	<0.1			<0.1					
1/17/2017									
2/21/2017				<0.1					
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017			<0.1						
3/2/2017	<0.1	<0.1						0.48	
3/3/2017									
3/6/2017					<0.1				
3/7/2017						<0.1			<0.1
3/8/2017							<0.1		
3/9/2017									
4/26/2017			0.08 (J)	<0.1			<0.1	0.48	
4/27/2017	0.01 (J)	0.04 (J)							
4/28/2017									
5/1/2017					<0.1				<0.1

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5D (bg)
5/2/2017						<0.1			
5/8/2017									
5/9/2017									
5/10/2017									
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		
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
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									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
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									
4/4/2018									
6/5/2018		0.055 (J)							
6/6/2018	<0.1								0.15 (J)
6/7/2018					<0.1	<0.1		0.48	
6/8/2018			0.2 (J)				<0.1		
6/11/2018				<0.1					
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
5.22010									

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	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5D (bg)
9/25/2018									
9/26/2018					<0.1	<0.1			<0.1
9/27/2018									
10/1/2018	<0.1	<0.1	<0.1				<0.1	0.44	
10/2/2018				<0.1					
2/25/2019									
2/26/2019				<0.1			<0.1		
2/27/2019	<0.1	0.052 (J)	0.13 (J)					0.53	
3/4/2019					<0.1	<0.1			0.19 (J)
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)	<0.1				0.45	
4/2/2019									
4/3/2019					<0.1	<0.1			0.047 (J)
4/4/2019									
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
8/22/2019									
9/24/2019	<0.1	0.063 (J)				<0.1			0.05 (J)
9/25/2019			0.1 (J)	<0.1	<0.1		<0.1	0.46	
9/26/2019									
9/27/2019									
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
3/17/2020									
3/18/2020	<0.1						<0.1		
3/19/2020		0.064 (J)	0.11 (J)	<0.1				0.51	
3/24/2020						<0.1			<0.1
3/25/2020					<0.1				
3/26/2020									
8/26/2020									
8/27/2020									
9/22/2020					<0.1	<0.1			0.056 (J)
9/23/2020	<0.1	0.058 (J)	0.098 (J)					0.47	
9/24/2020				<0.1					
9/25/2020							<0.1		
10/7/2020									
2/8/2021						<0.1			0.055 (J)
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					

Constituent: Fluoride (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5D (bg)
3/2/2021						<0.1	<0.1		<0.1
3/3/2021	<0.1	0.078 (J)	0.1		<0.1			0.44	
3/4/2021									

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
6/1/2016									
6/2/2016									
6/6/2016	<0.1	<0.1							
6/7/2016			<0.1	<0.1	<0.1	<0.1			
6/8/2016							<0.1		
7/25/2016									
7/26/2016									
7/27/2016	<0.1	<0.1		<0.1		<0.1			
7/28/2016			0.02 (J)		0.03 (J)				
8/1/2016							<0.1		
8/30/2016								0.09(.1)	0.02(.1)
8/31/2016								0.00 (0)	0.02 (0)
9/1/2016									
9/2/2016									
9/2/2010									
9/13/2010									
9/14/2016									
9/15/2016									
9/16/2016		<0.1	0 00 ( N			<0.1			
9/19/2016	<0.1		0.02 (J)	<0.1					
9/20/2016					<0.1		<0.1		
11/1/2016									
11/2/2016				<0.1					
11/3/2016	<0.1	<0.1	<0.1			<0.1			
11/4/2016									
11/8/2016					<0.1		<0.1		
11/14/2016								0.18 (J)	
11/15/2016									
11/16/2016									0.07 (J)
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					<0.1				
1/17/2017							<0.1		
2/21/2017									
2/22/2017									
2/24/2017								0.05 (J)	
2/27/2017									0.06 (J)
2/28/2017									()
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							<0.1		
3/0/2017					-0.1		-0.1		
J/26/2017	<0.1	<0.1	0.04 ( 1)	<0.1	SU. 1				
4/20/2017	<b>~</b> 0.1	<b>~</b> 0.1	0.04 (J)	<b>∼</b> 0.1					
4/2//2017									
4/28/2017									
5/1/2017									

5/0/0017	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
5/2/2017					<0.1	<0.1	<0.1	0.02 ( 1)	
5/8/2017								0.03 (J)	
5/9/2017									-0.1
5/10/2017									S0.1
5/20/2017									
6/27/2017	-0.1	-0.1							
6/26/2017	<0.1	<0.1	-0.1	-0.1		-0.1			
6/29/2017			<0.1	<0.1		<0.1			
6/30/2017							-0.1		
7/7/2017					-0.1		<0.1		
7/10/2017					<0.1			0.07 (1)	-0.1
7/11/2017								0.07 (J)	<0.1
7/13/2017									
0/22/2017									
9/22/2017									
9/29/2017			-0.1						
10/3/2017		-0.1	<0.1	-0.1		-0.1			
10/4/2017	-0.1	<0.1		<0.1		<0.1	-0.1		
10/5/2017	<0.1						<0.1		
10/0/2017								-0.1	
10/10/2017					-0.1			<0.1	
10/11/2017					<0.1				
10/12/2017									<0.1
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
3/27/2018									
3/28/2018	<0.1	<0.1				<0.1			
3/29/2018			<0.1	<0.1					
3/30/2018					<0.1		<0.1		
4/2/2018								<0.1	
4/3/2018									
4/4/2018									<0.1
6/5/2018			0.13 (J)						
6/6/2018				<0.1					
6/7/2018	<0.1								
6/8/2018									
6/11/2018		<0.1				<0.1			
6/12/2018					<0.1		<0.1		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018								<0.1	
9/20/2018									0.041 (J)
9/24/2018									

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
9/25/2018	<0.1	<0.1	0 (J)	<0.1		<0.1			
9/26/2018							<0.1		
9/27/2018					<0.1				
10/1/2018									
10/2/2018									
2/25/2019									
2/26/2019									
2/27/2019									
3/4/2019									
3/5/2019		<0.1	0.32	<0.1		<0.1	<0.1		
3/6/2019	<0.1	-0.1	0.52	50.1	<01	-0.1	-0.1		
3/0/2019	-0.1				-0.1				
3/20/2019								0.001 ( 1)	-0.1
3/2//2019								0.081 (3)	<b>NO.1</b>
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			0.12 (J)			<0.1			
4/3/2019	<0.1	<0.1		<0.1					
4/4/2019					0.049 (J)		0.033 (J)		
6/12/2019									
8/19/2019									
8/20/2019								<0.1	
8/21/2019									
8/22/2019									<0.1
9/24/2019			0.15 (J)						
9/25/2019				<0.1		<0.1			
9/26/2019	<0.1	<0.1					0.098 (J)		
9/27/2019					0.12 (J)				
10/8/2019								0.034 (J)	
10/9/2019									<0.1
2/10/2020									
2/11/2020	<0.1	<0.1				<0.1			
2/12/2020			0.1 (J)	<0.1					
3/17/2020								<0.1	
3/18/2020									
3/19/2020									
3/24/2020	<0.1	<0 1	0.081(1)	<0.1		<0.1			
3/25/2020	-0.1	-0.1	0.001 (0)	-0.1		-0.1			<0.1
3/26/2020					<0.1		<0.1		-0.1
8/26/2020					50.1		-0.1		
8/20/2020								-0.1	
0/22/2020								<0.1	
9/22/2020	-0.1	-0.1				-0.1	-0.1	<0.1	
9/23/2020	<0.1	<0.1	0.070 ( ))			<0.1	<0.1		
9/24/2020			0.079 (J)	<0.1	<0.1				<0.1
9/25/2020									
10/7/2020									
2/8/2021									
2/9/2021	<0.1	<0.1	0.092 (J)	<0.1	<0.1		<0.1		
2/10/2021									<0.1
2/11/2021									
2/12/2021									
3/1/2021								<0.1	

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	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
3/2/2021									
3/3/2021	<0.1	<0.1		<0.1		<0.1	<0.1		
3/4/2021			0.091 (J)		<0.1				<0.1

Constituent: Fluoride (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-41	YGWC-38
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	0 12 (.1)	0 14 (.1)							
9/1/2016	0.12(0)	0.1.1 (0)	0.09(1)						
9/2/2016			0.00 (0)	0.05(1)					
9/13/2016				0.00 (0)					
9/13/2016					0.08 ( 1)				
9/14/2016					0.08 (J)				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					<0.1				
11/8/2016									
11/14/2016				0.18 (J)					
11/15/2016			0.16 (J)						
11/16/2016	0.2 (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)				
1/17/2017									
2/21/2017									
2/22/2017		0.09 (J)							
2/24/2017	0.21 (J)								
2/27/2017			0.06 (J)						
2/28/2017				0.09 (J)					
3/1/2017									
3/2/2017									
3/3/2017					<0.1				
3/6/2017					0.1				
3/7/2017									
3/8/2017									
3/0/2017									
JIJIZUTI 1/26/2017									
4/20/2017									
4/2//2017					0.00 (1)				
4/28/2017					υ.υσ (J)				
5/1/2017									

#### Constituent: Fluoride (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-41	YGWC-38
5/2/2017									
5/8/2017		0.05 (J)							
5/9/2017			0.05 (J)	0.009 (J)					
5/10/2017	0.04 (J)								
5/26/2017					0.09 (J)				
6/27/2017									
6/28/2017					0.11 (J)				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017	0.2 (J)								
7/13/2017			<0.1	<0.1					
7/17/2017		0 14 (.1)							
9/22/2017		0(0)		0.09(1)					
9/29/2017				<0.1					
10/3/2017				-0.1	<0.1				
10/4/2017					-0.1				
10/5/2017									
10/5/2017				<0.1					
10/0/2017				-0.1					
10/11/2017			0.14 (1)	-0.1		-0.1			
10/11/2017	0.1 (1)		0.14 (J)	<0.1		<0.1	-0.1	-0.1	-0.1
10/12/2017	0.1 (J)	0.10 (1)					<0.1	<0.1	<0.1
10/16/2017		0.12 (J)							0.0 (1)
11/20/2017						<0.1	<0.1		0.2 (J)
11/21/2017								<0.1	
1/10/2018							<0.1		
1/11/2018						<0.1		<0.1	
1/12/2018									0.21 (J)
2/19/2018		0.17					<0.1	<0.1	
2/20/2018						0.23			<0.1
3/27/2018									
3/28/2018					0.31				
3/29/2018									
3/30/2018				<0.1					
4/2/2018									
4/3/2018						<0.1	<0.1	<0.1	0.41
4/4/2018	<0.1		<0.1						
6/5/2018									
6/6/2018									
6/7/2018					0.11 (J)				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				<0.1					
6/27/2018								<0.1	
6/28/2018						<0.1	<0.1		0.43
8/6/2018		0.087 (J)							
8/7/2018						0.048 (J)	<0.1	0.11 (J)	<0.1
9/19/2018									
9/20/2018	<0.1		<0.1						
9/24/2018						<0.1	<0.1	<0.1	0.034 (J)

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-41	YGWC-38
9/25/2018									
9/26/2018				<0.1					
9/27/2018									
10/1/2018					<0.1				
10/2/2018									
2/25/2019		0.14 (J)							
2/26/2019									
2/27/2019					0.12 (J)				
3/4/2019									
3/5/2019									
3/6/2019				<0.1					
3/26/2019							<0.1		
3/27/2019						<0.1			0.24 (J)
3/28/2019	0.078 (J)		<0.1					0.1 (J)	
3/29/2019					0.13 (J)				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				0.043 (J)					
6/12/2019		0.12 (J)							
8/19/2019		<0.1							
8/20/2019									
8/21/2019	0.062 (J)					<0.1	<0.1		
8/22/2019								<0.1	<0.1
9/24/2019					0.081 (J)				
9/25/2019									
9/26/2019			0.09 (J)	0.094 (J)					
9/27/2019									
10/8/2019		0.052 (J)							
10/9/2019	<0.1					<0.1	<0.1	<0.1	<0.1
2/10/2020									
2/11/2020					0.075 (J)				
2/12/2020						<0.1	<0.1		
3/17/2020		0.053 (J)							
3/18/2020									
3/19/2020					0.093 (J)				
3/24/2020							<0.1		
3/25/2020	0.073 (J)		<0.1	<0.1		<0.1		<0.1	<0.1
3/26/2020									
8/26/2020		0.068 (J)							
8/27/2020									
9/22/2020		0.058 (J)							
9/23/2020					0.08 (J)				
9/24/2020			<0.1			<0.1	<0.1		
9/25/2020	<0.1							<0.1	<0.1
10/7/2020				<0.1					
2/8/2021				-					
2/9/2021	0.058 (J)		<0.1						<0.1
2/10/2021				<0.1	0.094 (J)	<0.1	<0.1	<0.1	
2/11/2021				-	/	-	-	-	
2/12/2021									
3/1/2021									

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#### Constituent: Fluoride (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-41	YGWC-38
3/2/2021		0.073 (J)							
3/3/2021					0.085 (J)				
3/4/2021	0.063 (J)		<0.1	<0.1		<0.1	<0.1	<0.1	<0.1

Constituent: pH (S.U.) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (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	0.01	7 72	7 46	6 33					
6/2/2016		1.12	7.40	0.00	5 75	6 36	7 67	7 84	5 75
6/6/2016					5.75	0.00	7.07	7.04	5.75
6/7/2016									
6/9/2016									
7/25/2016		7 74		6.01	E 92				
7/25/2016		7.74	7 40	0.21	5.62	6.00	7 66	7 00	E 70
7/20/2016			7.43			0.22	7.00	7.00	5.72
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016			7.44	6.16					
9/14/2016		7.65				6.23	7.6		5.74
9/15/2016								7.74	
9/16/2016									
9/19/2016					5.78 (D)				
9/20/2016									
11/1/2016		7.7	7.24		5.62			7.75	
11/2/2016						6.08	7.35		
11/3/2016									
11/4/2016				6.29					5.61
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016	6.23								
12/15/2016									
1/10/2017									
1/11/2017		7.53	7.3					7.66	
1/12/2017							7.49		5.71
1/13/2017						6.19			
1/16/2017				6.29	5.72				
1/17/2017									
2/21/2017					5.67				
2/22/2017	6.21								
2/24/2017									

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)
2/27/2017									
2/28/2017									
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							7.43		5.66
3/8/2017									
3/9/2017									
4/26/2017		7.4			5.56			7.45	
4/27/2017			6.99	6.09					
4/28/2017									
5/1/2017						6.21	7.22		
5/2/2017									5.65
5/8/2017	6 12								0.00
5/9/2017	0.12								
5/10/2017									
5/26/2017									
6/27/2017			6 97	6.01			7 22		F 7
6/22/2017		7.5	0.07	0.21			1.32	7.65	5.7
6/20/2017		7.5				6 21		7.05	
6/29/2017					F 70	0.21			
0/30/2017					5.72				
7/7/2017									
7/10/2017									
7/11/2017									
//13/2017									
//1//201/	6.03								
9/22/2017									
9/29/2017									
10/3/2017			6.81	5.98			7.48		5.79
10/4/2017		7.45			5.87			7.49	
10/5/2017						6.16			
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	6.12								
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018	6.13								
2/20/2018									
3/27/2018				6.25	5.83				
3/28/2018		7.74						7.91	
3/29/2018			7.38			6.09	7.02		5.63
3/30/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			7.16						

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)
6/6/2018				6.17		0.40	7.43	7.00	5.00
6/7/2018						6.12		7.69	5.63
6/8/2018		7.64							
6/11/2018					5.69				
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018	6.01								
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018						5.84	7.13		5.63
9/27/2018									
10/1/2018		7.47	6.8	5.9				7.39	
10/2/2018					5.39				
2/25/2019	6.51								
2/26/2019					5.77				
2/27/2019		7.54	6.84	5.8				7.55	
3/4/2019						6.18	7.46		5.75
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019			6.99	6.15					
3/29/2019									
4/1/2019		7.74			5.62			7.87	
4/2/2019									
4/3/2019						6.43	7.11		5.63
4/4/2019									
6/12/2019	6.3								
8/19/2019	6.23								
8/20/2019									
8/21/2019									
8/22/2019									
9/24/2019			7.07	6.23			6.93		5.6
9/25/2019		7.47			5.69	6.2		7.64	
9/26/2019									
9/27/2019									
10/8/2019	6.28								
10/9/2019									
2/10/2020			7.2	6.1					
2/11/2020		7.09							
2/12/2020					5.8	6.15	7.52	7.83	5.83
3/17/2020	6.14								
3/18/2020				6.19					
3/19/2020		7.31	7.03		6			7.65	
3/24/2020							7.34		5.81
3/25/2020						6.26			
3/26/2020									

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)
5/6/2020	6.24								
8/26/2020	5.67								
8/27/2020									
9/22/2020	5.78					5.8 (D)	7.19 (D)		5.99 (D)
9/23/2020		7.37	7.15	6.01				7.57	
9/24/2020					5.67				
9/25/2020									
10/7/2020									
2/8/2021									5.67
2/9/2021						6.06			
2/10/2021		7.58						7.81	
2/11/2021					5.73				
2/12/2021			7.14	6.21					
3/1/2021					5.78				
3/2/2021	5.42						7.15		5.63
3/3/2021		8.23	7.2	5.38		6.21		8.39	
3/4/2021									

Constituent: pH (S.U.) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	YGWA-14S (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)
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	5.46								
6/6/2016	3.40	5 71	6 17						
6/0/2016		5.71	0.17	5 77	6.1	5.62	5 57		
6/8/2016				5.77	0.1	5.02	5.57	E CE	
0/0/2010								5.05	
7/25/2016	5.45								
7/26/2016	5.45	5.40		5 70		5 50			
//2//2016		5.46	6.14	5.79		5.59			
//28/2016					6.12		5.6		
8/1/2016								5.47	
8/30/2016									5.75
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016	5.45								
9/16/2016						5.58			
9/19/2016		5.59	6.04	5.73	6.12				
9/20/2016							5.53	5.61	
11/1/2016									
11/2/2016	5.41			5.67					
11/3/2016		5.39	5.97		6.07	5.59			
11/4/2016									
11/8/2016							5.53	5.55	
11/14/2016									5.59
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017	5.37								
1/11/2017		5.48	6.05			5.59			
1/12/2017									
1/13/2017				5.79	6.41				
1/16/2017							5.59		
1/17/2017								5.53	
2/21/2017									
2/22/2017									
2/24/2017									5.49

	YGWA-14S (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)
2/27/2017									
2/28/2017									
3/1/2017		5.41	5.94						
3/2/2017						5.54			
3/3/2017									
3/6/2017				5.63	6.34				
3/7/2017									
3/8/2017	5 41							5 62	
3/9/2017							5 56		
4/26/2017	5.02	51	5 99	5 66	6 32		0.00		
4/27/2017	0.02	0.4	0.00	0.00	0.02				
4/27/2017									
4/28/2017									
5/1/2017						F 47	F 61	F 40	
5/2/2017						5.47	5.01	5.46	5 50
5/8/2017									5.58
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017									
6/28/2017		5.36	6						
6/29/2017				5.85	6.47	5.56			
6/30/2017	5.39								
7/7/2017								5.81	
7/10/2017							5.68		
7/11/2017									5.58
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017					6.56				
10/4/2017		5.32		5.83		5.57			
10/5/2017	5.49		6.11					5.45	
10/6/2017									
10/10/2017									5.49
10/11/2017							5.46		
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
3/27/2018	5 47								
3/28/2018	0.17	5 34	61			5 59			
3/20/2010		0.04	0.1	5.03	6 75	0.00			
3/23/2010				0.00	0.75		E 72	E 64	
3/30/2018							0.70	3.04	6.2 (0)
4/2/2010									0.0 (0)
4/3/2018									
4/4/2018					0.00				
6/5/2018					6.09				

	YGWA-14S (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)
6/6/2018			5.00	5.86					
6/7/2018			5.98						
6/8/2018	5.45								
6/11/2018		5.28				5.58			
6/12/2018							5.63	5.64	
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									5.48
9/20/2018									
9/24/2018									
9/25/2018		4.86	5.81	5.84	6.67	5.59			
9/26/2018								5.61	
9/27/2018							5.47		
10/1/2018	5.39								
10/2/2018									
2/25/2019									
2/26/2019	5.46								
2/27/2019									
3///2019									
3/4/2013		E 26		6.07	7 22	E 49		5 70	
3/5/2019		5.20	F 00	0.07	1.22	5.46	E 9/	5.72	
3/0/2019			5.99				5.64		
3/26/2019									5.00
3/27/2019									5.83
3/28/2019									
3/29/2019	5.34								
4/1/2019									
4/2/2019					6.94	5.74			
4/3/2019		5.47	6.29	5.71					
4/4/2019							5.64	5.66	
6/12/2019									
8/19/2019									
8/20/2019									5.58
8/21/2019									
8/22/2019									
9/24/2019					6.87				
9/25/2019	5.19			5.86		5.49			
9/26/2019		5.2	6.04					5.52	
9/27/2019							5.77		
10/8/2019									5.59
10/9/2019									
2/10/2020									
2/11/2020		5.3	6.07			5.58			
2/12/2020	5.48	-	-	6	7.13				
3/17/2020				-					5.57
3/18/2020	5 38								0.07
3/19/2020	0.00								
3/24/2020		5 33	5.08	5 86	6 35	5 57			
3/24/2020		5.33	5.30	5.00	0.00	3.37			
3/23/2020							E 60	E E 1	
3/20/2020							5.09	0.0 I	

	YGWA-14S (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)
5/6/2020									
8/26/2020									
8/27/2020									4.88
9/22/2020									5.46
9/23/2020		5.29 (D)	6.01 (D)			5.58 (D)		5.64	
9/24/2020				5.8 (D)	6.7 (D)		5.51		
9/25/2020	5.44								
10/7/2020									
2/8/2021									
2/9/2021		5.43	6.12	5.86	6.95		5.61	5.69	
2/10/2021	5.35								
2/11/2021									
2/12/2021									
3/1/2021									5.48
3/2/2021	5.49								
3/3/2021		5.31	5.89	5.89		5.52		5.7	
3/4/2021					6.8		5.44		

Constituent: pH (S.U.) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
8/27/2008									,
3/3/2009									
11/18/2009									
3/3/2010									
3/10/2011									
9/8/2011									
3/5/2012									
9/10/2012									
3/10/2012									
2/0/2013									
0/12/2013									
2/5/2014									
8/3/2015									
2/10/2010									
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016	5.64								
8/31/2016		7.27							
9/1/2016			5.78						
9/2/2016				5.84					
9/13/2016					7.41				
9/14/2016									
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					7.12				
11/8/2016									
11/14/2016				6.28					
11/15/2016			5.81						
11/16/2016	6.21	6.79							
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				
1/17/2017									
2/21/2017									
2/22/2017									
2/24/2017		6.39							

Constituent: pH (S.U.) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
2/27/2017	6.09		5.68						
2/28/2017				5.99					
3/1/2017									
3/2/2017									
3/3/2017					7.22				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					7.21				
5/1/2017									
5/2/2017									
5/8/2017									
5/9/2017			6.18	6.3					
5/10/2017	5.79	6.5							
5/26/2017					7.13				
6/27/2017									
6/28/2017					7.06				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017	5.45	6.32							
7/13/2017			5.6	5.57					
7/17/2017									
9/22/2017				5.5					
9/29/2017				5.58					
10/3/2017					6.99				
10/4/2017									
10/5/2017									
10/6/2017				5.51					
10/10/2017									
10/11/2017			5.61	5.47		6.4			
10/12/2017	5 48	5 97					4 94	4 85	5 43
10/16/2017	0.10	0.07							0.10
11/20/2017						6.33		4 87	51
11/21/2017						0.00	4 69		0.1
1/10/2018							4.00		4 97
1/11/2018						6 29	1 73		4.07
1/12/2018						0.23	4.75	4 78	
2/10/2018							4.96	4.70	5.6
2/20/2018						7 22	4.50	5 1	5.0
3/27/2018						1.22		5.1	
3/28/2018					73				
3/20/2010					1.5				
3/20/2010				5 51					
1/2/2019				J.J I					
41212010						6 87	5 31	4 76	5.84
4/3/2010	5.03	6.41	5.08			0.07	3.31	4.70	5.04
4/4/2010 6/5/2019	J.33	0.41	3.30						
0/5/2018									

	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
6/6/2018									
6/7/2018					7.29				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				5.5					
6/27/2018							4.78		
6/28/2018						6 18		4 75	5 24
8/6/2018						0.10			0.2.
8/7/2018						6.08	4 77	1 72	5 18
0/10/2018						0.00	4.77	1.72	0.10
0/20/2018	5.62	E 60	E 67						
9/20/2018	5.05	5.09	5.07			E 01	4 70	4.67	E 14
9/24/2018						0.01	4.70	4.07	5.14
9/25/2018									
9/26/2018				5.53					
9/2//2018									
10/1/2018					7.07				
10/2/2018									
2/25/2019									
2/26/2019									
2/27/2019					7.27				
3/4/2019									
3/5/2019									
3/6/2019				5.21					
3/26/2019									5.3
3/27/2019	5.57					5.84		4.79	
3/28/2019		5.96	5.86				5		
3/29/2019					7.06				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				5.74					
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019		5.84				5.96			5.26
8/22/2019	5.61	0.04				0.00	1 89	/ 81	0.20
9/24/2019	5.01				7.01		4.05	4.01	
0/25/2010					7.01				
9/25/2019			FC	E E 1					
9/20/2019			5.0	5.51					
9/27/2019									
10/8/2019									
10/9/2019	5.5	5.78				5.81	4.86	4.8	5.22
2/10/2020									
2/11/2020					7.38				
2/12/2020						5.97			5.3
3/17/2020									
3/18/2020									
3/19/2020					7.22				
3/24/2020									5.29
3/25/2020	5.53	5.79	5.69	5.49		5.78	4.87	4.89	
3/26/2020									

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#### Constituent: pH (S.U.) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
5/6/2020									
8/26/2020									
8/27/2020									
9/22/2020									
9/23/2020					7.22				
9/24/2020	5.55		5.62			5.7 (D)			5.43 (D)
9/25/2020		5.75					4.95	4.9	
10/7/2020				5.86					
2/8/2021									
2/9/2021		5.86	5.79					5.04	
2/10/2021	5.65			6.31	7.29	5.8	4.98		5.19
2/11/2021									
2/12/2021									
3/1/2021									
3/2/2021									
3/3/2021					7.92				
3/4/2021	5.59	5.88	5.88	5.67		5.54	4.69	5.01	5.23
Constituent: Sulfate (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)
6/1/2016	12	5	4.2						
6/2/2016				20	6.6	5.8	1.3	1.9	8
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	8.4		3.7				1.2		
7/26/2016		5.4		20	6.1	6.7		1.8	7.7
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		2.9	5.2						
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									
11/1/2016	8.9	3.9				4.9	1.3		
11/2/2016				20	6.3				8.2
11/3/2016									
11/4/2016			5					2	
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017					5.9				
1/11/2017	8.6	3.7				4.5			
1/12/2017				19				1.9	
1/13/2017									8.1
1/16/2017			7.9				<1		
1/17/2017									
2/21/2017							1.4		
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	9.3								
3/2/2017		4.6	7.4			4.4			
3/3/2017									
3/6/2017									8
3/7/2017				20				2.1	
3/8/2017					7				
3/9/2017									
4/26/2017	11				7	5.1	1.4		
4/27/2017		5.2	7.4						
4/28/2017									
5/1/2017				20					8.4

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)
5/2/2017								2	
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		59	64	18				21	
6/29/2017	10	5.5	0.4	10		E 4		2.1	
6/20/2017	12					5.4			0.0
6/29/2017					0.5				9.2
6/30/2017					6.5		<1		
////2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		6.6	5.9	16				2.3	
10/4/2017	12					6.2	1.4		
10/5/2017					7.9				9.6
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
10/10/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018		6.4							
6/6/2018			4.4	8.3					
6/7/2018						6.7		2	8.5
6/8/2018	9.6				6.4				
6/11/2018							1.1		
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2019									
8/7/2010									
0/10/2010									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				7.9				2.3	10.2
9/27/2018									
10/1/2018	9.1	5.6	4		6.8	7.1			

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)
10/2/2018							1		
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		8	4.3						
3/29/2019					7.3				
4/1/2019	8.5					7.2	0.96 (J)		
4/2/2019									
4/3/2019				7				2.1	8.5
4/4/2019									
6/12/2019									
9/24/2019		5.3	4.3	5.5				2.4	
9/25/2019	13.8				6.6	7	0.81 (J)		8.5
9/26/2019									
9/27/2019									
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		
3/24/2020				5.9				2.1	
3/25/2020									8.8
3/26/2020									
9/22/2020				5.5				2.1	8.2
9/23/2020	16.8	8.1	3.4			6.9			
9/24/2020							0.69 (J)		
9/25/2020					6.1				
10/7/2020									
3/1/2021							0.88 (J)		
3/2/2021				2.6	6			2.3	
3/3/2021	9.6	9	4.4			7			7.8
3/4/2021									

	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
6/1/2016									
6/2/2016									
6/6/2016	1.2	1.8							
6/7/2016			56	5.2	<1	4.4			
6/8/2016							<1		
7/25/2016									
7/26/2016									
7/27/2016	1.7	1.9			(L) 80.0	4.7			
7/28/2016			57	51					
8/1/2016				0.1			11		
8/30/2016								160	980
8/31/2016								100	500
9/1/2016									
0/2/2016									
9/2/2010									
9/13/2010									
9/14/2016									
9/15/2016		4.7				4.0			
9/16/2016	1.0	1.7		4.0	0.00 (1)	4.8			
9/19/2016	1.8			4.8	0.08 (J)				
9/20/2016			68				0.38 (J)		
11/1/2016									
11/2/2016					0.1 (J)				
11/3/2016	0.69 (J)	1.9		5		5.3			
11/4/2016									
11/8/2016			79				0.39 (J)		
11/14/2016								150	
11/15/2016									
11/16/2016									940
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			72						
1/17/2017							<1		
2/21/2017									
2/22/2017									
2/24/2017								120	
2/27/2017									940
2/28/2017									
3/1/2017	1.8	<1							
3/2/2017						5			
3/3/2017									
3/6/2017				4.5	<1				
3/7/2017									
3/8/2017							0.29 (J)		
3/9/2017			69						
4/26/2017	1.6	1.9		4.9	<1				
4/27/2017									
4/28/2017									
5/1/2017									

5/0/0017	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
5/2/2017			60			5	0.29 (J)	100	
5/8/2017								120	
5/9/2017									
5/10/2017									1200
5/26/2017									
6/27/2017									
6/28/2017	<1	<1							
6/29/2017				5.5	<1	5.2			
6/30/2017									
7/7/2017							0.37 (J)		
7/10/2017			57						
7/11/2017								110	1300
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017				5.8					
10/0/2017		17		0.0	<1	53			
10/5/2017	16	1.7				5.5	-1		
10/5/2017	1.0								
10/6/2017									
10/10/2017								93	
10/11/2017			52						
10/12/2017									1100
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018								88.8	
4/3/2018									
4/4/2018									1020
6/5/2018				61					
6/6/2018				0.1	0.049 (.1)				
6/7/2018	0.68 ( 1)				0.040 (0)				
6/8/2018	0.00 (0)								
6/11/2018		0.05 (1)				5.0			
0/11/2010		0.30 (J)	41.4			J.Z	0.25 (1)		
0/12/2018			41.4				U.35 (J)		
6/13/2018									
6/2//2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018								75	
9/20/2018									810
9/24/2018									
9/25/2018	1	1.5		7	0.13 (J)	6.1			
9/26/2018							0.28 (J)		
9/27/2018			39.6						
10/1/2018									

	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								65.9	831
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019				3.8		5.1			
4/3/2019	0.82 (J)	1.3			0.12 (J)				
4/4/2019			27.9				0.29 (J)		
6/12/2019									
9/24/2019				1					
9/25/2019					<1	5.5			
9/26/2019	0.64 (J)	1					0.23 (J)		
9/27/2019			30.3						
10/8/2019								52.3	
10/9/2019									725
3/17/2020								71.6	
3/18/2020									
3/19/2020									
3/24/2020	<1	0.99 (J)		3	<1	5.4			
3/25/2020									642
3/26/2020			36.5				<1		
9/22/2020								51.5	
9/23/2020	0.53 (J)	1.1				5.1	<1		
9/24/2020			52.5	3.6	<1				579
9/25/2020									
10/7/2020									
3/1/2021								51.6	
3/2/2021									
3/3/2021	<1	1			<1	5.2	<1		
3/4/2021			61.7 (M1)	4.5					537

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Constituent: Sulfate (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	29	34							
9/1/2016			95						
9/2/2016				72					
9/13/2016									
9/14/2016					94				
9/15/2016					0.1				
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/1/2016									
11/2/2016									
11/3/2016					10				
11/4/2016					15				
11/8/2016				110					
11/14/2016				110					
11/15/2016		0.40	94						
11/16/2016		240							
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				
1/17/2017									
2/21/2017									
2/22/2017	43								
2/24/2017		89							
2/27/2017			84						
2/28/2017				110					
3/1/2017									
3/2/2017									
3/3/2017					8.8				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					10				
5/1/2017									

#### Constituent: Sulfate (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
5/2/2017									
5/8/2017	60								
5/9/2017			91	130					
5/10/2017		100							
5/26/2017					12				
6/27/2017									
6/28/2017					11				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		110							
7/13/2017			88	140					
7/17/2017	63								
9/22/2017				160					
9/29/2017				160					
10/3/2017					7.9				
10/4/2017									
10/5/2017									
10/6/2017				160					
10/10/2017				100					
10/11/2017			86	150		20			
10/12/2017		120	00	130		20	940	400	17
10/16/2017	62	120					540	400	17
10/10/2017	02					24	090		71
11/20/2017						24	980	420	/1
1//21/2017								430	66
1/10/2018						00		200	00
1/11/2018						23	000	390	
1/12/2018							880		57.0
2/19/2018	64.6					20.0	005	414	57.2
2/20/2018						20.6	905		
4/2/2018						04.5	070	400	10.1
4/3/2018						24.5	8/2	406	49.4
4/4/2018		160	/6.5						
6/5/2018									
6/6/2018									
6/7/2018					8.8				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				144					
6/2//2018								357	10.0
6/28/2018						22	869		43.8
8/6/2018	42.1								
8/7/2018						20.7	879	346	40.5
9/19/2018									
9/20/2018		247	84.1						
9/24/2018						21.2	872	358	39.7
9/25/2018									
9/26/2018				160					
9/27/2018									
10/1/2018					9.1				

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
10/2/2018									
2/25/2019	42.1								
3/26/2019									34.3
3/27/2019						17.7	851		
3/28/2019		181	82.8					258	
3/29/2019					9				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				119					
6/12/2019	83.4								
9/24/2019					9.1				
9/25/2019									
9/26/2019			80	84.8					
9/27/2019									
10/8/2019	128								
10/9/2019		279				15	708	263	27.9
3/17/2020	98.6								
3/18/2020									
3/19/2020					12.4				
3/24/2020									25.2
3/25/2020		164	76.1	58.8		14.3	483	214	
3/26/2020									
9/22/2020	145								
9/23/2020					11.8				
9/24/2020			77			11.7			22.9
9/25/2020		281					414	175	
10/7/2020				18.2					
3/1/2021									
3/2/2021	156								
3/3/2021					10.6				
3/4/2021		328	75.1	6.3		12	356	117	21.5

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)
6/1/2016	150	120	54						
6/2/2016				160	46	130	36	66	96
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	135		48				50		
7/26/2016		94		177	54	141		78	92
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		105	67						
9/14/2016	127			187				73	102
9/15/2016					54	153			
9/16/2016									
9/19/2016							35		
9/20/2016									
11/1/2016	75	44				92	<25		
11/2/2016				181	71				115
11/3/2016									
11/4/2016			60					75	
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
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		
1/17/2017									
2/21/2017							<25		
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
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				
3/9/2017									
4/26/2017	92				52	181	55		
4/27/2017		116	31						
4/28/2017									
5/1/2017				165					107

#### Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	YGWA-3I (ba)	YGWA-1D (ba)	YGWA-11 (ba)	YGWA-5D (ba)	YGWA-14S (ba)	YGWA-3D (ba)	YGWA-30I (ba)	YGWA-5I (ba)	YGWA-4I (ba)
5/2/2017	(-3)	(-3)	(-3)	(-3)	(-3)	(-3)	(-3)	103	
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
5/20/2017		80	40	190				72	
6/28/2017	100	89	42	109		160		73	
6/28/2017	126					169			70
6/29/2017							10		79
6/30/2017					45		42		
////2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		119	58	170				89	
10/4/2017	147					141	31		
10/5/2017					40				95
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
1/3/2018									
4/4/2018									
6/5/2018		107							
6/6/2018		127	06	151					
6/0/2018			30	151		05		140	00
6/7/2018	150				114	95		142	90
0/0/2010	100				114		50		
6/11/2018							59		
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				144				86	116
9/27/2018									
10/1/2018	138	117	60		50	165			

#### Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)
10/2/2018							57		
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		87	87						
3/29/2019					63				
4/1/2019	19 (J)					149	54		
4/2/2019									
4/3/2019				142				83	111
4/4/2019									
6/12/2019									
9/24/2019		124	54	129				79	
9/25/2019	159				64	157	51		117
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020			35		57				
3/19/2020	148	116				146	47		
3/24/2020				139				68	
3/25/2020									146
3/26/2020									
9/22/2020				104				75	83
9/23/2020	155	108	15			157			
9/24/2020							51		
9/25/2020					54				
10/7/2020									
3/1/2021							23		
3/2/2021				52	67			67	
3/3/2021	111	99	39			137			80
3/4/2021									

	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
6/1/2016									
6/2/2016									
6/6/2016	120	58							
6/7/2016			130	60	38	28			
6/8/2016							66		
7/25/2016									
7/26/2016									
7/27/2016	94	35			74	74			
7/28/2016			119	81					
8/1/2016							56		
8/30/2016								319	1650
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		35				67			
9/19/2016	92			68	45				
9/20/2016			132				53		
11/1/2016									
11/2/2016					53				
11/3/2016	104	48		61		41			
11/4/2016									
11/8/2016			146				58		
11/14/2016								280	
11/15/2016									
11/16/2016									1420
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			194						
1/17/2017							56		
2/21/2017									
2/22/2017									
2/24/2017								162	
2/27/2017									1640
2/28/2017									
3/1/2017	119	79							
3/2/2017						77			
3/3/2017									
3/6/2017				167	164				
3/7/2017									
3/8/2017							192		
3/9/2017			288						
4/26/2017	162	36		50	34				
4/27/2017									
4/28/2017									
5/1/2017									

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	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
5/2/2017			221			142	113	101	
5/8/2017								194	
5/9/2017									
5/10/2017									1630
5/26/2017									
6/27/2017									
6/28/2017	98	45							
6/29/2017				94	68	53			
6/30/2017									
7/7/2017							46		
7/10/2017			123						
7/11/2017								193	1800
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017				149					
10/4/2017		45			54	61			
10/5/2017	104	40			04	01	48		
10/6/2017	104						-0		
10/10/2017								175	
10/10/2017			100					175	
10/11/2017			100						
10/12/2017									1600
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018								192	
4/3/2018									
4/4/2018									1520
6/5/2018				109					
6/6/2018					79				
6/7/2018	68								
6/8/2018									
6/11/2018		74				70			
6/12/2018			115				79		
6/13/2018			110				,,,		
6/27/2018									
6/28/2018									
0/28/2018									
0/0/2018									
8/7/2018									
9/19/2018								186	
9/20/2018									1240
9/24/2018									
9/25/2018	109	63		122	73	86			
9/26/2018							59		
9/27/2018			105						
10/1/2018									

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								170	1100
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019				134		72			
4/3/2019	89	63			57				
4/4/2019			85				63		
6/12/2019									
9/24/2019				157					
9/25/2019					75	81			
9/26/2019	126	72					81		
9/27/2019			96						
10/8/2019								172	
10/9/2019									1170
3/17/2020								165	
3/18/2020									
3/19/2020									
3/24/2020	91	59		117	76	71			
3/25/2020									1200
3/26/2020			110				67		
9/22/2020								141	
9/23/2020	103	81				99	87		
9/24/2020			129	113	69				1060
9/25/2020									
10/7/2020									
3/1/2021								145	
3/2/2021									
3/3/2021	95	37			53	57	70		
3/4/2021			96	110					501

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Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	209	80							
9/1/2016			228						
9/2/2016				243					
9/13/2016				210					
9/14/2016					152				
9/15/2016					152				
9/15/2016									
9/10/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					148				
11/8/2016									
11/14/2016				272					
11/15/2016			211						
11/16/2016		112							
11/28/2016	102								
12/15/2016					191				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					180				
1/17/2017									
2/21/2017									
2/22/2017	164								
2/24/2017		147							
2/27/2017			382						
2/28/2017				306					
3/1/2017									
3/2/2017									
3/3/2017					156				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					130				
5/1/2017									

#### Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
5/2/2017									
5/8/2017	145								
5/9/2017			154	303					
5/10/2017		203							
5/26/2017					223				
6/27/2017									
6/28/2017					166				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		238							
7/13/2017		230	102	282					
7/13/2017	195		192	202					
0/22/2017	165			200					
9/22/2017				309					
9/29/2017				273	150				
10/3/2017					153				
10/4/2017									
10/5/2017									
10/6/2017				287					
10/10/2017									
10/11/2017			177	264		68			
10/12/2017		287					1360	636	74
10/16/2017	218								
11/20/2017						139	1390		179
11/21/2017								706	
1/10/2018									140
1/11/2018						153		701	
1/12/2018							1400		
2/19/2018	173							630	119
2/20/2018						87	1300		
4/2/2018									
4/3/2018						85	1390	660	106
4/4/2018		292	174						
6/5/2018									
6/6/2018									
6/7/2018					146				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				292					
6/27/2018								575	
6/28/2018						88	1310		112
8/6/2018	158								
8/7/2018	100					89	1340	574	103
9/19/2018						00	1040	074	100
9/20/2018		131	186						
9/24/2019			100			82	1400	588	107
3/24/2010 0/25/2019						<b>UZ</b>	1400	500	107
5/23/2010				777					
5/20/2018				211					
9/2//2018					155				
10/1/2018					155				

#### Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
10/2/2018									
2/25/2019	92								
3/26/2019									90
3/27/2019						75	1190		
3/28/2019		323	164					372	
3/29/2019					150				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				240					
6/12/2019	226								
9/24/2019					146				
9/25/2019									
9/26/2019			192	198					
9/27/2019									
10/8/2019	276								
10/9/2019		501				119	1100	440	98
3/17/2020	185								
3/18/2020									
3/19/2020					148				
3/24/2020									84
3/25/2020		352	130	164		158	883	428	
3/26/2020									
9/22/2020	281								
9/23/2020					161				
9/24/2020			187			170			77
9/25/2020		494					664	307	
10/7/2020				137					
3/1/2021									
3/2/2021	296								
3/3/2021					138				
3/4/2021		592	145	69		168	600	224	57

# FIGURE E.

# Appendix III Trend Tests - Prediction Limits Exceedances - Significant Results

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-21I (bg)	-0.006801	-60	-58	Yes	16	56.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-38	-4.08	-56	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-41	-2.779	-44	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-43	0.7481	72	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.118	59	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.0863	-67	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	1.232	68	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-0.9737	-45	-43	Yes	13	7.692	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-2.574	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-38	-30.07	-64	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-42	-11.87	-44	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-2.036	-56	-43	Yes	13	7.692	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	4.949	63	48	Yes	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.7865	60	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.1168	-63	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.3002	76	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.189	71	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.9116	-83	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.5003	-45	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.06529	-59	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.05699	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-18S (bg)	-0.05702	-88	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-21I (bg)	0.2015	107	81	Yes	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-39 (bg)	-0.2384	-89	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-5D (bg)	-0.09849	-78	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-3.687	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-12.05	-54	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-3.891	-96	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.09335	70	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-38	-145.1	-67	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-42	-113.1	-49	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-43	54	56	43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-25.19	-71	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	25.64	66	48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	1.091	76	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.4938	60	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-40 (bg)	-18.83	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-18.77	-74	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-38	-198	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-41	-134.8	-62	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-42	-168.3	-56	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-43	111.1	70	43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-14.88	-54	-43	Yes	13	0	n/a	n/a	0.01	NP

# Appendix III Trend Tests - Prediction Limits Exceedances - All Results

Constituent	Well	Slope	Calc	Critical	Sia	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/l)	YGWA-17S (bg)	-0 0002497	-11	-58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-34	-58	No	16	75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	-0 0003285	-14	-58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-15	-58	No	16	87.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-211 (bg)	-0.006801	-60	-58	Yes	16	56.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (ba)	0.002402	14	43	No	13	7.692	n/a	n/a	0.01	NP
Boron (ma/L)	YGWA-40 (bg)	-0.02279	-41	-43	No	13	0	n/a	n/a	0.01	NP
Boron (ma/L)	YGWA-41 (bg)	0	-17	-58	No	16	62.5	n/a	n/a	0.01	NP
Boron (ma/L)	YGWA-5D (ba)	0.0001974	12	58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	-0.0019	-46	-58	No	16	56.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-23S	-0.1172	-38	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-38	-4.08	-56	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-41	-2.779	-44	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-42	-1.536	-37	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-43	0.7481	72	43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.001291	-39	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	5	48	No	14	57 14	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.00131	-37	-58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0	-2	-58	No	16	25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-11 (bg)	0	-23	-58	No	16	68 75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21 (bg)	0	-23	-58	No	16	75	n/a	n/a	0.01	
Boron (mg/L)	YGWA-30L(bg)	0	-28	-58	No	16	81 25	n/a	n/a	0.01	
Boron (mg/L)	YGWA-3D (bg)	0	-20	-58	No	16	56.25	n/a	n/a	0.01	
Boron (mg/L)	YGWA-3L (bg)	0	-0	-58	No	16	87.5	n/a	n/a	0.01	
Calcium (mg/L)		0 119	-23	-30	Noc	16	07.5	n/a	n/a	0.01	
		0.02122	10	50	No	16	0	n/a	n/a	0.01	
Calcium (mg/L)		0.02122	67	50	Noc	16	0	n/a	n/a	0.01	
	VGW(A 205 (bg)	0.00145	-07	-50	No	16	0	n/a	n/a	0.01	
Calcium (mg/L)	YCWA 241 (bg)	4 222	54 69	50	No	10	•	n/a	n/a	0.01	
		1.232	10	<b>58</b>	res	10	0	n/a	n/a	0.01	
	YCWA 40 (bg)	0.4473	45	43	No	13	7 602	n/a	n/a	0.01	
		-0.9737	- <b>4</b> 0	-43	Ne	10	1.092	n/a	n/a	0.01	
		0.2746	37	56	NO	10	0	n/a	n/a	0.01	NP
		-2.5/4	-62	-38	res	16	0	n/a	n/a	0.01	
		0.09171	50	30	NO	10	0	n/a	11/a	0.01	
	rGwc-38	-30.07	-64	-43	res	13	0	n/a	n/a	0.01	NP
	1GWC-42	-11.07	-44	-43	Ves	13	7 000	n/a	n/a	0.01	NP
	FGWA-47 (bg)	-2.036	-00	-43	res	13	7.692	n/a	n/a	0.01	NP
		4.949	63	48	tes	14	7.143	n/a	n/a	0.01	NP
	YGWA-143 (bg)	-0.03039	-40	-30	NO	10	0	n/a	11/a	0.01	
		0.7865	60	58	res	16	0	n/a	n/a	0.01	NP
		-0.1168	-03	-58	tes	16	0	n/a	n/a	0.01	NP
		0.5792	38	58	NO	10	0	n/a	n/a	0.01	NP
	YGWA-30I (bg)	0	-0	-58	NO	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.7746	48	58	NO	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.43	27	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.3002	76	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.05099	35	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18S (bg)	0.2082	50	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.189	71	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-21I (bg)	-0.1117	-28	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.2329	13	43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.1751	26	43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-4I (bg)	0.1099	36	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.9116	-83	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5I (bg)	0	-1	-58	No	16	0	n/a	n/a	0.01	NP

# Appendix III Trend Tests - Prediction Limits Exceedances - All Results<sup>2</sup>

Constituent	Well	Slope	Calc.	Critical	<u>Sig.</u>	N	<u>%NDs</u>	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Chloride (mg/L)	YGWA-47 (bg)	-0.5003	-45	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.1272	29	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1626	30	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	-0.02735	-40	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.02869	-33	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.05296	-45	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-21	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.06529	-59	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.05699	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-24SA	0.4282	54	58	No	16	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-17S (bg)	-0.005007	-36	-74	No	19	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-18I (bg)	-0.01164	-23	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-18S (bg)	-0.05702	-88	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-20S (bg)	0.03	81	81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-21I (bg)	0.2015	107	81	Yes	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-39 (bg)	-0.2384	-89	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-40 (bg)	0.005552	4	58	No	16	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-4I (bg)	-0.02017	-44	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-5D (bg)	-0.09849	-78	-74	Yes	19	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-5I (bg)	0	-7	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWC-41	0.04117	13	53	No	15	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-47 (bg)	-0.0262	-37	-48	No	14	0	n/a	n/a	0.01	NP
pH (S.U.)	GWA-2 (bg)	-0.03439	-128	-139	No	29	0	n/a	n/a	0.01	NP
DH (S.U.)	YGWA-14S (bg)	-0.003962	-13	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-1D (bg)	-0.06046	-60	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-11 (bg)	-0.05767	-78	-81	No	20	0	n/a	n/a	0.01	NP
рн (с.с.) рн (S.U.)	YGWA-2I (bg)	0.005696	10	81	No	20	0	n/a	n/a	0.01	NP
DH (S.U.)	YGWA-30I (bg)	0.002608	7	81	No	20	0	n/a	n/a	0.01	NP
nH (SU)	YGWA-3D (bg)	-0.006892	-11	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-3I (bg)	-0.03856	-36	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0 1322	51	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0 2007	-54	-58	No	16	25	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18S (bg)	-0 1939	-48	-58	No	16	12.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	24	58	No	16	62.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-211 (bg)	-0 2852	-25	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-3 687	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-12 05	-54	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-41 (bg)	0 1751	39	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-3 891	-96	-58	Vac	16	0	n/a	n/a	0.01	ND
Sulfate (mg/L)	YGWA-51 (bg)	0.09335	70	58	Vac	16	0	n/a	n/a	0.01	ND
Sulfate (mg/L)	VGWC-38	-145 1	-67	-43	Vae	13	0	n/a	n/a	0.01	ND
Sulfate (mg/L)	VGWC-42	-143.1	-07	-43	Vae	13	0	n/a	n/a	0.01	ND
Sulfate (mg/L)	VGWC-43	54	-45	43	Vae	13	0	n/a	n/a	0.01	ND
Sulfate (mg/L)	VGWA-47 (bg)	-25 19	-71	-13	Vae	13	0	n/a	n/a	0.01	ND
Sulfate (mg/L)		25.15		49	Voc	14	0	n/a	n/a	0.01	
		0.00460	17	<b>+0</b>	Ne	14	0	n/a	n/a	0.01	
Sulfate (mg/L)		0.09469	17	58	NO	10	0	n/a	n/a	0.01	
		0.2047	/ <b>0</b>	50	Ne	16	0	n/a	n/a	0.01	
		-0.2941	-20	-50	No	10	0	11/a n/o	n/a	0.01	
Sulfate (IIIQ/L)	VGWA-21 (bg)	0.1720	20	50	INO	10	10 5	n/a	n/a	0.01	
Sunate (IIIQ/L)	COVA-SUI (Dg)	-0.08892	-20 60	-JO		10	12.5	11/d	n/a	0.01	
		0.4938	00	50	Tes	10	U	11/a	n/a	0.01	
Sunate (mg/L)	YGWA-3I (Dg)	0.6094	45	50	NO	16	U	n/a	n/a	0.01	NP
		4.826	22	58	NO	16	U	n/a	n/a	0.01	
	rGvvA-18I (bg)	-2.316	-19	-58	NO	10	U	n/a	n/a	0.01	NP
i otai Dissolved Solids (mg/L)	YGVVA-18S (bg)	3.74	25	58	No	16	U	n/a	n/a	0.01	NP

# Appendix III Trend Tests - Prediction Limits Exceedances - All Results<sup>3</sup>

Constituent	Well	Slope	Calc.	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Total Dissolved Solids (mg/L)	YGWA-20S (bg)	3.156	31	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)	15.05	46	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	17.14	28	43	No	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-40 (bg)	-18.83	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-4I (bg)	1.119	8	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-18.77	-74	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5I (bg)	-1.204	-7	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-38	-198	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-41	-134.8	-62	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-42	-168.3	-56	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-43	111.1	70	43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-14.88	-54	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-2 (bg)	29.32	40	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-14S (bg)	2.021	18	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)	1.869	13	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1I (bg)	-3.828	-26	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-2I (bg)	-3.302	-32	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-30I (bg)	2.131	17	58	No	16	12.5	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)	1.956	12	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3I (bg)	0.9644	5	58	No	16	0	n/a	n/a	0.01	NP

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Constituent: Boron Analysis Run 5/6/2021 8:49 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



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Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG



Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG



Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG



Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





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Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



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Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



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Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6







Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





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Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





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Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





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Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6







Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6









Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6







Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: pH Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Constituent: pH Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6







Constituent: pH Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: pH Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Constituent: pH Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG





Constituent: pH Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: pH Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Constituent: pH Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG





Constituent: pH Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: pH Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Constituent: pH Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG





Constituent: pH Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: pH Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Constituent: pH Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG





Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



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Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6







Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6







Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6







Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG



Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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 Constituent: Total Dissolved Solids
 Analysis Run 5/6/2021
 8:51 PM
 View: Appendix III - Trend Tests

 Plant Yates
 Client: Southern Company
 Data: Plant Yates AMA-R6



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6







Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG





Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6







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Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.28 Groundwater Stats Consulting. UG



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

# FIGURE F.

# Upper Tolerance Limits Summary Table

Constituent	Upper Lim.	Lower Lim.	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Mean</u>	Std. Dev.	<u>%NDs</u>	ND Adj.	Transform	<u>Alpha</u>	Method
Antimony (mg/L)	0.0047	n/a	n/a	315	n/a	n/a	86.03	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	n/a	363	n/a	n/a	77.96	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.071	n/a	n/a	363	n/a	n/a	3.03	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0005	n/a	n/a	347	n/a	n/a	81.27	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.0005	n/a	n/a	347	n/a	n/a	95.68	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	n/a	n/a	315	n/a	n/a	77.46	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	n/a	n/a	360	n/a	n/a	69.72	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	6.92	n/a	n/a	342	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	0.68	n/a	n/a	362	n/a	n/a	68.51	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	0.0013	n/a	n/a	317	n/a	n/a	82.65	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	342	n/a	n/a	27.49	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.0002	n/a	n/a	278	n/a	n/a	93.17	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.014	n/a	n/a	306	n/a	n/a	59.8	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	345	n/a	n/a	91.59	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	298	n/a	n/a	96.64	n/a	n/a	NaN	NP Inter(NDs)

# FIGURE G.

	YATES AMA	-R6 GWPS			
		CCR-Rule	Federal	State	
Constituent Name	MCL	Specified	Limit	GWPS	GWPS
Antimony, Total (mg/L)	0.006		0.0047	0.006	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01	0.01
Barium, Total (mg/L)	2		0.071	2	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4	4
Lead, Total (mg/L)		0.015	0.0013	0.015	0.0013
Lithium, Total (mg/L)		0.04	0.03	0.04	0.03
Mercury, Total (mg/L)	0.002		0.0002	0.002	0.002
Molybdenum, Total (mg/L)		0.1	0.014	0.1	0.014
Selenium, Total (mg/L)	0.05		0.005	0.05	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002	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.

## Federal Confidence Intervals - Significant Results

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	<u>Sig.</u>	<u>N</u>	Mean	Std. Dev.	<u>%NDs</u>	ND Adj.	Transform	<u>Alpha</u>	Method
Beryllium (mg/L)	YGWC-38	0.005497	0.004113	0.004	Yes	14	0.004743	0.001073	0	None	x^2	0.01	Param.
Selenium (mg/L)	YGWC-38	0.249	0.076	0.05	Yes	14	0.1755	0.07444	0	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-37	0.3047	0.2211	0.05	Yes	11	0.2629	0.0502	0	None	No	0.01	Param.

## Federal Confidence Intervals - All Results

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	<u>Sig.</u>	<u>N</u>	Mean	Std. Dev.	<u>%NDs</u>	<u>ND Adj.</u>	Transform	<u>Alpha</u>	Method
Antimony (mg/L)	YAMW-1	0.025	0.00037	0.006	No	5	0.006874	0.0102	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	YGWC-23S	0.003	0.00085	0.006	No	16	0.002541	0.0009916	81.25	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-38	0.003	0.00061	0.006	No	13	0.002312	0.001105	69.23	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-41	0.003	0.0014	0.006	No	13	0.002877	0.0004438	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-42	0.003	0.00053	0.006	No	13	0.00281	0.0006851	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-43	0.003	0.00031	0.006	No	13	0.002793	0.0007461	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-49	0.003	0.0011	0.006	No	13	0.002664	0.0008287	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-35	0.003	0.00039	0.006	No	5	0.002478	0.001167	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	PZ-37	0.003	0.0014	0.006	No	11	0.002614	0.0008911	81.82	None	No	0.006	NP (NDs)
Antimony (mg/L)	YGWC-24SA	0.003	0.0009	0.006	No	16	0.002869	0.000525	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-36A	0.0041	0.0014	0.006	No	16	0.004256	0.006491	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-23S	0.005	0.0012	0.01	No	18	0.004789	0.0008957	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-38	0.00212	0.0007623	0.01	No	14	0.001676	0.001497	14.29	None	ln(x)	0.01	Param.
Arsenic (mg/L)	YGWC-41	0.005	0.00062	0.01	No	14	0.00288	0.002208	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-42	0.003139	0.00143	0.01	No	14	0.002355	0.001306	14.29	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	YGWC-43	0.005	0.00099	0.01	No	14	0.004086	0.001819	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-49	0.005	0.00086	0.01	No	13	0.004035	0.001835	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-35	0.005	0.00069	0.01	No	6	0.003608	0.002158	66.67	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	PZ-37	0.005	0.0008	0.01	No	11	0.002504	0.001995	36.36	None	No	0.006	NP (normality)
Arsenic (mg/L)	YGWC-24SA	0.005	0.0015	0.01	No	18	0.004806	0.000825	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-36A	0.005	0.00088	0.01	No	18	0.004041	0.001847	77.78	None	No	0.01	NP (NDs)
Barium (mɑ/L)	YAMW-1	0.04981	0.02919	2	No	6	0.0395	0.007503	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-23S	0.04499	0.02913	2	No	18	0.03706	0.01311	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-38	0.0239	0.01832	2	No	14	0.02111	0.003941	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-41	0.03029	0.0206	2	No	14	0.02544	0.00684	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-42	0.04675	0.03191	2	No	14	0.03933	0.01047	0	None	No	0.01	Param
Barium (mg/L)	YGWC-43	0.03572	0.01774	2	No	14	0.02673	0.01269	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-49	0.07999	0.06987	2	No	13	0.07493	0.006807	0	None	No	0.01	Param.
Barium (mg/L)	P7-35	0.063	0.032	2	No	6	0.04	0.01166	0	None	No	0.0155	NP (normality)
Barium (mg/L)	P7-37	0.05778	0.04078	2	No	- 11	0.04928	0.0102	0	None	No	0.01	Param
Barium (mg/L)	YGWC-24SA	0.0203	0.0189	2	No	18	0.02053	0.003411	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-36A	0.04411	0.03184	2	No	18	0.03797	0.01014	0	None	No	0.01	Param
Bendlium (mg/L)	YAMW-1	0.0005	0.000058	0 004	No	6	0.0004047	0.0001776	66 67	None	No	0.0155	
Beryllium (mg/L)	YAMW-5	0.0002156	0.00005244	0.004	No	4	0.000134	0.00003593	10	None	No	0.01	Param
Beryllium (mg/L)	YGWC-23S	0.0005	0.000081	0.004	No	18	0.0002109	0.0001859	27 78	None	No	0.01	NP (normality)
Benyllium (mg/L)	YGWC-38	0.005497	0.004113	0.004	Vee	14	0.0002100	0.001073	0	None	×^2	0.01	Param
Beryllium (mg/L)	YGWC-41	0.003457	0.002	0.004	No	14	0.003	0.000862	0	None	No	0.01	NP (normality)
Bonyllium (mg/L)	YGWC 42	0.0005	0.002	0.004	No	14	0.0003503	0.000002	64 20	None	No	0.01	
Benyllium (mg/L)	YGWC 43	0.00053	0.000007	0.004	No	14	0.0003303	0.0002087	42.86	None	No	0.01	NP (normality)
Benyllium (mg/L)	YGWC 40	0.00033	0.0003	0.004	No	14	0.0004200	0.000100	42.00	None	No	0.01	NP (normality)
Beryllium (mg/L)	PZ 25	0.00013	0.0001	0.004	No	7	0.0001408	0.00011088	29.57	Kaplan Mojor	No	0.01	Dorom
Benyllium (mg/L)	FZ-33	0.0004301	0.0002224	0.004	No	1	0.0003071	0.0001160	10.10		No	0.01	Param
Beryllium (mg/L)	FZ-37	0.0003551	0.0002091	0.004	No	10	0.0003355	0.0001009	10.10	Napa	No	0.01	Parani.
Beryllium (mg/L)	YGWC-24SA	0.00016	0.0001	0.004	NO	18	0.0001811	0.000149	10.07	None	NO	0.01	NP (normality)
Beryllium (mg/L)	YGWC-36A	0.0003195	0.0001904	0.004	NO No	18	0.0002549	0.0001067	5.550	None	NO	0.0155	Param.
Cadmium (mg/L)	YAMVV-1	0.0005	0.00013	0.005	NO	6	0.0003233	0.000194	50	None	NO	0.0155	NP (normality)
Cadmium (mg/L)	YGWC-23S	0.0005	0.00007	0.005	No	18	0.0004761	0.0001014	94.44	None	No	0.01	NP (NDs)
	YGWC-38	0.002798	0.002139	0.005	NO N-	14	0.00235	0.0004449	U 29.57	None	x^4	0.01	Param.
Cadmium (mg/L)	YGWC-41	0.0005	0.00017	0.005	No	14	0.0002886	0.0001446	28.57	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-42	0.0006	0.00017	0.005	No	14	0.0003764	0.0001667	42.86	None	NO	0.01	NP (normality)
Cadmium (mg/L)	YGWC-49	0.0005	0.00007	0.005	No	13	0.0004669	0.0001193	92.31	None	No	0.01	NP (NDs)
Cadmium (mg/L)	PZ-35	0.0005	0.00016	0.005	No	6	0.0004433	0.0001388	83.33	None	No	0.0155	NP (NDs)
Cadmium (mg/L)	PZ-37	0.0006329	0.0002453	0.005	No	11	0.0004727	0.0002328	18.18	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	YGWC-36A	0.0005	0.00015	0.005	No	18	0.0002433	0.0001453	22.22	None	No	0.01	NP (normality)
Chromium (mg/L)	YAMW-1	0.001163	0.0003768	U.1	No	4	0.00077	0.0001732	0	None	No	0.01	Param.
Chromium (mg/L)	YGWC-23S	0.005	0.0008	0.1	No	14	0.003296	0.002061	57.14	None	No	0.01	NP (NDs)

## Federal Confidence Intervals - All Results

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	<u>Sig.</u>	N	Mean	Std. Dev.	<u>%NDs</u>	ND Adj.	Transform	<u>Alpha</u>	Method
Chromium (mg/L)	YGWC-38	0.005	0.00065	0.1	No	14	0.004368	0.001607	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-41	0.005	0.00039	0.1	No	14	0.004671	0.001232	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-42	0.005	0.0013	0.1	No	14	0.004095	0.001807	78.57	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-43	0.005	0.00071	0.1	No	14	0.003755	0.002043	71.43	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-49	0.002	0.0014	0.1	No	12	0.001958	0.0009839	8.333	None	No	0.01	NP (normality)
Chromium (mg/L)	PZ-35	0.0012	0.0006	0.1	No	4	0.0007775	0.0002852	0	None	No	0.0625	NP (normality)
Chromium (mg/L)	PZ-37	0.005	0.0017	0.1	No	11	0.004055	0.001633	72.73	None	No	0.006	NP (NDs)
Chromium (mg/L)	YGWC-24SA	0.005	0.0011	0.1	No	14	0.004153	0.001684	78.57	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-36A	0.005	0.0013	0.1	No	14	0.004034	0.001699	71.43	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YAMW-1	0.02859	0.004268	0.035	No	7	0.01643	0.01106	28.57	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	YGWC-41	0.005	0.00069	0.035	No	14	0.003742	0.002072	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-42	0.0025	0.0017	0.035	No	14	0.0022	0.0008927	7.143	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-43	0.005	0.0016	0.035	No	14	0.00325	0.001688	42.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-49	0.005	0.0006	0.035	No	13	0.003654	0.002103	69.23	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-35	0.0059	0.005	0.035	No	6	0.00515	0.0003674	83.33	None	No	0.0155	NP (NDs)
Cobalt (mg/L)	PZ-37	0.0129	0.004336	0.035	No	11	0.008618	0.005139	0	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-36A	0.005	0.0006	0.035	No	18	0.003761	0.002058	72.22	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YAMW-1	0.8723	0.2073	6.92	No	5	0.5398	0.1984	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-23S	0.8108	0.3587	6.92	No	18	0.5848	0.3736	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-38	1.326	0.5981	6.92	No	14	0.962	0.5138	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-41	1.374	0.6299	6.92	No	14	1.032	0.5676	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-42	2.942	1.277	6.92	No	14	2.11	1.175	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-43	4.059	1.333	6.92	No	14	2.696	1.924	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-49	1.175	0.4779	6.92	No	13	0.8266	0.469	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-35	1.075	-0.04565	6.92	No	5	0.5146	0.3343	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37	2.039	1.437	6.92	No	11	1.749	0.4126	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-24SA	0.7865	0.4799	6.92	No	18	0.6332	0.2534	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-36A	1.095	0.5456	6.92	No	18	0.8205	0.4544	0	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-23S	0.12	0.049	4	No	19	0.09468	0.02023	84.21	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-38	0.24	0.034	4	No	15	0.1616	0.1178	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-41	0.11	0.1	4	No	15	0.1007	0.002582	86.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-42	0.1	0.06	4	No	15	0.08607	0.02601	73.33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-43	0.1159	0.05777	4	No	15	0.1069	0.05423	26.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-49	0.14	0.06	4	No	14	0.09929	0.02702	57.14	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-37	0.31	0.1	4	No	11	0.1773	0.1198	63.64	None	No	0.006	NP (NDs)
Fluoride (mg/L)	YGWC-24SA	0.1	0.098	4	No	19	0.09637	0.01535	89.47	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-36A	0.1	0.09	4	No	19	0.09242	0.03298	63.16	None	No	0.01	NP (NDs)
Lead (mg/L)	YAMW-1	0.001	0.00019	0.015	No	5	0.000838	0.0003622	80	None	No	0.031	NP (NDs)
Lead (mg/L)	YGWC-23S	0.001	0.00021	0.015	No	16	0.0008016	0.0003629	75	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-38	0.001	0.0001	0.015	No	14	0.0008071	0.0003832	78.57	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-41	0.0011	0.00012	0.015	No	14	0.0007541	0.0004218	64.29	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-42	0.001	0.00009	0.015	No	14	0.0007422	0.0004243	71.43	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-43	0.001	80000.0	0.015	No	14	0.0008682	0.000335	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-49	0.001	0.000059	0.015	No	13	0.0009276	0.000261	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-35	0.001	0.000087	0.015	No	5	0.0006474	0.0004833	60	None	No	0.031	NP (NDs)
Lead (mg/L)	PZ-37	0.001	0.000088	0.015	No	11	0.0006066	0.0004535	54.55	None	No	0.006	NP (NDs)
Lead (mg/L)	YGWC-24SA	0.001	0.00036	0.015	No	16	0.0009008	0.0002768	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-36A	0.000658	0.0002358	0.015	No	16	0.0004956	0.0004239	12.5	None	x^(1/3)	0.01	Param.
Lithium (mg/L)	YAMW-1	0.0235	0.0006154	0.04	No	6	0.01255	0.008417	16.67	Kaplan-Meier	No	0.01	Param.
Lithium (ma/L)	YGWC-23S	0.0026	0.0018	0.04	No	18	0.002994	0.003057	5.556	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-38	0.008994	0.007591	0.04	No	14	0.008293	0.0009903	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-41	0.0044	0.0025	0.04	No	14	0.004314	0.003188	7.143	None	No	0.01	NP (normalitv)
Lithium (mg/L)	YGWC-42	0.0478	0.02983	0.04	No	14	0.03881	0.01268	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-43	0.01912	0.01164	0.04	No	14	0.01538	0.005279	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-49	0.0039	0.0035	0.04	No	13	0.003708	0.0002465	0	None	No	0.01	NP (normality)
	-	-	-										. ,

## Federal Confidence Intervals - All Results

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	<u>Sig.</u>	<u>N</u>	Mean	Std. Dev.	<u>%NDs</u>	<u>ND Adj.</u>	Transform	<u>Alpha</u>	Method
Lithium (mg/L)	PZ-35	0.015	0.001	0.04	No	6	0.005133	0.006226	16.67	None	No	0.0155	NP (normality)
Lithium (mg/L)	PZ-37	0.03042	0.02345	0.04	No	11	0.02679	0.004677	9.091	None	x^2	0.01	Param.
Lithium (mg/L)	YGWC-36A	0.006884	0.003471	0.04	No	18	0.005478	0.002992	5.556	None	x^(1/3)	0.01	Param.
Mercury (mg/L)	YGWC-23S	0.0002	0.00015	0.002	No	13	0.0001883	0.00003045	5 84.62	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-38	0.0002	0.00008	0.002	No	11	0.0001743	0.00005804	81.82	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-41	0.0002	0.0002	0.002	No	11	0.0001873	0.00004221	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-42	0.0002	0.0002	0.002	No	11	0.0001862	0.00004583	8 90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-43	0.0002	0.0002	0.002	No	11	0.0001865	0.00004462	2 90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-49	0.0002	0.00014	0.002	No	10	0.0001801	0.0000459	80	None	No	0.011	NP (NDs)
Mercury (mg/L)	PZ-37	0.0002	0.0002	0.002	No	11	0.0001873	0.00004221	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	YAMW-1	0.004895	0.001572	0.1	No	4	0.004925	0.003462	25	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	YGWC-42	0.01	0.00094	0.1	No	14	0.00525	0.004314	42.86	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-43	0.01	0.0011	0.1	No	14	0.005679	0.004493	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-49	0.01	0.0007	0.1	No	12	0.009225	0.002685	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-35	0.01	0.0019	0.1	No	4	0.007975	0.00405	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	PZ-37	0.01	0.0016	0.1	No	11	0.004818	0.004118	36.36	None	No	0.006	NP (normality)
Molybdenum (mg/L)	YGWC-36A	0.01	0.0025	0.1	No	14	0.007071	0.003747	57.14	None	No	0.01	NP (NDs)
Selenium (mg/L)	YAMW-1	0.0025	0.0019	0.05	No	6	0.0024	0.0002449	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	YAMW-4	0.016	0.0018	0.05	No	4	0.0057	0.006875	50	None	No	0.0625	NP (normality)
Selenium (mg/L)	YAMW-5	0.08521	0.01079	0.05	No	4	0.048	0.01639	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-23S	0.03964	0.02677	0.05	No	18	0.03321	0.01064	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-38	0.249	0.076	0.05	Yes	14	0.1755	0.07444	0	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-41	0.06577	0.04363	0.05	No	14	0.0547	0.01563	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-42	0.05735	0.04038	0.05	No	14	0.04886	0.01198	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-49	0.00899	0.006583	0.05	No	13	0.007646	0.00198	7.692	None	x^2	0.01	Param.
Selenium (mg/L)	PZ-37	0.3047	0.2211	0.05	Yes	11	0.2629	0.0502	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-36A	0.002744	0.001829	0.05	No	18	0.002433	0.0005931	33.33	Kaplan-Meier	No	0.01	Param.

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Constituent: Antimony Analysis Run 5/6/2021 9:15 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Constituent: Antimony Analysis Run 5/6/2021 9:15 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Non-Parametric Confidence Interval



Constituent: Arsenic Analysis Run 5/6/2021 9:15 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Constituent: Arsenic Analysis Run 5/6/2021 9:15 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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### Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.





Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 5/6/2021 9:15 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Constituent: Barium Analysis Run 5/6/2021 9:15 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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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: Beryllium Analysis Run 5/6/2021 9:15 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Constituent: Beryllium Analysis Run 5/6/2021 9:15 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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### Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 5/6/2021 9:15 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 5/6/2021 9:15 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Non-Parametric Confidence Interval

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Constituent: Chromium Analysis Run 5/6/2021 9:15 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Constituent: Chromium Analysis Run 5/6/2021 9:15 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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### Parametric and Non-Parametric (NP) Confidence Interval





Constituent: Cobalt Analysis Run 5/6/2021 9:15 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/6/2021 9:15 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/6/2021 9:15 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Constituent: Combined Radium 226 + 228 Analysis Run 5/6/2021 9:15 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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### 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 5/6/2021 9:15 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Fluoride Analysis Run 5/6/2021 9:15 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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#### Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 5/6/2021 9:15 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Constituent: Lead Analysis Run 5/6/2021 9:15 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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### 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: Lithium Analysis Run 5/6/2021 9:16 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/6/2021 9:16 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Constituent: Mercury Analysis Run 5/6/2021 9:16 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Constituent: Mercury Analysis Run 5/6/2021 9:16 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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### Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/6/2021 9:16 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Molybdenum Analysis Run 5/6/2021 9:16 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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#### Parametric Confidence Interval

Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/6/2021 9:16 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Constituent: Selenium Analysis Run 5/6/2021 9:16 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6
# FIGURE I.

# State Confidence Intervals - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 9:21 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	<u>Sig.</u>	<u>N</u>	Mean	Std. Dev.	<u>%NDs</u>	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	YGWC-38	0.005497	0.004113	0.004	Yes	14	0.004743	0.001073	0	None	x^2	0.01	Param.
Selenium (mg/L)	YGWC-38	0.249	0.076	0.05	Yes	14	0.1755	0.07444	0	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-37	0.3047	0.2211	0.05	Yes	11	0.2629	0.0502	0	None	No	0.01	Param.

# State Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 9:21 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	<u>%NDs</u>	<u>ND Adj.</u>	Transform	<u>Alpha</u>	Method
Antimony (mg/L)	YAMW-1	0.025	0.00037	0.006	No	5	0.006874	0.0102	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	YGWC-23S	0.003	0.00085	0.006	No	16	0.002541	0.0009916	81.25	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-38	0.003	0.00061	0.006	No	13	0.002312	0.001105	69.23	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-41	0.003	0.0014	0.006	No	13	0.002877	0.0004438	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-42	0.003	0.00053	0.006	No	13	0.00281	0.0006851	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-43	0.003	0.00031	0.006	No	13	0.002793	0.0007461	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-49	0.003	0.0011	0.006	No	13	0.002664	0.0008287	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-35	0.003	0.00039	0.006	No	5	0.002478	0.001167	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	PZ-37	0.003	0.0014	0.006	No	11	0.002614	0.0008911	81.82	None	No	0.006	NP (NDs)
Antimony (mg/L)	YGWC-24SA	0.003	0.0009	0.006	No	16	0.002869	0.000525	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-36A	0.0041	0.0014	0.006	No	16	0.004256	0.006491	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-23S	0.005	0.0012	0.01	No	18	0.004789	0.0008957	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-38	0.00212	0.0007623	0.01	No	14	0.001676	0.001497	14.29	None	ln(x)	0.01	Param.
Arsenic (mg/L)	YGWC-41	0.005	0.00062	0.01	No	14	0.00288	0.002208	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-42	0.003139	0.00143	0.01	No	14	0.002355	0.001306	14.29	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	YGWC-43	0.005	0.00099	0.01	No	14	0.004086	0.001819	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-49	0.005	0.00086	0.01	No	13	0.004035	0.001835	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-35	0.005	0.00069	0.01	No	6	0.003608	0.002158	66.67	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	PZ-37	0.005	0.0008	0.01	No	11	0.002504	0.001995	36.36	None	No	0.006	NP (normality)
Arsenic (mg/L)	YGWC-24SA	0.005	0.0015	0.01	No	18	0.004806	0.000825	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-36A	0.005	0.00088	0.01	No	18	0.004041	0.001847	77.78	None	No	0.01	NP (NDs)
Barium (mg/L)	YAMW-1	0.04981	0.02919	2	No	6	0.0395	0.007503	0	None	No	0.01	Param.
Barium (mɑ/L)	YGWC-23S	0.04499	0.02913	2	No	18	0.03706	0.01311	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-38	0.0239	0.01832	2	No	14	0.02111	0.003941	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-41	0.03029	0.0206	2	No	14	0.02544	0.00684	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-42	0.04675	0.03191	2	No	14	0.03933	0.01047	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-43	0.03572	0.01774	2	No	14	0.02673	0.01269	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-49	0.07999	0.06987	2	No	13	0.07493	0.006807	0	None	No	0.01	Param.
Barium (mg/L)	PZ-35	0.063	0.032	2	No	6	0.04	0.01166	0	None	No	0.0155	NP (normality)
Barium (mg/L)	PZ-37	0.05778	0.04078	2	No	- 11	0.04928	0.0102	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-24SA	0.0203	0.0189	2	No	18	0 02053	0.003411	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-36A	0.04411	0.03184	2	No	18	0.03797	0.01014	0	None	No	0.01	Param
Bervllium (mg/L)	YAMW-1	0.0005	0.000058	- 0.004	No	6	0 0004047	0.0001776	66 67	None	No	0.0155	NP (NDs)
Beryllium (mg/L)	YAMW-5	0.0002156	0 00005244	0.004	No	4	0.000134	0.00003593	3.0	None	No	0.01	Param
Beryllium (mg/L)	YGWC-23S	0.0005	0.000081	0.004	No	18	0.0002109	0.0001859	27 78	None	No	0.01	NP (normality)
Beryllium (mg/l )	YGWC-38	0.005497	0.004113	0.004	Yes	14	0.004743	0.001073	0	None	x^2	0.01	Param.
Beryllium (ma/L)	YGWC-41	0.0038	0.002	0.004	No	14	0.003	0.000862	0	None	No.	0.01	NP (normality)
Beryllium (mg/L)	YGWC-42	0.0005	0.000067	0.004	No	14	0.0003503	0.0002087	64 29	None	No	0.01	
Beryllium (mg/L)	YGWC-43	0.00053	0.0003	0.004	No	14	0.0004286	0.000133	12.86	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-49	0.00033	0.0003	0.004	No	13	0.0004200	0.0001088	7 602	None	No	0.01	NP (normality)
Beryllium (mg/L)	P7-35	0.00013	0.0001	0.004	No	7	0.0001400	0.0001188	28.57	Kanlan-Meier	No	0.01	Param
Beryllium (mg/L)	PZ-37	0.0004301	0.0002224	0.004	No	' 11	0.0003355	0.0001069	18 18	Kaplan-Meier	No	0.01	Param
Bonyllium (mg/L)	YGWC 2484	0.00016	0.0002031	0.004	No	10	0.0001911	0.000140	16.67	Nono	No	0.01	ND (normality)
Beryllium (mg/L)	YCWC 264	0.00010	0.0001	0.004	No	10	0.0001511	0.000149	10.07 E EEC	None	No	0.01	Derem
Codmium (mg/L)	YANNA 1	0.0005195	0.0001904	0.004	No	10	0.0002349	0.0001067	5.550	None	No	0.0155	Parani.
Cadmium (mg/L)	TAMW-1	0.0005	0.00013	0.005	NO No	0	0.0003233	0.000194	50	None	No	0.0155	
Cadmium (mg/L)	YGWC-23S	0.0005	0.00007	0.005	NO	18	0.0004761	0.0001014	94.44	None	NO	0.01	NP (NDS)
Cadmium (mg/L)	YGWC-38	0.002798	0.002139	0.005	NO	14	0.00235	0.0006149	0	None	x^4	0.01	Param.
Cadmium (mg/L)	YGWC-41	0.0005	0.00017	0.005	NO No	14	0.0002886	0.0001446	28.57	None	NO	0.01	NP (normality)
	rGWC-42	0.0006	0.00017	0.005	NO	14	0.0003764	0.0001667	42.86	None	INO	0.01	NP (normality)
Caomium (mg/L)	rGWC-49	0.0005	0.00007	0.005	NO	13	0.0004669	0.0001193	92.31	ivone	INO	0.01	
	PZ-35	0.0005	0.00016	0.005	NO	6	0.0004433	0.0001388	83.33	None	INO	0.0155	NP (NDS)
Cadmium (mg/L)	PZ-37	0.0006329	0.0002453	0.005	No	11	0.0004727	0.0002328	18.18	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	YGWC-36A	0.0005	0.00015	0.005	No	18	0.0002433	0.0001453	22.22	None	No	0.01	NP (normality)
Chromium (mg/L)	YAMW-1	0.001163	0.0003768	U.1	No	4	0.00077	0.0001732	0	None	No	0.01	Param.
Chromium (mg/L)	YGWC-23S	0.005	0.0008	0.1	No	14	0.003296	0.002061	57.14	None	No	0.01	NP (NDs)

# State Confidence Intervals - All Results

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	<u>Sig.</u>	<u>N</u>	Mean	Std. Dev.	<u>%NDs</u>	ND Adj.	Transform	<u>Alpha</u>	Method
Chromium (mg/L)	YGWC-38	0.005	0.00065	0.1	No	14	0.004368	0.001607	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-41	0.005	0.00039	0.1	No	14	0.004671	0.001232	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-42	0.005	0.0013	0.1	No	14	0.004095	0.001807	78.57	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-43	0.005	0.00071	0.1	No	14	0.003755	0.002043	71.43	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-49	0.002	0.0014	0.1	No	12	0.001958	0.0009839	8.333	None	No	0.01	NP (normality)
Chromium (mg/L)	PZ-35	0.0012	0.0006	0.1	No	4	0.0007775	0.0002852	0	None	No	0.0625	NP (normality)
Chromium (mg/L)	PZ-37	0.005	0.0017	0.1	No	11	0.004055	0.001633	72.73	None	No	0.006	NP (NDs)
Chromium (mg/L)	YGWC-24SA	0.005	0.0011	0.1	No	14	0.004153	0.001684	78.57	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-36A	0.005	0.0013	0.1	No	14	0.004034	0.001699	71.43	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YAMW-1	0.02859	0.004268	0.035	No	7	0.01643	0.01106	28.57	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	YGWC-41	0.005	0.00069	0.035	No	14	0.003742	0.002072	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-42	0.0025	0.0017	0.035	No	14	0.0022	0.0008927	7.143	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-43	0.005	0.0016	0.035	No	14	0.00325	0.001688	42.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-49	0.005	0.0006	0.035	No	13	0.003654	0.002103	69.23	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-35	0.0059	0.005	0.035	No	6	0.00515	0.0003674	83.33	None	No	0.0155	NP (NDs)
Cobalt (mg/L)	PZ-37	0.0129	0.004336	0.035	No	11	0.008618	0.005139	0	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-36A	0.005	0.0006	0.035	No	18	0.003761	0.002058	72.22	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YAMW-1	0.8723	0.2073	6.92	No	5	0.5398	0.1984	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-23S	0.8108	0.3587	6.92	No	18	0.5848	0.3736	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-38	1.326	0.5981	6.92	No	14	0.962	0.5138	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-41	1.374	0.6299	6.92	No	14	1.032	0.5676	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-42	2.942	1.277	6.92	No	14	2.11	1.175	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-43	4.059	1.333	6.92	No	14	2.696	1.924	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-49	1.175	0.4779	6.92	No	13	0.8266	0.469	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-35	1.075	-0.04565	6.92	No	5	0.5146	0.3343	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37	2.039	1.437	6.92	No	- 11	1.749	0.4126	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-24SA	0.7865	0.4799	6.92	No	18	0.6332	0.2534	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-36A	1.095	0.5456	6.92	No	18	0.8205	0.4544	0	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-23S	0.12	0.049	4	No	19	0.09468	0.02023	84.21	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-38	0.24	0.034	4	No	15	0.1616	0.1178	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-41	0.11	0.1	4	No	15	0.1007	0.002582	86.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-42	0.1	0.06	4	No	15	0.08607	0.02601	73 33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-43	0 1159	0.05777	4	No	15	0 1069	0.05423	26.67	Kanlan-Meier	sart(x)	0.01	Param
Fluoride (mg/L)	YGWC-49	0.14	0.06	4	No	14	0.09929	0.02702	57 14	Kaplan-Meier	No.	0.01	NP (NDs)
Fluoride (mg/L)	P7-37	0.31	0.1	4	No	11	0 1773	0 1198	63.64	None	No	0.006	NP (NDs)
Fluoride (mg/L)	YGWC-24SA	0.1	0.098	4	No	19	0.09637	0.01535	89.47	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-364	0.1	0.030	4	No	10	0.09242	0.013308	63.16	None	No	0.01	
Lood (mg/L)		0.001	0.00010	- 0.0012	No	5	0.00242	0.000250	90	None	No	0.031	
Lead (mg/L)		0.001	0.00019	0.0013	No	J 16	0.0008016	0.0003022	75	None	No	0.031	
Lead (mg/L)	YGWC 28	0.001	0.00021	0.0013	No	14	0.0008010	0.0003029	79 57	None	No	0.01	
Lead (mg/L)	YGWC 41	0.001	0.0001	0.0013	No	14	0.0007541	0.0003032	64.20	None	No	0.01	
Lead (mg/L)	YGWC 42	0.001	0.00012	0.0013	No	14	0.0007341	0.0004210	71 42	None	No	0.01	
Lead (mg/L)	YGWC 42	0.001	0.00009	0.0013	No	14	0.0007422	0.0004243	71.43	None	No	0.01	
Lead (mg/L)	YGWC-43	0.001	0.00008	0.0013	NO	14	0.0008082	0.000335	00.04	None	NO	0.01	NP (NDs)
Lead (mg/L)	YGWC-49	0.001	0.000059	0.0013	NO	13	0.0009276	0.000261	92.31	None	NO	0.01	NP (NDS)
Lead (mg/L)	PZ-35	0.001	0.000087	0.0013	No	5	0.0006474	0.0004833	60	None	No	0.031	NP (NDs)
Lead (mg/L)	PZ-37	0.001	0.000088	0.0013	NO	11	0.0006066	0.0004535	54.55	None	NO	0.006	NP (NDS)
Lead (mg/L)	YGWC-24SA	0.001	0.00036	0.0013	No	16	0.0009008	0.0002768	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-36A	0.000658	0.0002358	0.0013	NO	16	0.0004956	0.0004239	12.5	None	x^(1/3)	0.01	Param.
Litnium (mg/L)	YAMW-1	0.0235	0.0006154	0.03	No	б	0.01255	0.008417	16.67	Kaplan-Meier	No	0.01	Param.
Litnium (mg/L)	YGWC-23S	0.0026	0.0018	0.03	No	18	0.002994	0.003057	5.556	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-38	0.008994	0.007591	0.03	No	14	0.008293	0.0009903	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-41	0.0044	0.0025	0.03	No	14	0.004314	0.003188	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-42	0.0478	0.02983	0.03	No	14	0.03881	0.01268	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-43	0.01912	0.01164	0.03	No	14	0.01538	0.005279	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-49	0.0039	0.0035	0.03	No	13	0.003708	0.0002465	0	None	No	0.01	NP (normality)

# State Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 9:21 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	<u>Sig.</u>	<u>N</u>	Mean	Std. Dev.	<u>%NDs</u>	ND Adj.	Transform	<u>Alpha</u>	Method
Lithium (mg/L)	PZ-35	0.015	0.001	0.03	No	6	0.005133	0.006226	16.67	None	No	0.0155	NP (normality)
Lithium (mg/L)	PZ-37	0.03042	0.02345	0.03	No	11	0.02679	0.004677	9.091	None	x^2	0.01	Param.
Lithium (mg/L)	YGWC-36A	0.006884	0.003471	0.03	No	18	0.005478	0.002992	5.556	None	x^(1/3)	0.01	Param.
Mercury (mg/L)	YGWC-23S	0.0002	0.00015	0.002	No	13	0.0001883	0.00003045	84.62	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-38	0.0002	80000.0	0.002	No	11	0.0001743	0.00005804	81.82	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-41	0.0002	0.0002	0.002	No	11	0.0001873	0.00004221	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-42	0.0002	0.0002	0.002	No	11	0.0001862	0.00004583	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-43	0.0002	0.0002	0.002	No	11	0.0001865	0.00004462	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-49	0.0002	0.00014	0.002	No	10	0.0001801	0.0000459	80	None	No	0.011	NP (NDs)
Mercury (mg/L)	PZ-37	0.0002	0.0002	0.002	No	11	0.0001873	0.00004221	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	YAMW-1	0.004895	0.001572	0.014	No	4	0.004925	0.003462	25	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	YGWC-42	0.01	0.00094	0.014	No	14	0.00525	0.004314	42.86	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-43	0.01	0.0011	0.014	No	14	0.005679	0.004493	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-49	0.01	0.0007	0.014	No	12	0.009225	0.002685	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-35	0.01	0.0019	0.014	No	4	0.007975	0.00405	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	PZ-37	0.01	0.0016	0.014	No	11	0.004818	0.004118	36.36	None	No	0.006	NP (normality)
Molybdenum (mg/L)	YGWC-36A	0.01	0.0025	0.014	No	14	0.007071	0.003747	57.14	None	No	0.01	NP (NDs)
Selenium (mg/L)	YAMW-1	0.0025	0.0019	0.05	No	6	0.0024	0.0002449	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	YAMW-4	0.016	0.0018	0.05	No	4	0.0057	0.006875	50	None	No	0.0625	NP (normality)
Selenium (mg/L)	YAMW-5	0.08521	0.01079	0.05	No	4	0.048	0.01639	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-23S	0.03964	0.02677	0.05	No	18	0.03321	0.01064	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-38	0.249	0.076	0.05	Yes	14	0.1755	0.07444	0	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-41	0.06577	0.04363	0.05	No	14	0.0547	0.01563	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-42	0.05735	0.04038	0.05	No	14	0.04886	0.01198	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-49	0.00899	0.006583	0.05	No	13	0.007646	0.00198	7.692	None	x^2	0.01	Param.
Selenium (mg/L)	PZ-37	0.3047	0.2211	0.05	Yes	11	0.2629	0.0502	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-36A	0.002744	0.001829	0.05	No	18	0.002433	0.0005931	33.33	Kaplan-Meier	No	0.01	Param.

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Constituent: Antimony Analysis Run 5/6/2021 9:19 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Constituent: Antimony Analysis Run 5/6/2021 9:19 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Arsenic Analysis Run 5/6/2021 9:19 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Constituent: Arsenic Analysis Run 5/6/2021 9:19 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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### Parametric Confidence Interval



Parametric and Non-Parametric (NP) Confidence Interval Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 5/6/2021 9:19 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Constituent: Barium Analysis Run 5/6/2021 9:19 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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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: Beryllium Analysis Run 5/6/2021 9:19 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Constituent: Beryllium Analysis Run 5/6/2021 9:19 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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### Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 5/6/2021 9:19 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 5/6/2021 9:19 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Constituent: Chromium Analysis Run 5/6/2021 9:19 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Constituent: Chromium Analysis Run 5/6/2021 9:20 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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### Parametric and Non-Parametric (NP) Confidence Interval

Parametric and Non-Parametric (NP) Confidence Interval Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/6/2021 9:20 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/6/2021 9:20 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/6/2021 9:20 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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### 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 5/6/2021 9:20 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Fluoride Analysis Run 5/6/2021 9:20 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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#### Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 5/6/2021 9:20 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Constituent: Lead Analysis Run 5/6/2021 9:20 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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### 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: Lithium Analysis Run 5/6/2021 9:20 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/6/2021 9:20 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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### Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/6/2021 9:20 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Molybdenum Analysis Run 5/6/2021 9:20 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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#### Parametric Confidence Interval

Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/6/2021 9:20 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Constituent: Selenium Analysis Run 5/6/2021 9:20 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



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