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Georgia Power

# 2024 Semiannual Groundwater Monitoring and Corrective Action Report

## Plant Yates – Ash Pond 2

## Newnan, Georgia

August 30, 2024

# 2024 Semiannual Groundwater Monitoring and Corrective Action Report

**Plant Yates – Ash Pond 2**
**Newman, Georgia**

August 30, 2024

**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
Newnan, Georgia
Coweta County

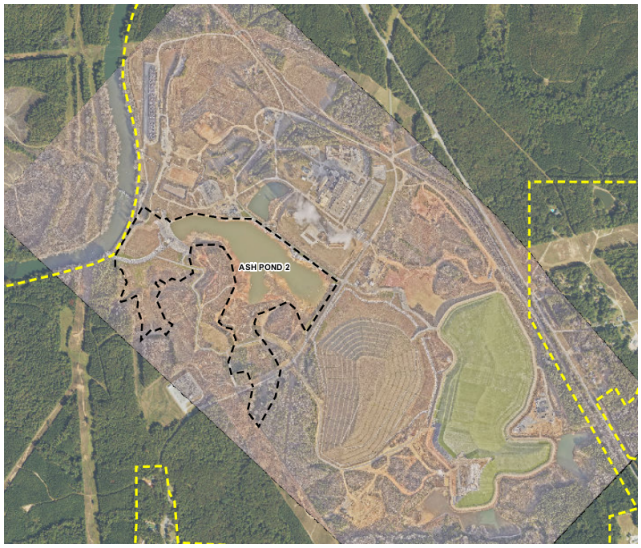
Alexandra Simpson
Senior Geologist

Geoff Gay, PE
Technical Expert (Eng), Vice President

# Summary

This summary of the 2024 Semiannual Monitoring and Corrective Action Report provides the status of groundwater monitoring and corrective action program from January to June 2024 at Georgia Power Company's (Georgia Power's) Plant Yates Ash Pond (AP) AP-2 (the Site). Arcadis U.S., Inc. (Arcadis) prepared this summary on behalf of Georgia Power to meet the requirements listed in Part A, Section 6[1] of the U.S. Environmental Protection Agency (USEPA) Coal Combustion Residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Yates is located at 708 Dyer Road, approximately 8 miles northwest of Newnan and 13 miles southeast of Carrollton in Coweta County, Georgia. Plant Yates originally operated seven coal-fired steam-generating units. Five of the units were retired in 2015, and two units were converted from coal to natural gas. CCR materials resulting from power generation have historically been transferred and stored at the Site. CCR Removal and the six-inch over dig for verification have been completed at Plant Yates AP-2. On July 11, 2023, the Georgia Environmental Protection Division (GAEPD) approved CCR permit (038-018D (CCR)) for Plant Yates AP-2. EPD acknowledged final removal of CCR at AP-2 on February 19, 2024.



*Plant Yates and the site*

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

During the January to June 2024 reporting period, Arcadis conducted one groundwater sampling event in February. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR rule, groundwater results for the February 2024 data were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III[2] parameters in wells provided in the table below. There were no statistically significant levels (SSLs) detected for Appendix IV[3] parameters[4]. During the 2024 semiannual reporting period, the Site remained in assessment monitoring.

[1] 80 FR 21468, Apr. 17, 2015, as amended at 81 FR 51807, Aug. 5, 2016; 83 FR 36452, July 30, 2018; 85 FR 53561, Aug. 28, 2020
[2] Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)
[3] Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228.
[4] A statistically significant level SSL-related constituent is determined by comparing the confidence intervals developed to either the constituent's MCL, if available, the USEPA RSL if no MCL is available, or the calculated background interwell prediction limit.

| Appendix III Parameter | February 2024 |
|---|---|
| Boron | YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29IB |
| Chloride | YGWC-26I, YGWC-26S, YGWC-27I, YGWC-28S |

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program for 2024, the Site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to the website and provided to GAEPD semiannually.

# Contents

**Summary** ..... i

**Acronyms and Abbreviations** ..... v

**Professional Certification** ..... vi

**1 Introduction** ..... 1

**1.1 Background** ..... 1

**1.2 Regional Geology and Hydrogeologic Setting** ..... 1

**1.3 Groundwater Monitoring Well Network and CCR Unit Description** ..... 2

**2 Groundwater Monitoring** ..... 2

**2.1 Monitoring Well Installation and Maintenance** ..... 3

**2.2 Assessment Monitoring** ..... 3

**3 Sampling Methodology and Analysis** ..... 3

**3.1 Groundwater Flow Direction, Gradient, and Velocity** ..... 3

**3.2 Groundwater Sampling** ..... 4

**3.3 Laboratory Analyses** ..... 5

**3.4 Data Quality Assurance/Quality Control and Validation** ..... 5

**4 Statistical Analysis** ..... 6

**4.1 Statistical Methods** ..... 6

**4.1.1 Appendix III Statistical Methods** ..... 6

**4.1.2 Assessment Monitoring Statistical Methods** ..... 6

**4.2 Statistical Analysis Results** ..... 7

**4.2.1 Appendix III Monitoring Constituents** ..... 7

**4.2.2 Appendix IV Assessment Monitoring Constituents** ..... 8

**5 Monitoring Program Status** ..... 8

**6 Conclusions and Future Actions** ..... 8

**7 References** ..... 8

# Tables

**Table 1. Monitoring Network Well Summary**

**Table 2. Groundwater Sampling Plan**

**Table 3. Summary of Groundwater Elevations – February 2024**

**Table 4. Groundwater Flow Velocity Calculations – February 2024**

**Table 5. Summary of Groundwater Monitoring Parameters**

**Table 6a. Groundwater Analytical Data – February 2024**

**Table 6b. Upgradient Groundwater Analytical Data – February 2024**

**Table 7. Background Levels and Groundwater Protection Standards**

# Figures

**Figure 1. Site Location Map**

**Figure 2. Plant Yates CCR Removal Areas**

**Figure 3. Well Location Map**

**Figure 4. Sitewide Groundwater Elevation Map – February 2024**

**Figure 5. Groundwater Elevation Map – February 2024**

# Appendices

**A Field Sampling Forms (February 2024)**

**B Well Installation Report (YGWC-29IB)**

**C Analytical Lab and Data Validation Reports (February 2024)**

**D Statistical Analysis (February 2024)**

# Acronyms and Abbreviations

| | |
|---|---|
| Arcadis | Arcadis, Inc. |
| AP | Ash Pond |
| CCR | Coal Combustion Residuals |
| CFR | Code of Federal Regulations |
| DO | dissolved oxygen |
| GAEPD | Georgia Environmental Protection Division |
| GPC | Georgia Power Company |
| GWPS | Groundwater Protection Standard |
| MCL | Maximum Contaminant Level |
| MDL | Method Detection Limit |
| mg/L | milligrams per liter |
| QA/QC | Quality Assurance/Quality Control |
| SSI | statistically significant increase |
| SSL | statistically significant level |
| TDS | total dissolved solids |
| USEPA | United States Environmental Protection Agency |

# Professional Certification

This 2024 Semiannual Groundwater Monitoring and Corrective Action Report, Plant Yates Ash Pond 2 (AP-2) has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule (40 Code of Federal Regulations [CFR] 257 Subpart D), specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Arcadis, U.S., Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4.01.

Arcadis U.S., Inc.

August 30, 2024

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

Date

# 1 Introduction

This 2024 Semiannual Groundwater Monitoring and Corrective Action Report documents groundwater monitoring conducted at the Georgia Power Company (GPC) Plant Yates Ash Pond (AP) AP-2 (the Site) in February 2024. This report was prepared in accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residuals (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D) and the Georgia Environmental Protection Division (GAEPD) Rules for Solid Waste Management 391-3-4-.10. Groundwater monitoring requirements for the Site are specified by GAEPD Rule 391-3-4-.10(6)(a), which also incorporates the USEPA CCR Rule. For ease of reference, the USEPA CCR Rules are cited within this report.

This report presents the results from the annual monitoring for Appendix III and IV constituents conducted in February 2024 in accordance with 40 CFR § 257.95.

## 1.1 Background

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

A permit application to comply with GAEPD rules was approved on July 11, 2023 (038-018D (CCR)). CCR Removal and the six-inch over dig for verification have been completed at Plant Yates AP-2. A certification of removal was submitted to GA EPD on November 18, 2023. EPD acknowledged final removal of CCR at AP-2 on February 19, 2024. AP-2 was placed in an assessment monitoring program based on results of the 2017 Annual Groundwater and Corrective Action Monitoring Report, which was implemented on January 15, 2018. A notice of assessment monitoring was placed in the operation record on May 15, 2018. Semiannual monitoring for the CCR unit is performed in accordance with the monitoring requirements 40 CFR § 257.90 through 257.95 of the Federal CCR Rule and the GAEPD rules for Solid Waste Management 391-3-4-.10(6)(a).

## 1.2 Regional Geology and Hydrogeologic Setting

Plant Yates is located in the Inner Piedmont Physiographic Province of western Georgia, immediately southeast of the Brevard Zone, a regional fault zone that separates the Piedmont from the Blue Ridge. Rock units at Plant Yates are primarily interlayered gneiss and schists. The rocks in the area have been subjected to extensive metamorphism, deformation, and igneous intrusions. Extensive fracture sets are present in the underlying bedrock. Surface expressions of these fractures are observed on topographic maps and aerial photos of the Plant Yates area (ACC 2023).

A thin layer of soil from 1 to 2 feet thick overlies a thick layer of saprolite. The saprolite, which extends to typical depths of 20 to 40 feet below ground surface, was formed in place by the physical and chemical weathering of the underlying metamorphic rocks. The saprolite typically consists of clay- and silt-rich soils that grade to sandier soils with depth. A zone of variable thickness (approximately 5 to 20 feet) of transitionally weathered rock typically

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

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

Field hydraulic conductivity tests (i.e., slug tests) have been performed in saprolite and weathered bedrock at multiple locations at the Site. The hydraulic conductivity at these locations is typically in a range from $10^{-3}$ to $10^{-4}$ centimeters per second based on multiple rising-head and falling-head slug tests (ACC 2023). This indicates a fairly uniform medium across the saprolite and weathered rock horizon. The hydraulic conductivity values from the field tests fall within a range consistent with that of Piedmont overburden (Newell et al. 1990).

## 1.3 Groundwater Monitoring Well Network and CCR Unit Description

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

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

# 2 Groundwater Monitoring

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed in February 2024 and presents the status of the monitoring program. Groundwater sampling was performed in accordance with 40 CFR § 257.93. Samples were collected from each well in the certified monitoring system shown on **Figure 3**.

**Table 2** summarizes groundwater sampling event conducted by Arcadis at AP-2 during this semiannual reporting period. During the February 2024 event, groundwater samples were collected and analyzed for both 40 CFR 257 Appendix III and 40 CFR 257 Appendix IV constituents to meet the requirement of 40 CFR § 257.95(b). Field sampling logs are provided in **Appendix A**.

## 2.1 Monitoring Well Installation and Maintenance

YGWC-29IB was installed on December 12, 2023 as a replacement well for YGWC-29IA due to additional dam construction along the river. The replacement well was sampled during the February 2024 monitoring event. A well installation report for YGWC-29IB was submitted to GAEPD on March 22, 2024 under separate cover and is included in **Appendix B**.

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

Monitoring wells are inspected during this reporting period to determine if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). In February 2024, monitoring wells were inspected to identify the need for corrective actions as documented in **Appendix A**. There were no maintenance issues during this period that required corrective action.

## 2.2 Assessment Monitoring

AP-2 was placed in an assessment monitoring program based on results of the 2017 Annual Groundwater and Corrective Action Monitoring Report, which was implemented on January 15, 2018. A notice of assessment monitoring was placed in the operation record on May 15, 2018. Monitoring wells at AP-2 were sampled for Appendix III and Appendix IV parameters in February 2024 pursuant to 40 CFR § 257.95(b) and 40 CFR § 257.95(d)(1). A summary of the groundwater sampling event is provided in **Table 2**.

# 3 Sampling Methodology and Analysis

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

## 3.1 Groundwater Flow Direction, Gradient, and Velocity

Before each sampling event, static water levels were recorded from piezometers and wells at AP-2 as noted in **Table 3**. Saprolite and transition zone groundwater elevation data were used to prepare potentiometric surface elevation contour maps from the February gauging event. A sitewide potentiometric surface map for February 2024 is provided on **Figure 4**. The AP-2 potentiometric surface map for February 2024 is provided on **Figure 5**. The groundwater flow direction for the saprolite and transition zone wells is generally northeast, southwest, and west toward AP-2 where it flows west to the Chattahoochee River. The groundwater flow direction is consistent with historical patterns. It is interpreted that variations between saprolite/transition zone wells and deep bedrock wells are attributed to bedrock geologic structural controls, and therefore do not reflect the surficial aquifer

potentiometric surface. Based on this interpretation, the deep bedrock potentiometric surface was not used for contouring.

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

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

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 2024 are presented in **Table 4**. The calculated average groundwater linear flow velocity is approximately 26 feet per year. These calculated groundwater velocities across the Site are generally consistent with historical calculations and with expected velocities in the site-specific geology, thereby, confirming the groundwater monitoring network is properly located to monitor the uppermost aquifer.

## 3.2 Groundwater Sampling

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

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

- ± 0.1 standard units for pH;
- ± 5% for specific conductance;
- Turbidity measurements less than 5 nephelometric turbidity units; and
- ±10% or ±0.2 mg/L (whichever is greater) for DO where DO >0.5 mg/L. If DO <0.5 mg/L no stabilization criteria apply.

Once stabilization was achieved, samples were collected directly into laboratory-supplied sample containers with preservative (where applicable). The samples were placed on ice in an insulated cooler following their collection.

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

## 3.3 Laboratory Analyses

Samples were submitted for laboratory analysis from each monitoring well as summarized in **Table 2**. During the February 2024 sampling event, the AP-2 wells were sampled and analyzed for Appendix III parameters as well as for Appendix IV parameters according to 40 CFR § 257.95(b). **Table 5** provides a summary of the constituents monitored during the events. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports, along with chain-of-custody records included in **Appendix C**.

Analytical data collected from AP-2 and the upgradient wells collected in compliance with the CCR Rule are summarized in **Tables 6a and 6c**. Additional geochemical parameters (i.e., alkalinity, cations) were collected during the February 2024 event; the data are summarized in **Tables 6b and 6d**. Laboratory analyses were performed by Pace Analytical Services, LLC, which is accredited by the National Environmental Laboratory Accreditation Program and maintains this certification for all parameters analyzed for this project.

## 3.4 Data Quality Assurance/Quality Control and Validation

During the sampling event, quality assurance/quality control (QA/QC) samples were collected at a rate of one per 10 samples. QA/QC samples included equipment blanks (where non-dedicated equipment is used), field blanks, and duplicate samples. Groundwater quality data in this report were validated in accordance with USEPA guidance (USEPA 2011) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate recoveries and relative percent differences, post-digestion spikes, laboratory and field duplicate relative percent differences, equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags have been applied to the data using USEPA procedures as guidance (USEPA 2017). The February 2024 data validation reports included in **Appendix C** 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 validated data meet project objectives and the associated data validation reports are provided in **Appendix C** along with the laboratory reports.

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

# 4 Statistical Analysis

Statistical analysis of Appendix III and IV groundwater monitoring data was performed on data from the assessment monitoring events pursuant to 40 CFR §§ 257.93–95 following the established, certified statistical methods. The statistical method used at the Site was developed in accordance with 40 CFR § 257.93(f) using methodology presented in Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance, March 2009, USEPA 530/R-09-007 (USEPA 2009).

## 4.1 Statistical Methods

The Sanitas™ groundwater statistical software was used to perform the statistical analyses. Sanitas™ is a decision support software package that incorporates the statistical tests required of Subtitle C and D facilities by USEPA regulations and guidance as recommended in the Unified Guidance document (USEPA 2009). Although assessment monitoring has been implemented, statistical evaluation of Appendix III constituents is performed to determine whether constituents have returned to background conditions.

### 4.1.1 Appendix III Statistical Methods

Groundwater data were evaluated using interwell prediction limits for Appendix III parameters. This method uses sitewide pooled upgradient monitoring well data to establish a background statistical limit. Data from the February 2024 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 exhibiting 100 percent non-detects.
- When data contained less than 15 percent non-detects in background, simple substitution of one half the reporting limit was used in the statistical analysis. The reporting limit used for non-detects is the practical quantification limit reported by the laboratory.
- When data contained between 15 to 50 percent non-detects, the Kaplan-Meier non-detect adjustment was applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Non-parametric prediction limits were used on data containing greater than 50 percent non-detects.

### 4.1.2 Assessment Monitoring Statistical Methods

Parametric tolerance limits were used to calculate background limits from pooled upgradient well data from the wells identified in **Table 1** for Appendix IV constituents with a target of 95 percent confidence and 95 percent coverage. When data contained greater than 50 percent non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits are were used. The confidence and coverage levels for non-parametric tolerance limits depend on the number of background samples. The background limits were then used

when determining the Groundwater Protection Standards (GWPS) established under 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a). USEPA revised the federal CCR Rule on July 30, 2018, updating GWPSs for cobalt, lead, lithium, and molybdenum. As described in § 257.95(h)(1-3), the GWPS is defined by the criteria below. These criteria were adopted into the GA EPD Rules for Solid Waste Management 391-3-4-.10 on February 22, 2022.

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.
- Where an MCL has not been established for the following constituents:
  - Cobalt: 0.006 milligram per liter (mg/L)
  - Lead: 0.015 mg/L
  - Lithium: 0.040 mg/L
  - Molybdenum: 0.100 mg/L.
- The background level for constituents for which the background level is higher than the MCL or rule identified GWPS.

GWPS have been established for statistical comparison of Appendix IV constituents at AP-2. **Table 7** summarizes the background levels established at the monitoring well for the February 2024 sampling event along with the GWPS.

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

## 4.2 Statistical Analysis Results

Appendix III statistical analysis for wells associated with the Site was performed to determine whether constituent concentrations have returned to background levels. Appendix IV assessment monitoring parameters were evaluated to determine whether concentrations statistically exceed the established GWPS. Appendix III and Appendix IV data from the February 2024 semiannual event were statistically analyzed in accordance with the Statistical Analysis Plan (Groundwater Stats 2019).

### 4.2.1 Appendix III Monitoring Constituents

Based on review of the Appendix III statistical analysis from the February 2024 sampling event presented in **Appendix D**, Appendix III concentrations have not returned to background levels, and assessment monitoring should continue pursuant to 40 CFR § 257.95(f). A table summarizing these constituents and wells is provided in **Appendix D**.

### 4.2.2 Appendix IV Assessment Monitoring Constituents

Statistical analysis of the February 2024 Appendix IV data was completed using the GWPS established according to both 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a). No SSLs were identified. Sanitas™ statistical output data for calculation of site-specific background concentrations and confidence intervals for each Appendix IV constituent in downgradient wells are provided in **Appendix D**.

# 5 Monitoring Program Status

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

# 6 Conclusions and Future Actions

Statistical evaluations of the groundwater monitoring data for the Site identified no exceedance of a GWPS for an Appendix IV constituent during the February 2024 sampling event. The next assessment monitoring event is scheduled for August 2024. The August semiannual monitoring event will include sampling and analysis of all Appendix III and IV constituents.

# 7 References

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# Tables

**Table 1**
**Monitoring Network Well Summary**
**2024 Semiannual Groundwater Monitoring and Corrective Action Report**
**Georgia Power Company**
**Plant Yates - AP-2**

| Well ID | Well Designation | Location | Northing | Easting | Ground Surface Elevation (ft) | Top of Casing Elevation (ft) | Top of Screen Elevation (ft) | Bottom of Screen Elevation (ft) | Total Well Depth (ft bTOC) | Groundwater Zone Screened | Installation Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| YGWA-4I | Detection | Upgradient | 1254436.68 | 2075455.62 | 781.9 | 784.21 | 745.70 | 735.70 | 48.81 | PWR/Transition Zone | 5/21/2014 |
| YGWA-5I | Detection | Upgradient | 1254399.95 | 2076218.86 | 782.1 | 784.54 | 735.90 | 725.90 | 58.94 | PWR/Transition Zone | 5/21/2014 |
| YGWA-5D | Detection | Upgradient | 1254396.67 | 2076223.63 | 781.9 | 784.53 | 706.00 | 656.00 | 129.13 | Deep Bedrock | 5/21/2014 |
| YGWA-17S | Detection | Upgradient | 1257602.79 | 2076758.31 | 780.2 | 783.05 | 753.20 | 743.20 | 39.85 | Saprolite | 9/10/2015 |
| YGWA-18S | Detection | Upgradient | 1257116.05 | 2077015.25 | 787.6 | 790.57 | 760.90 | 750.90 | 39.97 | Saprolite | 9/8/2015 |
| YGWA-18I | Detection | Upgradient | 1257090.05 | 2077015.82 | 787.6 | 790.57 | 720.90 | 710.90 | 79.97 | PWR/Transition Zone | 9/8/2015 |
| YGWA-20S | Detection | Upgradient | 1255531.55 | 2077410.37 | 764.6 | 767.12 | 747.90 | 737.90 | 29.52 | Saprolite | 9/29/2015 |
| YGWA-21I | Detection | Upgradient | 1255538.27 | 2076768.14 | 780.8 | 783.70 | 714.10 | 704.10 | 79.90 | PWR/Transition Zone | 9/28/2015 |
| YGWA-39 | Detection | Upgradient | 1255717.13 | 2073865.58 | 815.6 | 818.19 | 760.10 | 750.10 | 68.59 | Upper Fractured Bedrock | 7/7/2016 |
| YGWA-40 | Detection | Upgradient | 1255791.95 | 2073431.34 | 813.5 | 815.73 | 778.00 | 768.00 | 48.23 | Upper Fractured Bedrock | 7/7/2016 |
| YGWA-1I | Detection | Upgradient | 1256876.13 | 2070097.91 | 834.3 | 836.60 | 793.30 | 783.30 | 53.60 | PWR/Transition Zone | 5/20/2014 |
| YGWA-1D | Detection | Upgradient | 1256867.34 | 2070104.61 | 834.9 | 837.25 | 759.20 | 749.20 | 128.85 | Deep Bedrock | 5/20/2014 |
| YGWA-2I | Detection | Upgradient | 1256144.08 | 2070790.49 | 864.0 | 866.25 | 812.80 | 802.80 | 63.75 | PWR/Transition Zone | 5/20/2014 |
| YGWA-3I | Detection | Upgradient | 1256405.2 | 2072024.2 | 794.0 | 796.55 | 747.70 | 737.70 | 59.05 | PWR/Transition Zone | 5/20/2014 |
| YGWA-3D | Detection | Upgradient | 1256399.94 | 2072026.21 | 794.1 | 796.78 | 712.90 | 702.90 | 134.18 | Deep Bedrock | 5/20/2014 |
| YGWA-14S | Detection | Upgradient | 1257828.64 | 2072537.24 | 746.8 | 748.76 | 724.10 | 714.10 | 34.96 | Saprolite | 5/20/2014 |
| YGWA-30I | Detection | Upgradient | 1258421.86 | 2071107.11 | 760.1 | 762.58 | 713.40 | 703.40 | 59.48 | PWR/Transition Zone | 9/23/2015 |
| YGWA-47 | Detection | Upgradient | 1262411.84 | 2071818.05 | 755.6 | 758.22 | 709.60 | 699.60 | 59.19 | Bedrock | 7/11/2016 |
| GWA-2 | Detection | Upgradient | 1261383.11 | 2073509.98 | 803.1 | 805.62 | 763.80 | 753.80 | 52.02 | Bedrock | 4/12/2007 |
| YGWC-26S | Detection | Downgradient | 1259734.66 | 2070615.87 | 713.1 | 716.28 | 686.40 | 676.40 | 40.18 | Saprolite | 10/1/2015 |
| YGWC-26I | Detection | Downgradient | 1259725.79 | 2070613.56 | 713.1 | 715.91 | 656.40 | 646.40 | 69.81 | PWR/Transition Zone | 9/30/2015 |
| YGWC-27S | Detection | Downgradient | 1259417.12 | 2070454.17 | 713.0 | 716.52 | 686.30 | 676.30 | 40.52 | Saprolite | 10/7/2015 |
| YGWC-27I | Detection | Downgradient | 1259423.73 | 2070460.89 | 713.2 | 716.19 | 646.50 | 636.50 | 79.99 | PWR/Transition Zone | 10/7/2015 |
| YGWC-28S | Detection | Downgradient | 1259218.37 | 2070322.23 | 715.0 | 717.95 | 683.30 | 673.30 | 44.95 | Saprolite | 10/5/2015 |
| YGWC-28I | Detection | Downgradient | 1259226.47 | 2070328.27 | 715.0 | 717.93 | 658.30 | 648.30 | 69.93 | PWR/Transition Zone | 10/5/2015 |
| YGWC-29IB | Detection | Downgradient | 1259036.39 | 2070237.53 | 710.0 | 712.88 | 682.00 | 672.00 | 41.18 | PWR/Transition Zone | 12/14/2023 |
| PZ-1S | Piezometer | Downgradient | 1256871.97 | 2070101.24 | 834.5 | 836.84 | 810.80 | 800.80 | 36.34 | Saprolite | 5/20/2014 |
| PZ-3S | Piezometer | Downgradient | 1256410.86 | 2072021.63 | 794.0 | 796.39 | 764.30 | 754.30 | 42.39 | Saprolite | 5/20/2014 |
| PZ-13S | Piezometer | Downgradient | 1257849.98 | 2069810.25 | 805.5 | 807.79 | 774.30 | 764.30 | 43.79 | Saprolite | 5/20/2014 |
| PZ-13I | Piezometer | Downgradient | 1257850.3 | 2069817.1 | 805.4 | 807.62 | 758.70 | 748.70 | 59.22 | PWR/Transition Zone | 5/20/2014 |
| PZ-14I | Piezometer | Downgradient | 1257826.16 | 2072542.59 | 747.2 | 749.06 | 708.50 | 698.50 | 50.86 | PWR/Transition Zone | 5/20/2014 |
| PZ-31S | Piezometer | Downgradient | 1258313.7 | 2072820.25 | 735.9 | 738.62 | 714.02 | 704.02 | 34.72 | Saprolite | 9/24/2015 |

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

Northing and Easting Georgia State Plane West, NAD83

**Acronyms and Abbreviations:**
bTOC = below top of casing

ft = feet

PWR = Partially Weathered Rock

**Table 2**
**Groundwater Sampling Plan**
**2024 Semiannual Groundwater Monitoring and Corrective Action Report**
**Georgia Power Company**
**Plant Yates - AP-2**

| Well ID | Hydraulic Location | Semiannual Monitoring [1] |
|---|---|---|
| | | February 19 - 23, 2024 |
| YGWA-4I | Upgradient [2] | X |
| YGWA-5I | Upgradient [2] | X |
| YGWA-5D | Upgradient [2] | X |
| YGWA-17S | Upgradient [2] | X |
| YGWA-18S | Upgradient [2] | X |
| YGWA-18I | Upgradient [2] | X |
| YGWA-20S | Upgradient [2] | X |
| YGWA-21I | Upgradient [2] | X |
| YGWA-39 | Upgradient [2] | X |
| YGWA-40 | Upgradient [2] | X |
| YGWA-47 | Upgradient [2] | X |
| GWA-2 | Upgradient [2] | X |
| YGWA-1I | Upgradient | X |
| YGWA-1D | Upgradient | X |
| YGWA-2I | Upgradient | X |
| YGWA-3I | Upgradient | X |
| YGWA-3D | Upgradient | X |
| YGWA-14S | Upgradient | X |
| YGWA-30I | Upgradient | X |
| YGWC-26S | Downgradient | X |
| YGWC-26I | Downgradient | X |
| YGWC-27S | Downgradient | X |
| YGWC-27I | Downgradient | X |
| YGWC-28S | Downgradient | X |
| YGWC-28I | Downgradient | X |
| YGWC-29IB | Downgradient | X |

**Notes:**

1. All wells analyzed for Appendix III and Appendix IV.
2. Wells from other units comprising sitewide pooled upgradient network.

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

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

**Table 3**
**Summary of Groundwater Elevations - February 2024**
**2024 Semiannual Groundwater Monitoring and Corrective Action Report**
**Georgia Power Company**
**Plant Yates - AP-2**

| Well ID | Date | TOC Elevation (ft) | Depth to Water (bTOC) | Groundwater Elevation (ft) |
|---|---|---|---|---|
| **Downgradient Wells - February 2024** | | | | |
| YGWC-26S | 2/19/2024 | 716.28 | 26.00 | 690.28 |
| YGWC-26I | 2/19/2024 | 715.91 | 26.72 | 689.19 |
| YGWC-27S | 2/19/2024 | 716.52 | 28.32 | 688.2 |
| YGWC-27I | 2/19/2024 | 716.19 | 28.38 | 687.81 |
| YGWC-28S | 2/19/2024 | 717.95 | 27.28 | 690.67 |
| YGWC-28I | 2/19/2024 | 717.93 | 27.76 | 690.17 |
| YGWC-29IB | 2/19/2024 | 712.88 | 25.60 | 687.28 |
| PZ-01S | 2/19/2024 | 836.84 | 34.36 | 802.48 |
| PZ-03S | 2/19/2024 | 796.39 | 38.25 | 758.14 |
| PZ-13S | 2/19/2024 | 807.79 | 37.45 | 770.34 |
| PZ-13I | 2/19/2024 | 807.62 | 41.60 | 766.02 |
| PZ-14I | 2/19/2024 | 749.06 | 19.42 | 729.64 |
| PZ-25S | 2/19/2024 | 766.60 | 42.70 | 723.90 |
| PZ-25I | 2/19/2024 | 766.38 | 44.23 | 722.15 |
| PZ-31S | 2/19/2024 | 738.62 | 22.84 | 715.78 |
| **Upgradient Wells - February 2024** | | | | |
| YGWA-4I | 2/19/2024 | 784.21 | 25.20 | 759.01 |
| YGWA-5I | 2/19/2024 | 784.54 | 21.00 | 763.54 |
| YGWA-5D | 2/19/2024 | 784.53 | 20.07 | 764.46 |
| YGWA-17S | 2/19/2024 | 783.05 | 12.21 | 770.84 |
| YGWA-18S | 2/19/2024 | 790.57 | 22.11 | 768.46 |
| YGWA-18I | 2/19/2024 | 790.57 | 24.78 | 765.79 |
| YGWA-20S | 2/19/2024 | 767.12 | 11.25 | 755.87 |
| YGWA-21I | 2/19/2024 | 783.70 | 31.61 | 752.09 |
| YGWA-39 | 2/19/2024 | 818.19 | 21.03 | 797.16 |
| YGWA-40 | 2/19/2024 | 815.73 | 24.99 | 790.74 |
| YGWA-1I | 2/19/2024 | 836.60 | 39.56 | 797.04 |
| YGWA-1D | 2/19/2024 | 837.25 | 51.10 | 786.15 |
| YGWA-2I | 2/19/2024 | 866.25 | 46.92 | 819.33 |
| YGWA-3I | 2/19/2024 | 796.55 | 52.41 | 744.14 |
| YGWA-3D | 2/19/2024 | 796.78 | 33.15 | 763.63 |
| YGWA-14S | 2/19/2024 | 748.76 | 18.53 | 730.23 |
| YGWA-30I | 2/19/2024 | 762.58 | 45.23 | 717.35 |
| YGWA-47 | 2/19/2024 | 758.22 | 36.25 | 721.97 |
| GWA-2 | 2/19/2024 | 805.62 | 38.11 | 767.51 |

**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
TOC = top of casing

**Table 4**
**Groundwater Flow Velocity Calculation - February 2024**
**2024 Semiannual Groundwater Monitoring and Corrective Action Report**
**Georgia Power Company**
**Plant Yates - AP-2**

Equation

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

where:

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

Values Used in Calculation

| Value | | | Source |
|---|---|---|---|
| $K_{max}$: | 3.02E-03 | cm/sec | See note 1 |
| | 8.57 | ft/day | |
| $K_{min}$: | 1.00E-06 | cm/sec | |
| | 0.003 | ft/day | |
| $K_{avg}$ | 1.50E-04 | cm/sec | |
| | 0.43 | ft/day | |
| Distance from: | | | |
| PZ-01S to YGWA-14S | 2,610 | feet | |
| PZ-13S to YGWC-27S | 1,699 | feet | |
| YGWA-14S to PZ-31S | 575 | feet | |
| **Groundwater Elevation** | | | **Date Collected:** |
| PZ-01S | 802.48 | feet | February 2024 |
| YGWA-14S | 730.23 | | |
| PZ-13S | 770.34 | | |
| YGWC-28I | 690.17 | | |
| YGWA-14S | 730.23 | | |
| PZ-31S | 715.78 | | |
| | | | **Hydraulic gradient from:** |
| $i_1$ = 0.028 | | unitless | PZ-01S to YGWA-14S (Feb. 2024) |
| $i_2$ = 0.047 | | unitless | PZ-13S to YGWC-27S (Feb. 2024) |
| $i_3$ = 0.025 | | unitless | YGWA-14S to PZ-31S (Feb. 2024) |
| $i_{avg}$ = 0.033 | | unitless | Average |
| $n_e$ = 0.20 | | unitless | See note 2 |

**Table 4**
**Groundwater Flow Velocity Calculation - February 2024**
**2024 Semiannual Groundwater Monitoring and Corrective Action Report**
**Georgia Power Company**
**Plant Yates - AP-2**

Minimum Linear Flow Velocity

*February 2024*

$$V_{min} = \frac{(0.003)\ (0.033)}{0.20}$$

Maximum Linear Flow Velocity

*February 2024*

$$V_{max} = \frac{(8.57)\ (0.033)}{0.20}$$

$V_{min}$ = 0.0005 ft/day, or 0.18 ft/year

$V_{max}$ = 1.4 ft/day, or 511 ft/year

Average Linear Flow Velocity

*February 2024*

$$V_{avg} = \frac{(0.43)(0.033)}{0.2}$$

$V_{avg}$ = 0.07 ft/day, or 26 ft/year

**Notes:**

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

**Table 5**
**Summary of Groundwater Monitoring Parameters**
**2024 Semiannual Groundwater Monitoring and Corrective Action Report**
**Georgia Power Company**
**Plant Yates AP-2**

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

**Notes:**

CFR = Code of Federal Regulations

**Table 6a**
**Groundwater Analytical Data - February 2024**
**2024 Semiannual Groundwater Monitoring and Corrective Action Report**
**Georgia Power Company**
**Plant Yates - AP-2**

| Analyte | Units | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWC-29IB |
|---|---|---|---|---|---|---|---|---|
| | | 2/22/2024 | 2/22/2024 | 2/21/2024 | 2/21/2024 | 2/21/2024 | 2/21/2024 | 2/20/2024 |
| **Appendix III** | | | | | | | | |
| pH | SU | 5.92 | 5.58 | 6.43 | 6.26 | 6.43 | 6.49 | 6.01 |
| Boron | mg/l | 0.77 | 0.78 | 1.8 | 0.91 | 1.6 | 2.3 | 1.1 |
| Calcium | mg/l | 16.7 | 11 | 27.7 | 20.4 | 27.8 | 31 | 11.5 |
| Chloride | mg/l | 16 | 14.9 | 12.5 | 12.6 | 10.4 | 17.5 | 10.5 |
| Fluoride | mg/l | 0.057 J | < 0.050 | 0.082 J | 0.11 | 0.096 J | 0.15 | 0.075 J |
| Sulfate | mg/l | 80.7 | 89.3 | 3.8 | 13 | 8.5 | 3.9 | 26.9 |
| Total Dissolved Solids | mg/l | 215 | 188 | 194 | 149 | 213 | 235 | 146 |
| **Appendix IV** | | | | | | | | |
| Antimony | mg/l | < 0.00054 | < 0.00054 | < 0.00054 | < 0.00054 | < 0.00054 | < 0.00054 | < 0.00054 |
| Arsenic | mg/l | < 0.00084 | < 0.00084 | < 0.00084 | < 0.00084 | < 0.00084 | < 0.00084 | < 0.00084 |
| Barium | mg/l | 0.057 | 0.025 | 0.06 | 0.047 | 0.062 | 0.21 | 0.081 |
| Beryllium | mg/l | < 0.000094 | < 0.000094 | 0.00011 J | < 0.000094 | < 0.000094 | < 0.000094 | < 0.000094 |
| Cadmium | mg/l | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 | 0.00012 J |
| Chromium | mg/l | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 |
| Cobalt | mg/l | < 0.00032 | 0.0012 J | 0.016 | 0.0016 J | < 0.00032 | 0.00074 J | 0.0071 |
| Fluoride | mg/l | 0.057 J | < 0.050 | 0.082 J | 0.11 | 0.096 J | 0.15 | 0.075 J |
| Lead | mg/l | < 0.00016 | < 0.00016 | < 0.00016 | < 0.00016 | < 0.00016 | < 0.00016 | < 0.00016 |
| Lithium | mg/l | 0.0078 J | < 0.0016 | 0.0070 J | < 0.0016 | 0.0056 J | < 0.0016 | 0.0051 J |
| Mercury | mg/l | < 0.00013 | < 0.00013 | < 0.00013 | < 0.00013 | < 0.00013 | < 0.00013 | < 0.00013 |
| Molybdenum | mg/l | < 0.00062 | < 0.00062 | 0.0015 J | < 0.00062 | 0.0013 J | 0.00068 J | < 0.00062 |
| Combined Radium - 226/228 | pCi/l | 0.745 U | 0.303 U | 3.26 | 0.669 U | 0.447 U | 0.781 U | 0.871 U |
| Selenium | mg/l | 0.0041 J | < 0.00096 | < 0.00096 | < 0.00096 | < 0.00096 | < 0.00096 | < 0.00096 |
| Thallium | mg/l | < 0.00038 | < 0.00038 | < 0.00038 | < 0.00038 | < 0.00038 | < 0.00038 | < 0.00038 |
| **Other Parameters** | | | | | | | | |
| Alkalinity | mg/L as $CaCO_3$ | 31.3 | 15.3 | 136 | 95.3 | 152 | 178 | 68.1 |
| Alkalinity, Bicarbonate | mg/L as $CaCO_3$ | 31.3 | 15.3 | 136 | 95.3 | 152 | 178 | 68.1 |
| Alkalinity, Carbonate | mg/L as $CaCO_3$ | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Magnesium | mg/L | 12 | 15.7 | 15.2 | 7.6 | 16.2 | 22.3 | 11.6 |
| Potassium | mg/L | 2.5 | 0.8 | 4.4 | 1.5 | 5.7 | 4 | 3.7 |
| Sodium | mg/L | 23.8 | 18.2 | 11.6 | 17 | 9.3 | 11.3 | 15.8 |

**Notes:**
Appendix III = Consituents for Detection Monitoring - 40 CFR Part 257
Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257

**Acronyms and Abbreviations:**
mg/L = milligrams per liter
pCi/L = picoCuries per liter
< = Analyte was not detected above the laboratory method detection limit (MDL)
J: Estimated concentration above the method detection limit and below the reporting limit.
U: the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualifited by the laboratory as estimated.

**Table 6b**
**Upgradient Groundwater Analytical Data - February 2024**
**2024 Semiannual Groundwater Monitoring and Corrective Action Report**
**Georgia Power Company**
**Plant Yates - AP-2**

| Analyte | Units | GWA-2 2/20/2024 | YGWA-1I 2/20/2024 | YGWA-1D 2/20/2024 | YGWA-2I 2/20/2024 | YGWA-3I 2/20/2024 | YGWA-3D 2/20/2024 | YGWA-4I 2/20/2024 |
|---|---|---|---|---|---|---|---|---|
| **Appendix III** | | | | | | | | |
| pH | SU | 6.07 | 6.42 | 7.06 | 7.23 | 7.59 | 7.81 | 6.21 |
| Boron | mg/l | 0.017 J | 0.014 J | 0.015 J | < 0.012 | < 0.012 | < 0.012 | < 0.012 |
| Calcium | mg/l | 22.8 | 2.2 | 15.3 | 28.2 | 23.7 | 30.7 | 9.9 |
| Chloride | mg/l | 6.1 | 1.2 | 1 | 0.96 J | 1.1 | 1.1 | 4.6 |
| Fluoride | mg/l | 0.094 J | < 0.050 | 0.086 J | 0.1 | 0.12 | 0.45 | 0.059 J |
| Sulfate | mg/l | 75 | 4.3 | 9.7 | 23.1 | 13.8 | 7 | 8.5 |
| Total Dissolved Solids | mg/l | 214 | 59 | 130 | 159 | 220 | 294 | 140 |
| **Appendix IV** | | | | | | | | |
| Antimony | mg/l | 0.0026 J | < 0.00054 | 0.0023 J | 0.00067 J | < 0.00054 | < 0.00054 | 0.00061 J |
| Arsenic | mg/l | 0.0015 J | < 0.00084 | < 0.00084 | 0.0019 J | 0.0013 J | 0.0027 J | < 0.00084 |
| Barium | mg/l | 0.035 | 0.0040 J | 0.0062 | 0.0044 J | 0.0032 J | 0.0045 J | 0.014 |
| Beryllium | mg/l | < 0.000094 | < 0.000094 | < 0.000094 | < 0.000094 | < 0.000094 | < 0.000094 | < 0.000094 |
| Cadmium | mg/l | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 |
| Chromium | mg/l | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 |
| Cobalt | mg/l | 0.023 | 0.0018 J | 0.00055 J | < 0.00032 | < 0.00032 | < 0.00032 | < 0.00032 |
| Fluoride | mg/l | 0.094 J | < 0.050 | 0.086 J | 0.1 | 0.12 | 0.45 | 0.059 J |
| Lead | mg/l | < 0.00016 | < 0.00016 | < 0.00016 | < 0.00016 | < 0.00016 | < 0.00016 | < 0.00016 |
| Lithium | mg/l | 0.0024 J | < 0.0016 | 0.0071 J | 0.0021 J | 0.020 J | 0.021 J | 0.014 J |
| Mercury | mg/l | < 0.00013 | < 0.00013 | < 0.00013 | < 0.00013 | < 0.00013 | < 0.00013 | < 0.00013 |
| Molybdenum | mg/l | < 0.00062 | 0.03 | 0.0098 J | 0.0076 J | 0.0089 J | 0.013 | < 0.00062 |
| Combined Radium - 226/228 | pci/l | 0.978 U | 0.798 U | 0.274 U | 0.784 U | 1.09 U | 2.56 | 1.10 U |
| Selenium | mg/l | < 0.00096 | < 0.00096 | < 0.00096 | < 0.00096 | < 0.00096 | < 0.00096 | < 0.00096 |
| Thallium | mg/l | < 0.00038 | < 0.00038 | < 0.00038 | < 0.00038 | < 0.00038 | < 0.00038 | < 0.00038 |
| **Other Parameters** | | | | | | | | |
| Alkalinity | mg/L as $CaCO_3$ | 73.5 | 17.9 | 61.2 | 84.2 | 90.2 | 108 | 56 |
| Alkalinity, Bicarbonate | mg/L as $CaCO_3$ | 73.5 | 17.9 | 61.2 | 84.2 | 90.2 | 108 | 56 |
| Alkalinity, Carbonate | mg/L as $CaCO_3$ | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Magnesium | mg/L | 19.8 | 1.0 | 2.0 | 4.4 | 5.3 | 3.7 | 5.5 |
| Potassium | mg/L | 9.9 | 2.2 | 3.8 | 5.6 | 5.0 | 3.5 | 4.0 |
| Sodium | mg/L | 8.2 | 5.5 | 10 | 9.4 | 9.2 | 10 | 10.1 |

**Notes:**
Appendix III = Consituents for Detection Monitoring - 40 CFR Part 257
Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257

**Acronyms and Abbreviations:**
mg/L = milligrams per liter

pCi/L = picoCuries per liter

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

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

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

Table 6b
Upgradient Groundwater Analytical Data - February 2024
2024 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

| Analyte | Units | YGWA-5I 2/20/2024 | YGWA-5D 2/20/2024 | YGWA-14S 02/23/2024 | YGWA-17S 2/20/2024 | YGWA-18S 2/23/2024 | YGWA-18I 2/20/2024 | YGWA-20S 2/20/2024 |
|---|---|---|---|---|---|---|---|---|
| **Appendix III** | | | | | | | | |
| pH | SU | 5.78 | 7.56 | 5.39 | 5.64 | 5.30 | 6.11 | 5.99 |
| Boron | mg/l | < 0.012 | < 0.012 | 0.037 J | < 0.012 | 0.018 J | < 0.012 | < 0.012 |
| Calcium | mg/l | 2.7 | 27.2 | 1.6 | 3.2 | 0.84 J | 5.6 | 2.5 |
| Chloride | mg/l | 4.8 | 3.2 | 4.8 | 12.2 | 6.6 | 7.6 | 2.9 |
| Fluoride | mg/l | < 0.050 | 0.076 J | < 0.050 | < 0.050 | < 0.050 | < 0.050 | < 0.050 |
| Sulfate | mg/l | 2.5 | 5.1 | 7.1 | 4.6 | 0.79 J | < 0.50 | < 0.50 |
| Total Dissolved Solids | mg/l | 137 | 639 | 64 | 77 | 52 | 129 | 164 |
| **Appendix IV** | | | | | | | | |
| Antimony | mg/l | < 0.00054 | < 0.00054 | < 0.00054 | < 0.00054 | < 0.00054 | < 0.00054 | < 0.00054 |
| Arsenic | mg/l | < 0.00084 | 0.0030 J | < 0.00084 | < 0.00084 | < 0.00084 | < 0.00084 | < 0.00084 |
| Barium | mg/l | 0.019 | 0.0078 | 0.0096 | 0.017 | 0.013 | 0.02 | 0.013 |
| Beryllium | mg/l | < 0.000094 | < 0.000094 | 0.00024 J | 0.00010 J | < 0.000094 | < 0.000094 | < 0.000094 |
| Cadmium | mg/l | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 |
| Chromium | mg/l | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 |
| Cobalt | mg/l | < 0.00032 | < 0.00032 | < 0.00032 | < 0.00032 | < 0.00032 | < 0.00032 | < 0.00032 |
| Fluoride | mg/l | < 0.050 | 0.076 J | < 0.050 | < 0.050 | < 0.050 | < 0.050 | < 0.050 |
| Lead | mg/l | < 0.00016 | < 0.00016 | < 0.00016 | < 0.00016 | < 0.00016 | < 0.00016 | < 0.00016 |
| Lithium | mg/l | 0.0033 J | 0.0056 J | < 0.0016 | < 0.0016 | < 0.0016 | 0.0038 J | < 0.0016 |
| Mercury | mg/l | < 0.00013 | < 0.00013 | < 0.00013 | < 0.00013 | < 0.00013 | < 0.00013 | < 0.00013 |
| Molybdenum | mg/l | < 0.00062 | 0.0010 J | < 0.00062 | < 0.00062 | < 0.00062 | < 0.00062 | < 0.00062 |
| Combined Radium - 226/228 | pci/l | 0.630 U | 2.8 | 0.736 U | 0.0387 U | 0.318 U | 0.0680 U | 0.165 U |
| Selenium | mg/l | < 0.00096 | < 0.00096 | 0.0010 J | < 0.00096 | < 0.00096 | < 0.00096 | < 0.00096 |
| Thallium | mg/l | < 0.00038 | < 0.00038 | < 0.00038 | < 0.00038 | < 0.00038 | < 0.00038 | < 0.00038 |
| **Other Parameters** | | | | | | | | |
| Alkalinity | mg/L as $CaCO_3$ | 25.3 | 103 | 14.4 | 14.5 | 8.7 | 36.4 | 24.6 |
| Alkalinity, Bicarbonate | mg/L as $CaCO_3$ | 25.3 | 103 | 14.4 | 14.5 | 8.7 | 36.4 | 24.6 |
| Alkalinity, Carbonate | mg/L as $CaCO_3$ | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Magnesium | mg/L | 2.7 | 4.5 | 1.8 | 1.1 | 1.0 | 3.1 | 0.59 |
| Potassium | mg/L | 1.5 | 3.5 | 0.89 | 0.36 J | 0.62 | 0.95 | 0.51 |
| Sodium | mg/L | 10.5 | 9.5 | 10.1 | 15 | 8.6 | 12.6 | 9.2 |

**Notes:**
Appendix III = Consituents for Detection Monitoring - 40 CFR Part 257
Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257

**Acronyms and Abbreviations:**
mg/L = milligrams per liter

pCi/L = picoCuries per liter

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

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

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

**Table 6b**
**Upgradient Groundwater Analytical Data - February 2024**
**2024 Semiannual Groundwater Monitoring and Corrective Action Report**
**Georgia Power Company**
**Plant Yates - AP-2**

| Analyte | Units | YGWA-21I 2/20/2024 | YGWA-30I 2/20/2024 | YGWA-39 2/20/2024 | YGWA-40 2/20/2024 | YGWA-47 2/20/2024 |
|---|---|---|---|---|---|---|
| **Appendix III** | | | | | | |
| pH | SU | 6.78 | 5.81 | 5.97 | 5.32 | 5.62 |
| Boron | mg/l | < 0.012 | < 0.012 | 0.12 | 0.056 | 0.023 J |
| Calcium | mg/l | 7 | 1.3 | 16.9 | 5.6 | 10.3 |
| Chloride | mg/l | 2.3 | 1.4 | 4.6 | 5.7 | 3.2 |
| Fluoride | mg/l | 0.083 J | 0.051 J | 0.063 J | < 0.050 | 0.073 J |
| Sulfate | mg/l | 3.8 | 0.69 J | 8.6 | 17.2 | 51 |
| Total Dissolved Solids | mg/l | 156 | 55 | 233 | 109 | 159 |
| **Appendix IV** | | | | | | |
| Antimony | mg/l | 0.0013 J | < 0.00054 | < 0.00054 | < 0.00054 | < 0.00054 |
| Arsenic | mg/l | < 0.00084 | < 0.00084 | 0.0020 J | 0.0012 J | < 0.00084 |
| Barium | mg/l | 0.0065 | 0.0064 | 0.029 | 0.033 | 0.031 |
| Beryllium | mg/l | < 0.000094 | < 0.000094 | < 0.000094 | 0.00025 J | < 0.000094 |
| Cadmium | mg/l | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 |
| Chromium | mg/l | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 | < 0.0019 |
| Cobalt | mg/l | 0.02 | 0.0029 J | 0.00073 J | < 0.00032 | 0.0011 J |
| Fluoride | mg/l | 0.083 J | 0.051 J | 0.063 J | < 0.050 | 0.073 J |
| Lead | mg/l | < 0.00016 | < 0.00016 | < 0.00016 | < 0.00016 | < 0.00016 |
| Lithium | mg/l | 0.0062 J | < 0.0016 | 0.0059 J | < 0.0016 | 0.0036 J |
| Mercury | mg/l | < 0.00013 | < 0.00013 | < 0.00013 | 0.00032 | < 0.00013 |
| Molybdenum | mg/l | < 0.00062 | < 0.00062 | 0.0058 J | < 0.00062 | < 0.00062 |
| Combined Radium - 226/228 | pci/l | 1.19 | 0.375 U | 0.701 U | 0.437 U | 0.939 U |
| Selenium | mg/l | < 0.00096 | < 0.00096 | < 0.00096 | < 0.00096 | < 0.00096 |
| Thallium | mg/l | < 0.00038 | < 0.00038 | < 0.00038 | < 0.00038 | < 0.00038 |
| **Other Parameters** | | | | | | |
| Alkalinity | mg/L as $CaCO_3$ | 70.9 | 15.7 | 183 | 24.7 | 36.4 |
| Alkalinity, Bicarbonate | mg/L as $CaCO_3$ | 70.9 | 15.7 | 183 | 24.7 | 36.4 |
| Alkalinity, Carbonate | mg/L as $CaCO_3$ | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Magnesium | mg/L | 3.6 | 0.89 | 21.2 | 3.2 | 10.9 |
| Potassium | mg/L | 3.1 | 0.55 | 5.8 | 2.0 | 4.1 |
| Sodium | mg/L | 18.6 | 5.8 | 25.2 | 10.1 | 12.3 |

**Notes:**
Appendix III = Consituents for Detection Monitoring - 40 CFR Part 257
Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257

**Acronyms and Abbreviations:**
mg/L = milligrams per liter

pCi/L = picoCuries per liter

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

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

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

**Table 7**
**Background Levels and Groundwater Protection Standards**
**2024 Semiannual Groundwater Monitoring and Corrective Action Report**
**Georgia Power Company**
**Plant Yates - AP-2**

| Constituent | Units | Background [1] | GWPS |
|---|---|---|---|
| **February 2024** | | | |
| Antimony | mg/L | 0.0047 | 0.006 |
| Arsenic | mg/L | 0.005 | 0.010 |
| Barium | mg/L | 0.21 | 2.00 |
| Beryllium | mg/L | 0.0011 | 0.004 |
| Cadmium | mg/L | 0.00063 | 0.005 |
| Chromium | mg/L | 0.0093 | 0.100 |
| Cobalt | mg/L | 0.035 | 0.035 [2] |
| Fluoride | mg/L | 0.680 | 4.00 |
| Lead | mg/L | 0.0013 | 0.015 |
| Lithium | mg/L | 0.030 | 0.040 |
| Mercury | mg/L | 0.00064 | 0.002 |
| Molybdenum | mg/L | 0.030 | 0.100 |
| Selenium | mg/L | 0.005 | 0.050 |
| Thallium | mg/L | 0.001 | 0.002 |
| Combined Radium - 226/228 | pCi/L | 6.92 | 6.92 [2] |

**Notes:**

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

2. 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:**
GWPS = Groundwater Protection Standard per 40 CFR §257.95(h). On February 22, 2022, the GA EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated Federal GWPS for cobalt, lead, molydenum, and lithium.

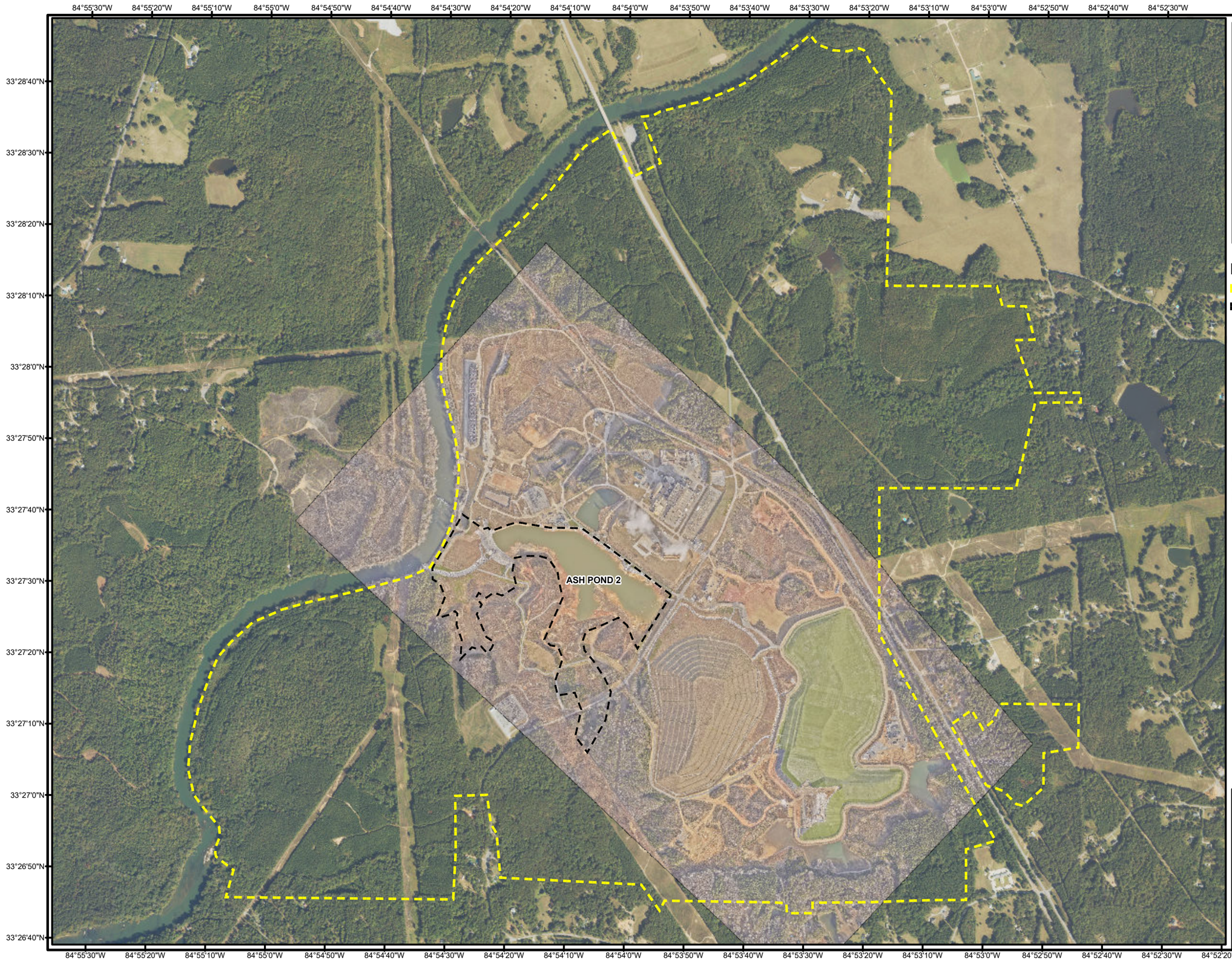
CFR = Code of Federal Regulations

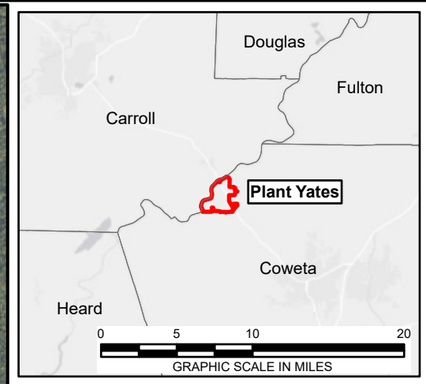
MCL = Maximum Contaminant Level

mg/L = millgrams per liter

pCi/L = picocuries per liter

# Figures




## LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- PERMITTED UNIT BOUNDARY

**NOTE:**
AERIAL IMAGE SOURCES: JANUARY 22, 2024 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

0 650 1,300 2,600
GRAPHIC SCALE IN FEET

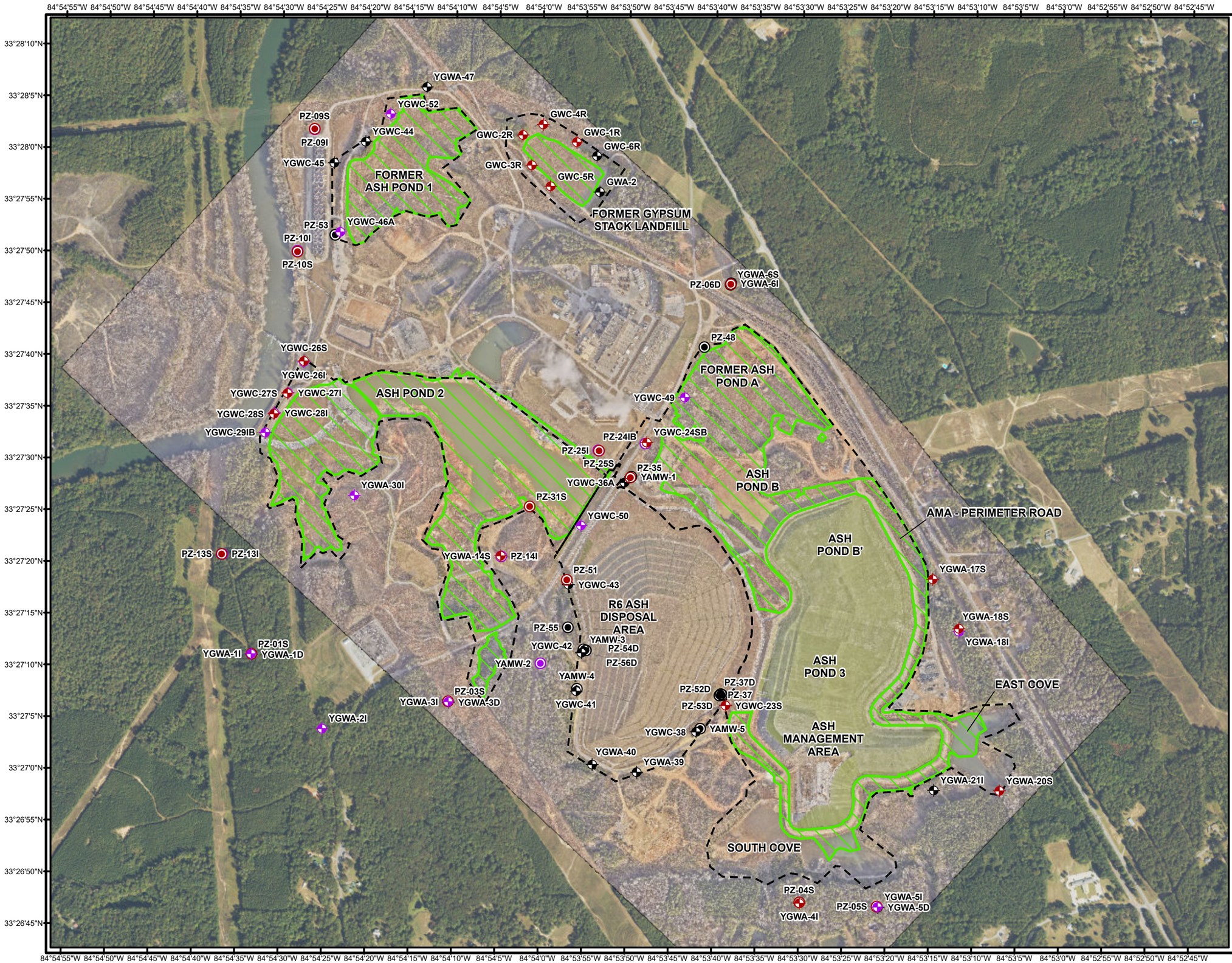
COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES AP-2
NEWNAN, GA
**2024 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT**

**SITE LOCATION MAP**

ARCADIS

FIGURE
**1**




## LEGEND

- SAPROLITE DETECTION MONITORING WELL LOCATION
- TRANSITION DETECTION MONITORING WELL LOCATION
- BEDROCK DETECTION MONITORING WELL LOCATION
- SAPROLITE ASSESSMENT WELL/PIEZOMETER
- TRANSITION ASSESSMENT WELL/PIEZOMETER
- BEDROCK ASSESSMENT WELL/PIEZOMETER
- PERMITTED UNIT BOUNDARY
- AREA WHERE ASH HAS BEEN CERTIFIED REMOVED AS OF 1/31/2024

**NOTE:**
AERIAL IMAGE SOURCES: JANUARY 22, 2024 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

0 450 900 1,800
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES AP-2
NEWNAN, GA
**2024 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT**

**PLANT YATES CCR REMOVAL AREAS**

ARCADIS

FIGURE
**2**

84°54'55"W 84°54'50"W 84°54'45"W 84°54'40"W 84°54'35"W 84°54'30"W 84°54'25"W 84°54'20"W 84°54'15"W 84°54'10"W 84°54'5"W 84°54'0"W 84°53'55"W 84°53'50"W 84°53'45"W 84°53'40"W 84°53'35"W 84°53'30"W 84°53'25"W 84°53'20"W 84°53'15"W 84°53'10"W 84°53'5"W 84°53'0"W 84°52'55"W 84°52'50"W

33°28'5"N
33°28'0"N
33°27'55"N
33°27'50"N
33°27'45"N
33°27'40"N
33°27'35"N
33°27'30"N
33°27'25"N
33°27'20"N
33°27'15"N
33°27'10"N
33°27'5"N
33°27'0"N
33°26'55"N
33°26'50"N
33°26'45"N

YGWA-47
GWA-2
YGWC-26S
YGWC-26I
YGWC-27I
YGWC-27S
YGWC-28I
YGWC-28S
YGWC-29IB
ASH POND 2
PZ-25I
PZ-25S
YGWA-30I
PZ-31S
PZ-13S
PZ-13I
PZ-14I
YGWA-14S
YGWA-17S
YGWA-18S
YGWA-18I
PZ-01S
YGWA-1I
YGWA-1D
PZ-03S
YGWA-3I
YGWA-3D
YGWA-2I
YGWA-40
YGWA-39
YGWA-21I
YGWA-20S
YGWA-4I
YGWA-5I
YGWA-5D

## LEGEND

- SAPROLITE DETECTION MONITORING WELL LOCATION
- TRANSITION DETECTION MONITORING WELL LOCATION
- BEDROCK DETECTION MONITORING WELL LOCATION
- SAPROLITE ASSESSMENT WELL/ PIEZOMETER
- TRANSITION ASSESSMENT WELL/ PIEZOMETER
- BEDROCK ASSESSMENT WELL/ PIEZOMETER
- PERMITTED UNIT BOUNDARY

**NOTE:**
1. YGWC-29I WAS ABANDONED ON OCTOBER 17, 2022. REPLACEMENT WELL YGWC-29IA WAS INSTALLED THE WEEK OF JANUARY 9, 2023.
2. AERIAL IMAGE SOURCES: JANUARY 22, 2024 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

0 437.5 875 1,750
GRAPHIC SCALE IN FEET

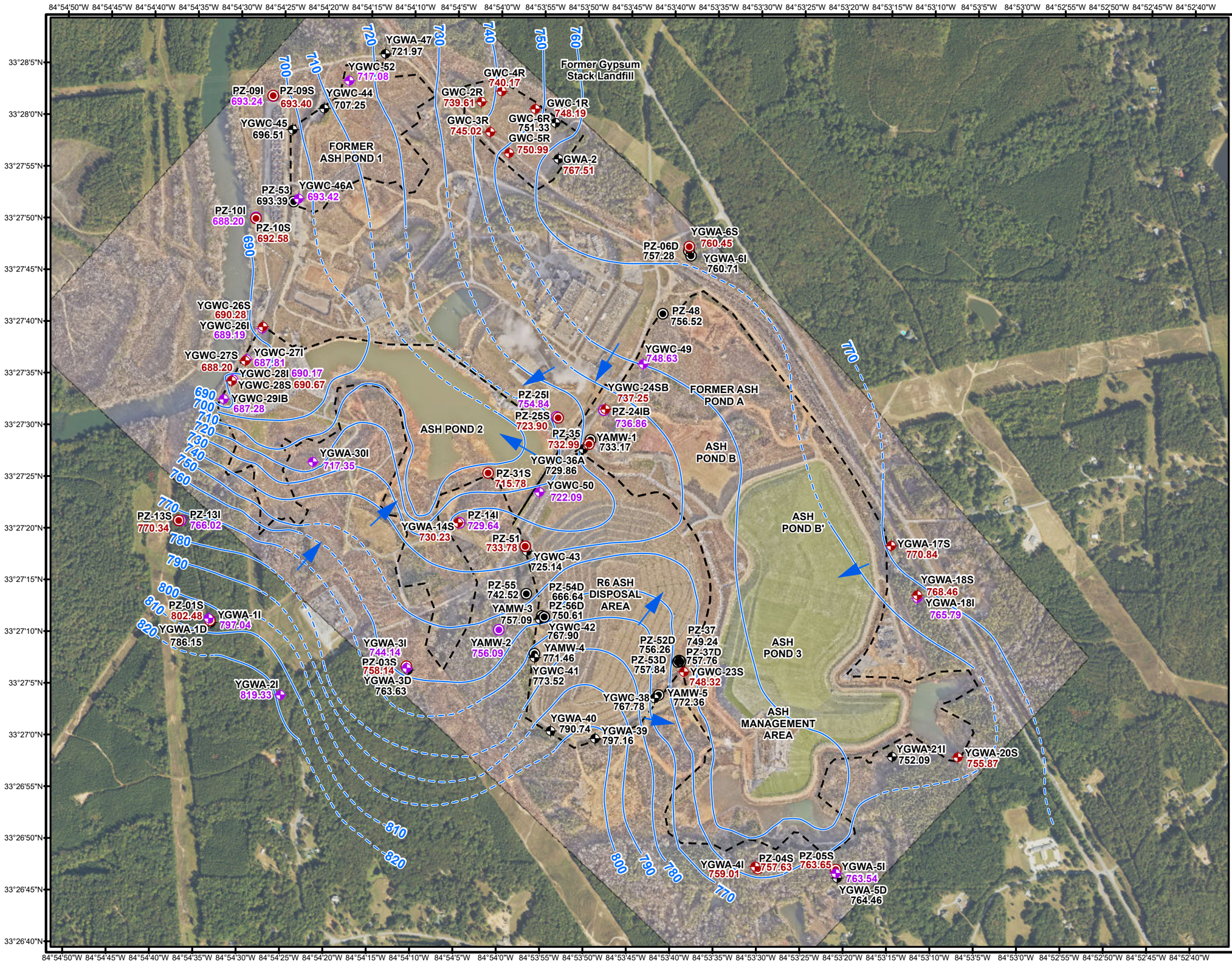
COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES AP-2
NEWNAN, GA
**2024 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT**

**WELL LOCATION MAP**

ARCADIS

FIGURE
**3**




## LEGEND

- SAPROLITE NETWORK MONITORING WELL LOCATION
- TRANSITION NETWORK MONITORING WELL LOCATION
- BEDROCK NETWORK MONITORING WELL LOCATION
- SAPROLITE NON-NETWORK WELL/ PIEZOMETER
- TRANSITION NON-NETWORK WELL/ PIEZOMETER
- BEDROCK NON-NETWORK WELL/ PIEZOMETER
- PERMITTED UNIT BOUNDARY
- GROUNDWATER FLOW DIRECTION
- APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
- **757.11** GROUNDWATER ELEVATION (FEET)

GEORGIA REGISTERED No. PE027801 PROFESSIONAL ENGINEER JOHN C. FOSTER IV

**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: JANUARY 22, 2024 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

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

6. GROUNDWATER ELEVATIONS COLLECTED ON FEBRUARY 19, 2024.

0 450 900 1,800

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES AP-2
NEWNAN, GA

**2024 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT**

**SITEWIDE GROUNDWATER ELEVATION MAP FEBRUARY 2024**

ARCADIS

FIGURE **4**

84°54'44"W 84°54'40"W 84°54'36"W 84°54'32"W 84°54'28"W 84°54'24"W 84°54'20"W 84°54'16"W 84°54'12"W 84°54'8"W 84°54'6"W 84°54'4"W 84°54'2"W 84°54'0"W 84°53'58"W 84°53'54"W 84°53'50"W 84°53'46"W

33°27'42"N
33°27'40"N
33°27'38"N
33°27'36"N
33°27'34"N
33°27'32"N
33°27'30"N
33°27'28"N
33°27'26"N
33°27'24"N
33°27'22"N
33°27'20"N
33°27'18"N
33°27'16"N
33°27'14"N
33°27'12"N
33°27'10"N
33°27'8"N
33°27'6"N
33°27'4"N

YGWC-26S 690.28
YGWC-26I 689.19
YGWC-27I 687.81
YGWC-27S 688.20
YGWC-28I 690.17
YGWC-28S 690.67
YGWC-29IB 687.28
ASH POND 2
YGWA-30I 717.35
PZ-25I 722.15
PZ-25S 723.90
ASH MANAGEMENT AREA
PZ-31S 715.78
PZ-14I 729.64
YGWA-14S 730.23
PZ-13S 770.34
PZ-13I 766.02
R6 ASH DISPOSAL AREA
YGWA-1I 797.04
PZ-01S 802.48
YGWA-1D 786.15
PZ-03S 758.14
YGWA-3I 744.14
YGWA-3D 763.63
YGWA-2I 819.33

700 710 720 730 740 690 750 760 770 780 790 800 810 820

## LEGEND

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

GEORGIA REGISTERED No. PE027801 PROFESSIONAL ENGINEER CONTRACTOR

**NOTES:**

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

2. BEDROCK WELL GROUNDWATER ELEVATIONS NOT USED FOR CONTOURING.

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

4. AERIAL IMAGE SOURCES: JANUARY 22, 2024 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

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

6. GROUNDWATER ELEVATIONS COLLECTED ON FEBRUARY 19, 2024.

0 200 400 800
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES AP-2
NEWNAN, GA
**2024 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT**

**GROUNDWATER ELEVATION MAP FEBRUARY 2024**

ARCADIS

FIGURE
**5**

# Appendix A

## Field Sampling Forms (February 2024)

# February 2024

# Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/20/2024

Calibrated By: Mark Chest

Field Conditions: Sunny, Cold

| Instrument | Manufactuer/ Model | Serial Number |
|---|---|---|
| Water Quality Meter | Aquatroll 600 | 747642 |
| Turbidity Meter | Geotech | -- |

| Calibration Standard Information | | | | |
|---|---|---|---|---|
| **Parameter** | **Standard** | **Lot #** | **Date of Expiration** | **Brand** |
| Specific Conductance (µS/cm) | 1,413 | 3G01148 | Apr-24 | Insitu |
| pH (SU) | 4.00 | 3GD708 | Apr-25 | Insitu |
| pH (SU) | 7.00 | 3GE0720 | May-25 | Insitu |
| pH (SU) | 10.00 | 3GD1219 | Apr-25 | Insitu |
| D.O. (%) | N/A | -- | -- | -- |
| ORP (mV) | 229.0 | 3GF0202 | Mar-24 | Insitu |

| Calibration | | | | | |
|---|---|---|---|---|---|
| **Time Start: 8:00** | | | **Time Finish: 8:25** | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,413 | 1,413 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 8.28 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.06 | 7.79 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.14 | 10.54 | ± 0.1 | GWMP |
| D.O. (%) | N/A | 100.00 | 13.48 | ± 10% | NA |
| ORP (mV) | 240.0 | 244.9 | 12.87 | ± 10 | EPA 2024 |

| | Standard | Calibration Value | Acceptance Criteria | Reference |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 20.4 | ± 10% of standard | EPA 2023 |
| | 100 | 111 | | |
| | 800 | 815 | | |
| | <0.10 | 0.02 | | |

| Calibration Check | | | | | |
|---|---|---|---|---|---|
| **Time Start: 13:55** | | | **Time Finish: 14:10** | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,413 | 1,413 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 16.51 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.04 | 16.01 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.11 | 15.98 | ± 0.1 | GWMP |

| | Standard | Calibration Value | Acceptance Criteria | Reference |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 19.7 | ± 10% of standard | EPA 2023 |
| | 100 | 101 | | |
| | 800 | 800 | | |
| | <0.10 | 0.02 | | |

Notes:

# Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/21/2024

Calibrated By: Mark Chest

Field Conditions: Sunny, Cold

| Instrument | Manufactuer/ Model | Serial Number |
|---|---|---|
| Water Quality Meter | Aquatroll 600 | 747642 |
| Turbidity Meter | Geotech | -- |

| Calibration Standard Information | | | | |
|---|---|---|---|---|
| **Parameter** | **Standard** | **Lot #** | **Date of Expiration** | **Brand** |
| Specific Conductance (µS/cm) | 1,413 | 3G01148 | Apr-24 | Insitu |
| pH (SU) | 4.00 | 3GD708 | Apr-25 | Insitu |
| pH (SU) | 7.00 | 3GE0720 | May-25 | Insitu |
| pH (SU) | 10.00 | 3GD1219 | Apr-25 | Insitu |
| D.O. (%) | N/A | -- | -- | -- |
| ORP (mV) | 229.0 | 3GF0202 | Mar-24 | Insitu |

| Calibration | | | | | |
|---|---|---|---|---|---|
| **Time Start 8:25** | | | **Time Finish 8:50** | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,413 | 1,413 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 15.78 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.04 | 16.07 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.11 | 16.02 | ± 0.1 | GWMP |
| D.O. (%) | N/A | 100.00 | 16.22 | ± 10% | NA |
| ORP (mV) | 240.0 | 238.8 | 17.55 | ± 10 | EPA 2024 |

| | Standard | Calibration Value | Acceptance Criteria | Reference |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 20.1 | ± 10% of standard | EPA 2023 |
| | 100 | 101 | | |
| | 800 | 800 | | |
| | <0.10 | 0.02 | | |

| Calibration Check | | | | | |
|---|---|---|---|---|---|
| **Time Start NA** | | | **Time Finish NA** | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | -- | -- | -- | ± 10% of standard | EPA 2023 |
| pH (SU) | -- | -- | -- | ± 0.1 | GWMP |
| pH (SU) | -- | -- | -- | ± 0.1 | GWMP |
| pH (SU) | -- | -- | -- | ± 0.1 | GWMP |

| | Standard | Calibration Value | Acceptance Criteria | Reference |
|---|---|---|---|---|
| **Turbidity (NTU)** | -- | -- | ± 10% of standard | EPA 2023 |
| | -- | -- | | |
| | -- | -- | | |
| | -- | -- | | |

Notes:

# Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/20/2024

Calibrated By: Kim Lapszynski

Field Conditions: Sunny, Cold

| Instrument | Manufactuer/ Model | Serial Number |
|---|---|---|
| Water Quality Meter | Aquatroll 600 | 867050 |
| Turbidity Meter | Geotech | 1069473 |

| Calibration Standard Information | | | | |
|---|---|---|---|---|
| **Parameter** | **Standard** | **Lot #** | **Date of Expiration** | **Brand** |
| Specific Conductance (µS/cm) | 1,413 | 3G01148 | Apr-24 | Insitu |
| pH (SU) | 4.00 | 3GD708 | Apr-25 | Insitu |
| pH (SU) | 7.00 | 3GE0720 | May-25 | Insitu |
| pH (SU) | 10.00 | 3GD1219 | Apr-25 | Insitu |
| D.O. (%) | N/A | -- | -- | -- |
| ORP (mV) | 229.0 | 3GF0202 | Mar-24 | Insitu |

| Calibration | | | | | |
|---|---|---|---|---|---|
| **Time Start 7:35** | | **Time Finish 8:05** | | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature ($^{o}$C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,413 | 1,413 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 11.72 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.06 | 12.20 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.14 | 11.99 | ± 0.1 | GWMP |
| D.O. (%) | N/A | 100.00 | 12.58 | ± 10% | NA |
| ORP (mV) | 229.0 | 229.0 | 12.09 | ± 10 | EPA 2024 |

| | Standard | Calibration Value | Acceptance Criteria | Reference |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 18.2 | ± 10% of standard | EPA 2023 |
| | 100 | 105 | | |
| | 800 | 800 | | |
| | <0.10 | 0.11 | | |

| Calibration Check | | | | | |
|---|---|---|---|---|---|
| **Time Start 13:45** | | **Time Finish 14:00** | | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature ($^{o}$C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,413 | 1,413 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 14.23 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.04 | 14.13 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.11 | 14.48 | ± 0.1 | GWMP |

| | Standard | Calibration Value | Acceptance Criteria | Reference |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 20.4 | ± 10% of standard | EPA 2023 |
| | 100 | 100 | | |
| | 800 | 813 | | |
| | <0.10 | 0.02 | | |

Notes:

# Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/21/2024

Calibrated By: Kim Lapszynski

Field Conditions: Sunny, Cold

| Instrument | Manufactuer/ Model | Serial Number |
|---|---|---|
| Water Quality Meter | Aquatroll 600 | 867050 |
| Turbidity Meter | Geotech | 1069473 |

| Calibration Standard Information | | | | |
|---|---|---|---|---|
| **Parameter** | **Standard** | **Lot #** | **Date of Expiration** | **Brand** |
| Specific Conductance (µS/cm) | 1,413 | 3G01148 | Apr-24 | Insitu |
| pH (SU) | 4.00 | 3GD708 | Apr-25 | Insitu |
| pH (SU) | 7.00 | 3GE0720 | May-25 | Insitu |
| pH (SU) | 10.00 | 3GD1219 | Apr-25 | Insitu |
| D.O. (%) | N/A | -- | -- | -- |
| ORP (mV) | 229.0 | 3GF0202 | Mar-24 | Insitu |

| Calibration | | | | | |
|---|---|---|---|---|---|
| **Time Start 7:20** | | | **Time Finish 7:40** | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,413 | 1,413 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 15.93 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.04 | 16.46 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.11 | 15.98 | ± 0.1 | GWMP |
| D.O. (%) | N/A | 100.00 | 15.92 | ± 10% | NA |
| ORP (mV) | 229.0 | 229.0 | 15.51 | ± 10 | EPA 2024 |

| | Standard | Calibration Value | Acceptance Criteria | Reference |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 22.2 | ± 10% of standard | EPA 2023 |
| | 100 | 100 | | |
| | 800 | 793 | | |
| | <0.10 | 0.12 | | |

| Calibration Check | | | | | |
|---|---|---|---|---|---|
| **Time Start 14:35** | | | **Time Finish 14:50** | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,413 | 1,413 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 22.79 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.02 | 21.90 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.05 | 21.47 | ± 0.1 | GWMP |

| | Standard | Calibration Value | Acceptance Criteria | Reference |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 20.4 | ± 10% of standard | EPA 2023 |
| | 100 | 110 | | |
| | 800 | 808 | | |
| | <0.10 | 0.11 | | |

Notes:

# Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/22/2024

Calibrated By: Kim Lapszynski

Field Conditions: Sunny, Cold

| Instrument | Manufactuer/ Model | Serial Number |
|---|---|---|
| Water Quality Meter | Aquatroll 600 | 867050 |
| Turbidity Meter | Geotech | 1069473 |

| Calibration Standard Information | | | | |
|---|---|---|---|---|
| **Parameter** | **Standard** | **Lot #** | **Date of Expiration** | **Brand** |
| Specific Conductance (µS/cm) | 1,413 | 3G01148 | Apr-24 | Insitu |
| pH (SU) | 4.00 | 3GD708 | Apr-25 | Insitu |
| pH (SU) | 7.00 | 3GE0720 | May-25 | Insitu |
| pH (SU) | 10.00 | 3GD1219 | Apr-25 | Insitu |
| D.O. (%) | N/A | -- | -- | -- |
| ORP (mV) | 229.0 | 3GF0202 | Mar-24 | Insitu |

| Calibration | | | | | |
|---|---|---|---|---|---|
| **Time Start 7:15** | | | **Time Finish 7:35** | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,413 | 1,413 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 16.18 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.04 | 16.64 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.11 | 16.31 | ± 0.1 | GWMP |
| D.O. (%) | N/A | 100.00 | 16.09 | ± 10% | NA |
| ORP (mV) | 229.0 | 229.0 | 16.30 | ± 10 | EPA 2024 |

| | Standard | Calibration Value | Acceptance Criteria | Reference |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 21.4 | ± 10% of standard | EPA 2023 |
| | 100 | 114 | | |
| | 800 | 816 | | |
| | <0.10 | 0.14 | | |

| Calibration Check | | | | | |
|---|---|---|---|---|---|
| **Time Start 12:30** | | | **Time Finish 12:50** | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,413 | 1,413 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 19.66 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.02 | 20.72 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.05 | 20.80 | ± 0.1 | GWMP |

| | Standard | Calibration Value | Acceptance Criteria | Reference |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 19.3 | ± 10% of standard | EPA 2023 |
| | 100 | 102 | | |
| | 800 | 814 | | |
| | <0.10 | 0.02 | | |

Notes:

# Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/23/2024

Calibrated By: Kim Lapszynski

Field Conditions: Sunny, Cold

| Instrument | Manufactuer/ Model | Serial Number |
|---|---|---|
| Water Quality Meter | Aquatroll 600 | 867050 |
| Turbidity Meter | Geotech | 1069473 |

| Calibration Standard Information | | | | |
|---|---|---|---|---|
| **Parameter** | **Standard** | **Lot #** | **Date of Expiration** | **Brand** |
| Specific Conductance (µS/cm) | 1,413 | 3G01148 | Apr-24 | Insitu |
| pH (SU) | 4.00 | 3GD708 | Apr-25 | Insitu |
| pH (SU) | 7.00 | 3GE0720 | May-25 | Insitu |
| pH (SU) | 10.00 | 3GD1219 | Apr-25 | Insitu |
| D.O. (%) | N/A | -- | -- | -- |
| ORP (mV) | 229.0 | 3GF0202 | Mar-24 | Insitu |

| Calibration | | | | | |
|---|---|---|---|---|---|
| **Time Start 7:30** | | **Time Finish 7:50** | | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,413 | 1,413 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 18.42 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.02 | 18.59 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.05 | 10.05 | ± 0.1 | GWMP |
| D.O. (%) | N/A | 100.00 | 17.97 | ± 10% | NA |
| ORP (mV) | 240.0 | 238.1 | 18.09 | ± 10 | EPA 2024 |

| | **Standard** | **Calibration Value** | **Acceptance Criteria** | **Reference** |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 22.9 | ± 10% of standard | EPA 2023 |
| | 100 | 101 | | |
| | 800 | 805 | | |
| | <0.10 | 0.08 | | |

| Calibration Check | | | | | |
|---|---|---|---|---|---|
| **Time Start 11:35** | | **Time Finish 11:50** | | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,413 | 1,413 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 17.91 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.02 | 18.11 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.05 | 17.75 | ± 0.1 | GWMP |

| | **Standard** | **Calibration Value** | **Acceptance Criteria** | **Reference** |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 21.1 | ± 10% of standard | EPA 2023 |
| | 100 | 101 | | |
| | 800 | 810 | | |
| | <0.10 | 0.02 | | |

Notes:

# Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/20/2024

Calibrated By: Jake Swanson

Field Conditions: Sunny, Cold

| Instrument | Manufactuer/ Model | Serial Number |
|---|---|---|
| Water Quality Meter | Aquatroll 600 | 808988 |
| Turbidity Meter | Geotech | -- |

| Calibration Standard Information | | | | |
|---|---|---|---|---|
| **Parameter** | **Standard** | **Lot #** | **Date of Expiration** | **Brand** |
| Specific Conductance (µS/cm) | 1,413 | 3G01148 | Apr-24 | Insitu |
| pH (SU) | 4.00 | 3GD708 | Apr-25 | Insitu |
| pH (SU) | 7.00 | 3GE0720 | May-25 | Insitu |
| pH (SU) | 10.00 | 3GD1219 | Apr-25 | Insitu |
| D.O. (%) | N/A | -- | -- | -- |
| ORP (mV) | 229.0 | 3GF0202 | Mar-24 | Insitu |

| Calibration | | | | | |
|---|---|---|---|---|---|
| **Time Start 7:40** | | | **Time Finish 8:05** | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,409 | 1,409 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 7.70 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.06 | 6.92 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.14 | 10.74 | ± 0.1 | GWMP |
| D.O. (%) | N/A | 100.00 | 12.31 | ± 10% | NA |
| ORP (mV) | 240.0 | 246.1 | 11.99 | ± 10 | EPA 2024 |

| | Standard | Calibration Value | Acceptance Criteria | Reference |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 20 | ± 10% of standard | EPA 2023 |
| | 100 | 100 | | |
| | 800 | 800 | | |
| | <0.10 | 0.02 | | |

| Calibration Check | | | | | |
|---|---|---|---|---|---|
| **Time Start 12:10** | | | **Time Finish 12:35** | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,409 | 1,409 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 16.08 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.04 | 16.04 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.11 | 15.74 | ± 0.1 | GWMP |

| | Standard | Calibration Value | Acceptance Criteria | Reference |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 20 | ± 10% of standard | EPA 2023 |
| | 100 | 100 | | |
| | 800 | 800 | | |
| | <0.10 | 0.02 | | |

Notes:

# Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/20/2024

Calibrated By: David Prouty

Field Conditions: Sunny, Cold

| Instrument | Manufactuer/ Model | Serial Number |
|---|---|---|
| Water Quality Meter | Aquatroll 600 | 865176 |
| Turbidity Meter | Geotech | 19022029 |

| Calibration Standard Information | | | | |
|---|---|---|---|---|
| **Parameter** | **Standard** | **Lot #** | **Date of Expiration** | **Brand** |
| Specific Conductance (µS/cm) | 1,413 | 3G01148 | Apr-24 | Insitu |
| pH (SU) | 4.00 | 3GD708 | Apr-25 | Insitu |
| pH (SU) | 7.00 | 3GE0720 | May-25 | Insitu |
| pH (SU) | 10.00 | 3GD1219 | Apr-25 | Insitu |
| D.O. (%) | N/A | -- | -- | -- |
| ORP (mV) | 229.0 | 3GF0202 | Mar-24 | Insitu |

| Calibration | | | | | |
|---|---|---|---|---|---|
| **Time Start 8:45** | | **Time Finish 9:10** | | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,413 | 1,413 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 12.12 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.06 | 12.15 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.14 | 12.19 | ± 0.1 | GWMP |
| D.O. (%) | N/A | 100.00 | 13.10 | ± 10% | NA |
| ORP (mV) | 240.0 | 245.2 | 12.71 | ± 10 | EPA 2024 |

| | Standard | Calibration Value | Acceptance Criteria | Reference |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 20.2 | ± 10% of standard | EPA 2023 |
| | 100 | 101 | | |
| | 800 | 799 | | |
| | <0.10 | 0.12 | | |

| Calibration Check | | | | | |
|---|---|---|---|---|---|
| **Time Start 14:50** | | **Time Finish 15:15** | | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,413 | 1,413 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 17.31 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.04 | 17.22 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.11 | 16.97 | ± 0.1 | GWMP |

| | Standard | Calibration Value | Acceptance Criteria | Reference |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 20 | ± 10% of standard | EPA 2023 |
| | 100 | 100 | | |
| | 800 | 799 | | |
| | <0.10 | 0.17 | | |

Notes:

# Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/21/2024

Calibrated By: David Prouty

Field Conditions: Sunny, Cold

| Instrument | Manufactuer/ Model | Serial Number |
|---|---|---|
| Water Quality Meter | Aquatroll 600 | 865176 |
| Turbidity Meter | Geotech | 19022029 |

| Calibration Standard Information | | | | |
|---|---|---|---|---|
| **Parameter** | **Standard** | **Lot #** | **Date of Expiration** | **Brand** |
| Specific Conductance (µS/cm) | 1,413 | 3G01148 | Apr-24 | Insitu |
| pH (SU) | 4.00 | 3GD708 | Apr-25 | Insitu |
| pH (SU) | 7.00 | 3GE0720 | May-25 | Insitu |
| pH (SU) | 10.00 | 3GD1219 | Apr-25 | Insitu |
| D.O. (%) | N/A | -- | -- | -- |
| ORP (mV) | 229.0 | 3GF0202 | Mar-24 | Insitu |

| Calibration | | | | | |
|---|---|---|---|---|---|
| **Time Start 7:15** | | **Time Finish 7:55** | | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,413 | 1,413 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 17.22 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.04 | 16.99 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.11 | 16.16 | ± 0.1 | GWMP |
| D.O. (%) | N/A | 100.00 | 18.01 | ± 10% | NA |
| ORP (mV) | 240.0 | 240.9 | 15.98 | ± 10 | EPA 2024 |

| | **Standard** | **Calibration Value** | **Acceptance Criteria** | **Reference** |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 20.1 | ± 10% of standard | EPA 2023 |
| | 100 | 101 | | |
| | 800 | 801 | | |
| | <0.10 | 0.1 | | |

| Calibration Check | | | | | |
|---|---|---|---|---|---|
| **Time Start 11:50** | | **Time Finish 12:15** | | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,413 | 1,413 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 17.35 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.02 | 19.96 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.05 | 18.05 | ± 0.1 | GWMP |

| | **Standard** | **Calibration Value** | **Acceptance Criteria** | **Reference** |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 20.0 | ± 10% of standard | EPA 2023 |
| | 100 | 101 | | |
| | 800 | 800 | | |
| | <0.10 | 0.11 | | |

Notes:

# Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/22/2024

Calibrated By: David Prouty

Field Conditions: Sunny, Cold

| Instrument | Manufactuer/ Model | Serial Number |
|---|---|---|
| Water Quality Meter | Aquatroll 600 | 865176 |
| Turbidity Meter | Geotech | 19022029 |

| Calibration Standard Information | | | | |
|---|---|---|---|---|
| **Parameter** | **Standard** | **Lot #** | **Date of Expiration** | **Brand** |
| Specific Conductance (µS/cm) | 1,413 | 3G01148 | Apr-24 | Insitu |
| pH (SU) | 4.00 | 3GD708 | Apr-25 | Insitu |
| pH (SU) | 7.00 | 3GE0720 | May-25 | Insitu |
| pH (SU) | 10.00 | 3GD1219 | Apr-25 | Insitu |
| D.O. (%) | N/A | -- | -- | -- |
| ORP (mV) | 229.0 | 3GF0202 | Mar-24 | Insitu |

| Calibration | | | | | |
|---|---|---|---|---|---|
| **Time Start 7:30** | | **Time Finish 7:50** | | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,413 | 1,413 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 17.46 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.02 | 17.75 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.05 | 17.55 | ± 0.1 | GWMP |
| D.O. (%) | N/A | 100.00 | 18.61 | ± 10% | NA |
| ORP (mV) | 240.0 | 239.4 | 17.13 | ± 10 | EPA 2024 |

| | Standard | Calibration Value | Acceptance Criteria | Reference |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 20.2 | ± 10% of standard | EPA 2023 |
| | 100 | 101 | | |
| | 800 | 802 | | |
| | <0.10 | 0.12 | | |

| Calibration Check | | | | | |
|---|---|---|---|---|---|
| **Time Start 13:05** | | **Time Finish 13:20** | | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,413 | 1,413 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 16.93 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.02 | 18.72 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.11 | 17.40 | ± 0.1 | GWMP |

| | Standard | Calibration Value | Acceptance Criteria | Reference |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 20.1 | ± 10% of standard | EPA 2023 |
| | 100 | 100 | | |
| | 800 | 800 | | |
| | <0.10 | 0.12 | | |

Notes:

# Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/23/2024

Calibrated By: David Prouty

Field Conditions: Sunny, Cold

| Instrument | Manufactuer/ Model | Serial Number |
|---|---|---|
| Water Quality Meter | Aquatroll 600 | 865176 |
| Turbidity Meter | Geotech | 19022029 |

| Calibration Standard Information | | | | |
|---|---|---|---|---|
| **Parameter** | **Standard** | **Lot #** | **Date of Expiration** | **Brand** |
| Specific Conductance (µS/cm) | 1,413 | 3G01148 | Apr-24 | Insitu |
| pH (SU) | 4.00 | 3GD708 | Apr-25 | Insitu |
| pH (SU) | 7.00 | 3GE0720 | May-25 | Insitu |
| pH (SU) | 10.00 | 3GD1219 | Apr-25 | Insitu |
| D.O. (%) | N/A | -- | -- | -- |
| ORP (mV) | 229.0 | 3GF0202 | Mar-24 | Insitu |

| Calibration | | | | | |
|---|---|---|---|---|---|
| **Time Start 7:15** | | **Time Finish 7:50** | | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,413 | 1,413 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 18.36 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.02 | 18.74 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.05 | 19.30 | ± 0.1 | GWMP |
| D.O. (%) | N/A | 100.00 | 19.19 | ± 10% | NA |
| ORP (mV) | 240.0 | 240.4 | 16.35 | ± 10 | EPA 2024 |

| | **Standard** | **Calibration Value** | **Acceptance Criteria** | **Reference** |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 20.2 | ± 10% of standard | EPA 2023 |
| | 100 | 100 | | |
| | 800 | 800 | | |
| | <0.10 | 0.09 | | |

| Calibration Check | | | | | |
|---|---|---|---|---|---|
| **Time Start NA** | | **Time Finish NA** | | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | -- | -- | -- | ± 10% of standard | EPA 2023 |
| pH (SU) | -- | -- | -- | ± 0.1 | GWMP |
| pH (SU) | -- | -- | -- | ± 0.1 | GWMP |
| pH (SU) | -- | -- | -- | ± 0.1 | GWMP |

| | **Standard** | **Calibration Value** | **Acceptance Criteria** | **Reference** |
|---|---|---|---|---|
| **Turbidity (NTU)** | -- | -- | ± 10% of standard | EPA 2023 |
| | -- | -- | | |
| | -- | -- | | |
| | -- | -- | | |

Notes:

# Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/20/2024

Calibrated By: Jessica Ware

Field Conditions: Sunny, Cold

| Instrument | Manufactuer/ Model | Serial Number |
|---|---|---|
| Water Quality Meter | Aquatroll 600 | 963011 |
| Turbidity Meter | Geotech | 23064780 |

| Calibration Standard Information | | | | |
|---|---|---|---|---|
| **Parameter** | **Standard** | **Lot #** | **Date of Expiration** | **Brand** |
| Specific Conductance (µS/cm) | 1,413 | 3G01148 | Apr-24 | Insitu |
| pH (SU) | 4.00 | 3GD708 | Apr-25 | Insitu |
| pH (SU) | 7.00 | 3GE0720 | May-25 | Insitu |
| pH (SU) | 10.00 | 3GD1219 | Apr-25 | Insitu |
| D.O. (%) | N/A | -- | -- | -- |
| ORP (mV) | 229.0 | 3GF0202 | Mar-24 | Insitu |

| Calibration | | | | | |
|---|---|---|---|---|---|
| **Time Start 7:35** | | **Time Finish 8:00** | | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,413 | 1,413 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 11.60 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.06 | 11.98 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.14 | 11.83 | ± 0.1 | GWMP |
| D.O. (%) | N/A | 100.00 | 11.44 | ± 10% | NA |
| ORP (mV) | 229.0 | 229.0 | 12.04 | ± 10 | EPA 2024 |

| | **Standard** | **Calibration Value** | **Acceptance Criteria** | **Reference** |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 20.2 | ± 10% of standard | EPA 2023 |
| | 100 | 97.1 | | |
| | 800 | 805 | | |
| | <0.10 | 0.02 | | |

| Calibration Check | | | | | |
|---|---|---|---|---|---|
| **Time Start 12:10** | | **Time Finish 12:20** | | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,413 | 1,413 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 12.06 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.06 | 12.01 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.14 | 11.90 | ± 0.1 | GWMP |

| | **Standard** | **Calibration Value** | **Acceptance Criteria** | **Reference** |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 19.4 | ± 10% of standard | EPA 2023 |
| | 100 | 99.5 | | |
| | 800 | 799 | | |
| | <0.10 | 0.02 | | |

Notes:

# Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/21/2024

Calibrated By: Jessica Ware

Field Conditions: Sunny, Cold

| Instrument | Manufactuer/ Model | Serial Number |
|---|---|---|
| Water Quality Meter | Aquatroll 600 | 963011 |
| Turbidity Meter | Geotech | 23064780 |

| Calibration Standard Information | | | | |
|---|---|---|---|---|
| **Parameter** | **Standard** | **Lot #** | **Date of Expiration** | **Brand** |
| Specific Conductance (µS/cm) | 1,413 | 3G01148 | Apr-24 | Insitu |
| pH (SU) | 4.00 | 3GD708 | Apr-25 | Insitu |
| pH (SU) | 7.00 | 3GE0720 | May-25 | Insitu |
| pH (SU) | 10.00 | 3GD1219 | Apr-25 | Insitu |
| D.O. (%) | N/A | -- | -- | -- |
| ORP (mV) | 229.0 | 3GF0202 | Mar-24 | Insitu |

| Calibration | | | | | |
|---|---|---|---|---|---|
| **Time Start 7:35** | | **Time Finish 8:00** | | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,413 | 1,413 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 15.39 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.04 | 15.88 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.11 | 15.67 | ± 0.1 | GWMP |
| D.O. (%) | N/A | 100.00 | 15.75 | ± 10% | NA |
| ORP (mV) | 229.0 | 229.0 | 15.62 | ± 10 | EPA 2024 |

| | **Standard** | **Calibration Value** | **Acceptance Criteria** | **Reference** |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 19.9 | ± 10% of standard | EPA 2023 |
| | 100 | 101 | | |
| | 800 | 803 | | |
| | <0.10 | 0.02 | | |

| Calibration Check | | | | | |
|---|---|---|---|---|---|
| **Time Start 14:30** | | **Time Finish 14:50** | | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,413 | 1,413 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 26.84 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.00 | 26.96 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.00 | 24.75 | ± 0.1 | GWMP |

| | **Standard** | **Calibration Value** | **Acceptance Criteria** | **Reference** |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 20.2 | ± 10% of standard | EPA 2023 |
| | 100 | 100 | | |
| | 800 | 800 | | |
| | <0.10 | 0.02 | | |

Notes:

# Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/22/2024

Calibrated By: Jessica Ware

Field Conditions: Sunny, Cold

| Instrument | Manufactuer/ Model | Serial Number |
|---|---|---|
| Water Quality Meter | Aquatroll 600 | 963011 |
| Turbidity Meter | Geotech | 23064780 |

| Calibration Standard Information | | | | |
|---|---|---|---|---|
| **Parameter** | **Standard** | **Lot #** | **Date of Expiration** | **Brand** |
| Specific Conductance (µS/cm) | 1,413 | 3G01148 | Apr-24 | Insitu |
| pH (SU) | 4.00 | 3GD708 | Apr-25 | Insitu |
| pH (SU) | 7.00 | 3GE0720 | May-25 | Insitu |
| pH (SU) | 10.00 | 3GD1219 | Apr-25 | Insitu |
| D.O. (%) | N/A | -- | -- | -- |
| ORP (mV) | 229.0 | 3GF0202 | Mar-24 | Insitu |

| Calibration | | | | | |
|---|---|---|---|---|---|
| **Time Start 7:25** | | **Time Finish 7:50** | | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,413 | 1,413 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 16.53 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.04 | 16.63 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.11 | 16.62 | ± 0.1 | GWMP |
| D.O. (%) | N/A | 100.00 | 16.71 | ± 10% | NA |
| ORP (mV) | 229.0 | 229.0 | 16.75 | ± 10 | EPA 2024 |

| | Standard | Calibration Value | Acceptance Criteria | Reference |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 20.9 | ± 10% of standard | EPA 2023 |
| | 100 | 99.7 | | |
| | 800 | 800 | | |
| | <0.10 | 0.04 | | |

| Calibration Check | | | | | |
|---|---|---|---|---|---|
| **Time Start 15:05** | | **Time Finish 15:25** | | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,413 | 1,413 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 22.06 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.02 | 22.50 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.05 | 22.26 | ± 0.1 | GWMP |

| | Standard | Calibration Value | Acceptance Criteria | Reference |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 20.5 | ± 10% of standard | EPA 2023 |
| | 100 | 100 | | |
| | 800 | 806 | | |
| | <0.10 | 0.02 | | |

Notes:

# Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/23/2024

Calibrated By: Jessica Ware

Field Conditions: Sunny, Cold

| Instrument | Manufactuer/ Model | Serial Number |
|---|---|---|
| Water Quality Meter | Aquatroll 600 | 963011 |
| Turbidity Meter | Geotech | 23064780 |

| Calibration Standard Information | | | | |
|---|---|---|---|---|
| **Parameter** | **Standard** | **Lot #** | **Date of Expiration** | **Brand** |
| Specific Conductance (µS/cm) | 1,413 | 3G01148 | Apr-24 | Insitu |
| pH (SU) | 4.00 | 3GD708 | Apr-25 | Insitu |
| pH (SU) | 7.00 | 3GE0720 | May-25 | Insitu |
| pH (SU) | 10.00 | 3GD1219 | Apr-25 | Insitu |
| D.O. (%) | N/A | -- | -- | -- |
| ORP (mV) | 229.0 | 3GF0202 | Mar-24 | Insitu |

| Calibration | | | | | |
|---|---|---|---|---|---|
| **Time Start 7:25** | | **Time Finish 8:05** | | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,413 | 1,413 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 18.60 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.02 | 18.35 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.05 | 18.42 | ± 0.1 | GWMP |
| D.O. (%) | N/A | 100.00 | 18.18 | ± 10% | NA |
| ORP (mV) | 240.0 | 240.0 | 17.94 | ± 10 | EPA 2024 |

| | Standard | Calibration Value | Acceptance Criteria | Reference |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 19.6 | ± 10% of standard | EPA 2023 |
| | 100 | 101 | | |
| | 800 | 806 | | |
| | <0.10 | 0.03 | | |

| Calibration Check | | | | | |
|---|---|---|---|---|---|
| **Time Start 13:25** | | **Time Finish 13:40** | | | |
| **Parameter** | **Standard** | **Calibration Value** | **Calibration Solution Temperature (°C)** | **Acceptance Criteria** | **Reference** |
| Specific Conductance (µS/cm) | 1,413 | 1,413 | 25.00 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 23.58 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.00 | 23.82 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.00 | 23.67 | ± 0.1 | GWMP |

| | Standard | Calibration Value | Acceptance Criteria | Reference |
|---|---|---|---|---|
| **Turbidity (NTU)** | 20 | 19.9 | ± 10% of standard | EPA 2023 |
| | 100 | 101 | | |
| | 800 | 806 | | |
| | <0.10 | 0.02 | | |

Notes:

ARCADIS Design & Consultancy for natural and built assets

# Groundwater Gauging Log



| | |
|---|---|
| **Client:** | Georgia Power |
| **Project Location:** | AP-2 |
| **Date:** | 2/19/2024 |
| **Sampler:** | Jake Swanson<br>Jessica Ware |
| **Equipment:** | water probe |

| Well | Date | Time | Depth to Water (ft) | Well Depth (ft) | Comments |
|---|---|---|---|---|---|
| YGWC-26S | 2/19/2024 | 11:30:00 | 26.00 | 40.18 | -- |
| YGWC-26I | 2/19/2024 | 11:30:00 | 26.72 | 69.81 | -- |
| YGWC-29IB | 2/19/2024 | 11:41:00 | 25.60 | 40.88 | -- |
| YGWC-28S | 2/19/2024 | 11:50:00 | 27.28 | 44.95 | -- |
| YGWC-28I | 2/19/2024 | 11:50:00 | 27.76 | 69.93 | -- |
| YGWC-27I | 2/19/2024 | 11:56:00 | 28.38 | 79.99 | -- |
| YGWC-27S | 2/19/2024 | 11:56:00 | 28.32 | 40.52 | -- |
| PZ-25S | 2/19/2024 | 12:14:00 | 42.70 | 56.80 | -- |
| PZ-25I | 2/19/2024 | 12:16:00 | 44.23 | 84.58 | -- |
| PZ-14I | 2/19/2024 | 13:17:00 | 19.42 | 50.86 | -- |
| PZ-31S | 2/19/2024 | 13:21:00 | 22.84 | 34.72 | -- |
| PZ-13S | 2/19/2024 | 13:41:00 | 37.45 | 43.79 | -- |
| PZ-13I | 2/19/2024 | 13:42:00 | 41.60 | 59.22 | -- |
| PZ-1S | 2/19/2024 | 13:47:00 | 34.36 | 36.34 | -- |
| PZ-3S | 2/19/2024 | 13:47:00 | 38.25 | 42.39 | -- |

# Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/21/2024 3:11:24 PM +00:00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Project Number** | 30143608 | **Well ID** | YGWC-27S | | | **Date** | 2/21/2024 |
| **Project Location** | AP-2 | | **Weather(°F)** | It is Clear. The wind is blowing undefined at 0.0 mph. | | | |
| **Measuring Pt. Description** | Top of Inner Casing | **Screen Setting (ft-bmp)** | 30.22 | **Casing Diameter (in)** | 2 | **Well Casing Material** | PVC |
| **Static Water Level (ft-bmp)** | 29.28 | **Total Depth (ft-bmp)** | 40.52 | **Water Column(ft)** | 11.24 | **Gallons in Well** | 1.83 |
| **MP Elevation** | 716.52 | **Pump Intake (ft-bmp)** | 35 | **Purge Method** | Low-Flow | **Sample Method** | Grab |
| **Sample Time** | 09:40 | **Well Volumes Purged** | 0.43 | **Sample ID** | YAT-YGWC-27S | **Sampled by** | David Prouty |
| **Purge Start** | 09:08 | **Gallons Purged** | 0.79 | **Replicate/ Code No.** | | **Color** | Clear |
| **Purge End** | 09:38 | | | | | | |

| Time | Total Elapsed Minutes | Rate (mL/min) | Depth to Water (ft) | pH (standard units) | Specific Conductivity (µS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature °C | Redox (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 9:08:00 | 00:00 | 100 | 29.28 | 6.39 | 256.49 | 5.62 | 7.71 | 14.80 | 213.16 |
| 9:13:00 | 05:00 | 100 | 29.32 | 6.24 | 247.16 | 4.72 | 2.20 | 16.50 | 208.11 |
| 9:18:00 | 10:00 | 100 | 29.32 | 6.26 | 247.33 | 3.09 | 1.48 | 16.70 | 199.52 |
| 9:23:00 | 15:00 | 100 | 29.32 | 6.27 | 247.46 | 2.66 | 1.11 | 17.00 | 191.24 |
| 9:28:00 | 20:00 | 100 | 29.32 | 6.28 | 247.26 | 1.44 | 0.99 | 16.80 | 188.14 |
| 9:33:00 | 25:00 | 100 | 29.32 | 6.29 | 246.10 | 0.22 | 0.87 | 17.20 | 183.11 |
| 9:38:00 | 30:00 | 100 | 29.32 | 6.26 | 248.59 | 0.27 | 0.86 | 17.00 | 182.45 |

| Constituent Sampled | Container | Number | Preservative |
|---|---|---|---|
| Alkalinity | 250 mL Plastic | 1 | None |
| FlSulfateChloride | 250 mL Plastic | 1 | None |
| Metals | 250 mL Plastic | 1 | HNO3 |
| RAD Chem | 1L Plastic | 2 | HNO3 |
| TDS | 500 mL Plastic | 1 | None |

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

# Groundwater Sampling Form

Updated : 2/21/2024 4:40:20 PM +00:00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Project Number** | 30143608 | **Well ID** | YGWC-27I | | | **Date** | 2/21/2024 |
| **Project Location** | AP-2 | | **Weather(°F)** | It is Clear. The wind is blowing SE at 4.7 mph. | | | |
| **Measuring Pt. Description** | Top of Inner Casing | **Screen Setting (ft-bmp)** | 69.69 | **Casing Diameter (in)** | 2 | **Well Casing Material** | PVC |
| **Static Water Level (ft-bmp)** | 29.38 | **Total Depth (ft-bmp)** | 79.99 | **Water Column(ft)** | 50.61 | **Gallons in Well** | 8.22 |
| **MP Elevation** | 716.19 | **Pump Intake (ft-bmp)** | 75 | **Purge Method** | Low-Flow | **Sample Method** | Grab |
| **Sample Time** | 11:05 | **Well Volumes Purged** | 0.08 | **Sample ID** | YAT-YGWC-27I | **Sampled by** | David Prouty |
| **Purge Start** | 10:33 | **Gallons Purged** | 0.69 | **Replicate/ Code No.** | | **Color** | Clear |
| **Purge End** | 11:01 | | | | | | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| 10:33:00 | 00:00 | 100 | 29.38 | 8.02 | 287.66 | 3.36 | 9.66 | 16.20 | 196.08 |
| 10:39:00 | 05:45 | 100 | 29.58 | 6.51 | 298.36 | 2.46 | 2.61 | 16.90 | 69.84 |
| 10:44:00 | 10:45 | 100 | 29.57 | 6.33 | 305.58 | 3.94 | 1.39 | 17.20 | 43.24 |
| 10:49:00 | 16:14 | 100 | 29.57 | 6.36 | 313.91 | 2.54 | 1.11 | 17.00 | 30.64 |
| 10:54:00 | 21:14 | 100 | 29.57 | 6.40 | 314.89 | 3.91 | 0.97 | 17.30 | 25.68 |
| 10:59:00 | 26:14 | 100 | 29.57 | 6.43 | 314.66 | 0.96 | 0.94 | 17.30 | 22.86 |

| Constituent Sampled | Container | Number | Preservative |
|---|---|---|---|
| Alkalinity | 250 mL Plastic | 1 | None |
| FlChlorideSulfate | 250 mL Plastic | 1 | None |
| Metals | 250 mL Plastic | 1 | HNO3 |
| RAD Chem | 1L Plastic | 2 | HNO3 |
| TDS | 500 mL Plastic | 1 | None |

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

# Groundwater Sampling Form

Updated : 2/21/2024 8:47:19 PM +00:00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Project Number** | 30143608 | **Well ID** | YGWC-28S | | | **Date** | 2/21/2024 |
| **Project Location** | AP-2 | | **Weather(°F)** | 62.1 degrees F and Clear. The wind is blowing S/SW at 8.1 mph. | | | |
| **Measuring Pt. Description** | Top of Inner Casing | **Screen Setting (ft-bmp)** | 34.65 | **Casing Diameter (in)** | 2 | **Well Casing Material** | PVC |
| **Static Water Level (ft-bmp)** | 27.4 | **Total Depth (ft-bmp)** | 44.95 | **Water Column(ft)** | 17.55 | **Gallons in Well** | 2.85 |
| **MP Elevation** | 717.95 | **Pump Intake (ft-bmp)** | 40 | **Purge Method** | Low-Flow | **Sample Method** | Grab |
| **Sample Time** | 14:45 | **Well Volumes Purged** | 0.76 | **Sample ID** | YAT-YGWC-28S | **Sampled by** | David Prouty |
| **Purge Start** | 13:03 | **Gallons Purged** | 2.17 | **Replicate/ Code No.** | | **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) |
|---|---|---|---|---|---|---|---|---|---|
| 13:03:00 | 00:00 | 100 | 27.52 | 6.21 | 416.82 | 62.40 | 2.55 | 18.50 | -26.37 |
| 13:08:00 | 05:00 | 100 | 27.49 | 6.25 | 426.59 | 42.00 | 0.97 | 19.30 | -39.47 |
| 13:13:00 | 10:00 | 80 | 27.46 | 6.30 | 435.14 | 29.80 | 0.71 | 18.90 | -46.50 |
| 13:18:00 | 15:00 | 80 | 27.46 | 6.34 | 439.59 | 24.40 | 0.72 | 18.90 | -49.65 |
| 13:23:00 | 20:00 | 80 | 27.46 | 6.37 | 436.31 | 20.30 | 0.69 | 18.80 | -50.69 |
| 13:28:00 | 25:00 | 80 | 27.46 | 6.40 | 435.92 | 18.20 | 0.75 | 18.70 | -51.15 |
| 13:33:00 | 30:00 | 80 | 27.46 | 6.41 | 438.19 | 16.90 | 0.72 | 18.70 | -52.46 |
| 13:38:00 | 35:00 | 80 | 27.46 | 6.44 | 438.93 | 13.20 | 0.99 | 19.10 | -52.00 |
| 13:43:00 | 40:00 | 80 | 27.46 | 6.45 | 438.34 | 12.50 | 0.93 | 19.30 | -53.11 |
| 13:48:00 | 45:00 | 80 | 27.46 | 6.47 | 438.11 | 10.60 | 0.94 | 19.20 | -53.74 |
| 13:53:00 | 50:00 | 80 | 27.46 | 6.48 | 437.65 | 8.78 | 0.96 | 19.40 | -53.62 |
| 13:58:00 | 55:00 | 80 | 27.46 | 6.48 | 437.54 | 9.20 | 1.03 | 19.20 | -53.79 |
| 14:03:00 | 00:00 | 80 | 27.46 | 6.48 | 435.85 | 8.13 | 1.02 | 19.40 | -54.09 |
| 14:08:00 | 05:00 | 80 | 27.46 | 6.49 | 431.22 | 8.76 | 1.03 | 19.40 | -54.73 |
| 14:13:00 | 10:00 | 80 | 27.46 | 6.49 | 435.49 | 8.82 | 0.97 | 19.30 | -55.03 |
| 14:18:00 | 15:00 | 80 | 27.46 | 6.49 | 434.12 | 8.98 | 1.00 | 19.30 | -55.11 |
| 14:23:00 | 20:00 | 80 | 27.46 | 6.49 | 434.86 | 7.32 | 1.05 | 19.30 | -55.47 |
| 14:28:00 | 25:00 | 80 | 27.46 | 6.49 | 431.67 | 6.34 | 0.82 | 18.60 | -56.31 |
| 14:33:00 | 30:00 | 80 | 27.46 | 6.48 | 432.80 | 5.14 | 0.76 | 18.70 | -57.72 |
| 14:38:00 | 35:00 | 80 | 27.46 | 6.49 | 432.69 | 5.00 | 0.70 | 18.90 | -59.69 |
| 14:43:00 | 40:00 | 80 | 27.46 | 6.49 | 435.90 | 4.14 | 0.73 | 18.80 | -60.41 |

| Constituent Sampled | Container | Number | Preservative |
|---|---|---|---|
| Alkalinity | 250 mL Plastic | 1 | None |
| FlChlorideSulfate | 250 mL Plastic | 1 | None |

# Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

| | | | |
|---|---|---|---|
| Metals | 250 mL Plastic | 1 | HNO3 |
| RAD Chem | 1L Plastic | 2 | HNO3 |
| TDS | 500 mL Plastic | 1 | None |

**Comments:** Collected AP2-EB-1 and AP2-FB-1

**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:

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well:

# Groundwater Sampling Form

Updated : 2/21/2024 11:17:40 PM +00:00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Project Number** | 30143608 | **Well ID** | YGWC-28I | | | **Date** | 2/21/2024 |
| **Project Location** | AP-2 | | **Weather(°F)** | 66.6 degrees F and Clear. The wind is blowing undefined at 0.0 mph. | | | |
| **Measuring Pt. Description** | Top of Inner Casing | **Screen Setting (ft-bmp)** | 59.63 | **Casing Diameter (in)** | 2 | **Well Casing Material** | PVC |
| **Static Water Level (ft-bmp)** | 28.03 | **Total Depth (ft-bmp)** | 69.93 | **Water Column(ft)** | 41.90 | **Gallons in Well** | 6.81 |
| **MP Elevation** | 717.93 | **Pump Intake (ft-bmp)** | 64 | **Purge Method** | Low-Flow | **Sample Method** | Grab |
| **Sample Time** | 16:35 | **Well Volumes Purged** | 0.10 | **Sample ID** | YAT-YGWC-28I | **Sampled by** | David Prouty |
| **Purge Start** | 16:05 | **Gallons Purged** | 0.66 | **Replicate/ Code No.** | YAT-AP2-FD-1 | **Color** | Clear |
| **Purge End** | 16:32 | | | | | | |

| Time | Total Elapsed Minutes | Rate (mL/min) | Depth to Water (ft) | pH (standard units) | Specific Conductivity (µS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature °C | Redox (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 16:05:00 | 00:00 | 100 | 28.44 | 6.54 | 304.01 | 2.64 | 3.46 | 18.70 | 53.42 |
| 16:10:00 | 05:00 | 100 | 28.4 | 6.41 | 303.74 | 1.14 | 2.29 | 19.00 | 73.85 |
| 16:15:00 | 10:00 | 100 | 28.39 | 6.39 | 304.86 | 2.83 | 1.86 | 18.80 | 86.22 |
| 16:20:00 | 15:00 | 100 | 28.39 | 6.40 | 304.41 | 0.80 | 1.64 | 18.50 | 95.10 |
| 16:25:00 | 20:00 | 100 | 28.39 | 6.42 | 303.39 | 0.48 | 1.56 | 18.50 | 100.15 |
| 16:30:00 | 25:00 | 100 | 28.39 | 6.43 | 302.20 | 1.75 | 1.54 | 18.30 | 105.51 |

| Constituent Sampled | Container | Number | Preservative |
|---|---|---|---|
| Alkalinity | 250 mL Plastic | 2 | None |
| FlChlorideSulfate | 250 mL Plastic | 2 | None |
| Metals | 250 mL Plastic | 2 | HNO3 |
| RAD Chem | 1L Plastic | 4 | HNO3 |
| TDS | 500 mL Plastic | 2 | None |

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

# Groundwater Sampling Form

Updated : 2/22/2024 4:58:26 PM +00:00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Project Number** | 30143608 | **Well ID** | YGWC-26S | | | **Date** | 2/22/2024 |
| **Project Location** | AP-2 | | **Weather(°F)** | It is Clear. The wind is blowing SW at 11.4 mph. | | | |
| **Measuring Pt. Description** | Top of Inner Casing | **Screen Setting (ft-bmp)** | 29.88 | **Casing Diameter (in)** | 2 | **Well Casing Material** | PVC |
| **Static Water Level (ft-bmp)** | 26 | **Total Depth (ft-bmp)** | 40.18 | **Water Column(ft)** | 14.18 | **Gallons in Well** | 2.30 |
| **MP Elevation** | 716.28 | **Pump Intake (ft-bmp)** | 37 | **Purge Method** | Low-Flow | **Sample Method** | Grab |
| **Sample Time** | 10:15 | **Well Volumes Purged** | 0.34 | **Sample ID** | YAT-YGWC-26S | **Sampled by** | David Prouty |
| **Purge Start** | 09:40 | **Gallons Purged** | 0.79 | **Replicate/ Code No.** | | **Color** | Clear |
| **Purge End** | 10:10 | | | | | | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| 9:40:00 | 00:00 | 100 | 26.33 | 5.61 | 272.79 | 5.97 | 2.92 | 16.30 | 207.36 |
| 9:45:00 | 05:00 | 100 | 26.7 | 5.56 | 272.13 | 14.80 | 1.45 | 15.60 | 208.25 |
| 9:50:00 | 10:00 | 100 | 26.59 | 5.56 | 274.79 | 6.48 | 0.60 | 15.60 | 202.48 |
| 9:55:00 | 15:00 | 100 | 26.59 | 5.57 | 273.84 | 5.34 | 0.51 | 15.70 | 197.77 |
| 10:00:00 | 20:00 | 100 | 26.59 | 5.58 | 275.15 | 4.92 | 0.48 | 15.70 | 196.30 |
| 10:05:00 | 25:00 | 100 | 26.59 | 5.58 | 274.87 | 4.99 | 0.52 | 15.90 | 194.54 |
| 10:10:00 | 30:00 | 100 | 26.59 | 5.58 | 274.47 | 4.27 | 0.52 | 15.90 | 194.45 |

| Constituent Sampled | Container | Number | Preservative |
|---|---|---|---|
| Alkalinity | 250 mL Plastic | 1 | None |
| FlChlorideSulfate | 250 mL Plastic | 1 | None |
| Metals | 250 mL Plastic | 1 | HNO3 |
| RAD Chem | 1L Plastic | 2 | HNO3 |
| TDS | 500 mL Plastic | 1 | None |

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

# Groundwater Sampling Form

Updated : 2/22/2024 7:44:11 PM +00:00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Project Number** | 30143608 | **Well ID** | YGWC-29IB | | | **Date** | 2/22/2024 |
| **Project Location** | AP-2 | | **Weather(°F)** | 67.6 degrees F and Clear. The wind is blowing SW at 6.9 mph. | | | |
| **Measuring Pt. Description** | Top of Inner Casing | **Screen Setting (ft-bmp)** | 30.88 | **Casing Diameter (in)** | 2 | **Well Casing Material** | PVC |
| **Static Water Level (ft-bmp)** | 26.03 | **Total Depth (ft-bmp)** | 40.88 | **Water Column(ft)** | 14.85 | **Gallons in Well** | 2.41 |
| **MP Elevation** | 712.88 | **Pump Intake (ft-bmp)** | 24.88 | **Purge Method** | Low-Flow | **Sample Method** | Grab |
| **Sample Time** | 14:10 | **Well Volumes Purged** | 0.28 | **Sample ID** | YGWC-29IB | **Sampled by** | David Prouty |
| **Purge Start** | 13:41 | **Gallons Purged** | 0.68 | **Replicate/ Code No.** | | **Color** | Clear |
| **Purge End** | 14:06 | | | | | | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| 13:41:00 | 00:00 | 100 | 26.29 | 5.78 | 193.21 | 1.83 | 0.72 | 19.00 | 200.45 |
| 13:46:00 | 05:00 | 100 | 26.27 | 5.79 | 193.72 | 1.90 | 0.37 | 18.80 | 199.13 |
| 13:51:00 | 10:44 | 100 | 26.27 | 5.88 | 197.21 | 1.96 | 0.25 | 19.10 | 179.95 |
| 13:56:00 | 15:44 | 100 | 26.27 | 5.94 | 201.63 | 1.26 | 0.21 | 19.00 | 178.74 |
| 14:01:00 | 20:44 | 100 | 26.27 | 5.99 | 202.14 | 0.91 | 0.17 | 19.20 | 174.74 |
| 14:06:00 | 25:44 | 100 | 26.27 | 6.01 | 203.33 | 1.54 | 0.15 | 19.40 | 172.71 |

| Constituent Sampled | Container | Number | Preservative |
|---|---|---|---|
| Alkalinity | 250 mL Plastic | 1 | None |
| FlChlorideSulfate | 250 mL Plastic | 1 | None |
| Metals | 250 mL Plastic | 1 | HNO3 |
| RAD Chem | 1L Plastic | 2 | HNO3 |
| TDS | 500 mL Plastic | 1 | None |

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

# Groundwater Sampling Form

Updated : 2/22/2024 7:44:12 PM +00:00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Project Number** | 30143608 | **Well ID** | YGWC-26I | | | **Date** | 2/22/2024 |
| **Project Location** | AP-2 | | **Weather(°F)** | 61.0 degrees F and Clear. The wind is blowing W/SW at 5.8 mph. | | | |
| **Measuring Pt. Description** | Top of Inner Casing | **Screen Setting (ft-bmp)** | 59.51 | **Casing Diameter (in)** | 2 | **Well Casing Material** | PVC |
| **Static Water Level (ft-bmp)** | 26.97 | **Total Depth (ft-bmp)** | 69.81 | **Water Column(ft)** | 42.84 | **Gallons in Well** | 6.96 |
| **MP Elevation** | 715.91 | **Pump Intake (ft-bmp)** | 61 | **Purge Method** | Low-Flow | **Sample Method** | Grab |
| **Sample Time** | 12:00 | **Well Volumes Purged** | 0.13 | **Sample ID** | YAT-YGWC-26I | **Sampled by** | David Prouty |
| **Purge Start** | 11:19 | **Gallons Purged** | 0.94 | **Replicate/ Code No.** | | **Color** | Clear |
| **Purge End** | 11:55 | | | | | | |

| Time | Total Elapsed Minutes | Rate (mL/min) | Depth to Water (ft) | pH (standard units) | Specific Conductivity (µS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature °C | Redox (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 11:19:00 | 00:00 | 100 | 27.05 | 7.03 | 304.47 | 4.97 | 8.97 | 17.50 | 160.49 |
| 11:24:00 | 05:00 | 100 | 27.05 | 6.21 | 294.65 | 0.96 | 3.82 | 17.80 | 12.80 |
| 11:29:00 | 10:33 | 100 | 27.1 | 5.95 | 290.28 | 1.25 | 1.23 | 18.20 | 56.15 |
| 11:34:00 | 15:33 | 100 | 27.1 | 5.92 | 289.72 | 1.63 | 0.89 | 18.30 | 101.90 |
| 11:39:00 | 20:33 | 100 | 27.1 | 5.92 | 289.23 | 2.60 | 0.79 | 18.30 | 134.77 |
| 11:44:00 | 25:33 | 100 | 27.1 | 5.92 | 289.34 | 0.18 | 0.67 | 18.50 | 154.00 |
| 11:49:00 | 30:33 | 100 | 27.1 | 5.92 | 290.63 | 0.57 | 0.56 | 18.40 | 165.49 |
| 11:54:00 | 35:33 | 100 | 27.1 | 5.92 | 290.90 | 0.57 | 0.50 | 18.50 | 174.03 |

| Constituent Sampled | Container | Number | Preservative |
|---|---|---|---|
| Alkalinity | 250 mL Plastic | 1 | None |
| FlChlorideSulfate | 250 mL Plastic | 1 | None |
| Metals | 250 mL Plastic | 1 | HNO3 |
| RAD Chem | 1L Plastic | 2 | HNO3 |
| TDS | 500 mL Plastic | 1 | None |

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

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

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AP-2 |
| **Permit Number:** | |
| **Well ID:** | YGWC-26S |
| **Person Gauging:** | Jake Swanson |
| **Date:** | 2/19/2024 |
| **Time:** | 11:30:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☑ | ☐ | ☐ |
| | 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: | | | | |
| 8 | Date by when corrective actions are needed: | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AP-2 |
| **Permit Number:** | |
| **Well ID:** | YGWC-26I |
| **Person Gauging:** | Jake Swanson |
| **Date:** | 2/19/2024 |
| **Time:** | 11:30:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☑ | ☐ | ☐ |
| | 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: | | | | |
| | | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AP-2 |
| **Permit Number:** | |
| **Well ID:** | YGWC-29IB |
| **Person Gauging:** | Jake Swanson |
| **Date:** | 2/19/2024 |
| **Time:** | 11:41:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☐ | ☐ | ☑ |
| | 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: | | | | |
| | | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AP-2 |
| **Permit Number:** | |
| **Well ID:** | YGWC-28S |
| **Person Gauging:** | Jake Swanson |
| **Date:** | 2/19/2024 |
| **Time:** | 11:50:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☑ | ☐ | ☐ |
| | 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: | | | | |
| | | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AP-2 |
| **Permit Number:** | |
| **Well ID:** | YGWC-28I |
| **Person Gauging:** | Jake Swanson |
| **Date:** | 2/19/2024 |
| **Time:** | 11:50:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☑ | ☐ | ☐ |
| | 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: | | | | |
| 8 | Date by when corrective actions are needed: | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AP-2 |
| **Permit Number:** | |
| **Well ID:** | YGWC-27I |
| **Person Gauging:** | Jake Swanson |
| **Date:** | 2/19/2024 |
| **Time:** | 11:56:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☑ | ☐ | ☐ |
| | 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: | | | | |
| | | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AP-2 |
| **Permit Number:** | |
| **Well ID:** | YGWC-27S |
| **Person Gauging:** | Jake Swanson |
| **Date:** | 2/19/2024 |
| **Time:** | 11:56:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☑ | ☐ | ☐ |
| | 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: | | | | |
| 8 | Date by when corrective actions are needed: | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AP-2 |
| **Permit Number:** | |
| **Well ID:** | PZ-25S |
| **Person Gauging:** | Jake Swanson |
| **Date:** | 2/19/2024 |
| **Time:** | 12:14:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☐ | ☐ | ☑ |
| | 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: | | | | |
| | | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AP-2 |
| **Permit Number:** | |
| **Well ID:** | PZ-25I |
| **Person Gauging:** | Jake Swanson |
| **Date:** | 2/19/2024 |
| **Time:** | 12:16:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☐ | ☐ | ☑ |
| | 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: | | | | |
| | | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AP-2 |
| **Permit Number:** | |
| **Well ID:** | PZ-14I |
| **Person Gauging:** | Jake Swanson |
| **Date:** | 2/19/2024 |
| **Time:** | 13:17:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☐ | ☐ | ☑ |
| | 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: | | | | |
| | | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AP-2 |
| **Permit Number:** | |
| **Well ID:** | PZ-31S |
| **Person Gauging:** | Jake Swanson |
| **Date:** | 2/19/2024 |
| **Time:** | 13:21:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☐ | ☐ | ☑ |
| | 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: | | | | |
| | | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AP-2 |
| **Permit Number:** | |
| **Well ID:** | PZ-13S |
| **Person Gauging:** | Jake Swanson |
| **Date:** | 2/19/2024 |
| **Time:** | 13:41:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☐ | ☐ | ☑ |
| | 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: | | | | |
| | | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AP-2 |
| **Permit Number:** | |
| **Well ID:** | PZ-13I |
| **Person Gauging:** | Jake Swanson |
| **Date:** | 2/19/2024 |
| **Time:** | 13:42:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☐ | ☐ | ☑ |
| | 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: | | | | |
| | | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AP-2 |
| **Permit Number:** | |
| **Well ID:** | PZ-1S |
| **Person Gauging:** | Jake Swanson |
| **Date:** | 2/19/2024 |
| **Time:** | 13:47:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☐ | ☐ | ☑ |
| | 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: | | | | |
| | | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AP-2 |
| **Permit Number:** | |
| **Well ID:** | PZ-3S |
| **Person Gauging:** | Jessica Ware |
| **Date:** | 2/19/2024 |
| **Time:** | 13:47:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☐ | ☐ | ☑ |
| | 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: | | | | |
| | | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

# Upgradient Wells

ARCADIS Design & Consultancy for natural and built assets

# Groundwater Gauging Log



| | |
|---|---|
| **Client:** | Georgia Power |
| **Project Location:** | AP-1 |
| **Date:** | 2/19/2024 |
| **Sampler:** | Jake Swanson<br>Jessica Ware |
| **Equipment:** | water probe |

| Well | Date | Time | Depth to Water (ft) | Well Depth (ft) | Comments |
|---|---|---|---|---|---|
| YGWA-47 | 2/19/2024 | 09:16:00 | 36.25 | 59.19 | -- |
| GWA-2 | 2/19/2024 | 09:57:00 | 38.11 | 52.13 | -- |
| YGWA-18I | 2/19/2024 | 11:19:00 | 24.78 | 79.97 | -- |
| YGWA-18S | 2/19/2024 | 11:22:00 | 22.11 | 39.97 | -- |
| YGWA-17S | 2/19/2024 | 11:27:00 | 12.21 | 39.85 | -- |
| YGWA-39 | 2/19/2024 | 11:51:00 | 21.03 | 68.59 | -- |
| YGWA-40 | 2/19/2024 | 12:12:00 | 24.99 | 48.23 | -- |
| YGWA-14S | 2/19/2024 | 12:16:00 | 18.53 | 34.96 | -- |
| YGWA-30I | 2/19/2024 | 13:29:00 | 45.23 | 59.48 | -- |
| YGWA-3D | 2/19/2024 | 13:43:00 | 33.15 | 134.18 | -- |
| YGWA-3I | 2/19/2024 | 13:45:00 | 52.41 | 59.05 | -- |
| YGWA-1I | 2/19/2024 | 13:47:00 | 39.56 | 53.60 | -- |
| YGWA-1D | 2/19/2024 | 13:52:00 | 51.10 | 128.85 | -- |
| YGWA-2I | 2/19/2024 | 13:56:00 | 46.92 | 63.75 | -- |
| YGWA-20S | 2/19/2024 | 14:04:00 | 11.25 | 29.52 | -- |
| YGWA-21I | 2/19/2024 | 14:10:00 | 31.61 | 79.90 | -- |
| YGWA-5D | 2/19/2024 | 14:19:00 | 20.07 | 129.13 | -- |
| YGWA-5I | 2/19/2024 | 14:20:00 | 21.00 | 58.94 | -- |
| YGWA-4I | 2/19/2024 | 14:26:00 | 25.20 | 48.81 | -- |

# Groundwater Sampling Form

Updated : 2/20/2024 3:46:54 PM +00:00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Project Number** | 30143607 | **Well ID** | YGWA-47 | | | **Date** | 2/20/2024 |
| **Project Location** | AP-1 | | **Weather(°F)** | It is Partly Cloudy. The wind is blowing undefined at 0.0 mph. 44 F | | | |
| **Measuring Pt. Description** | Top of Inner Casing | **Screen Setting (ft-bmp)** | 49.4 | **Casing Diameter (in)** | 2 | **Well Casing Material** | PVC |
| **Static Water Level (ft-bmp)** | 36.23 | **Total Depth (ft-bmp)** | 59.19 | **Water Column(ft)** | 22.96 | **Gallons in Well** | 3.73 |
| **MP Elevation** | 758.22 | **Pump Intake (ft-bmp)** | 54 | **Purge Method** | Low-Flow | **Sample Method** | Grab |
| **Sample Time** | 10:30 | **Well Volumes Purged** | 0.32 | **Sample ID** | YGWA-47 | **Sampled by** | Jake Swanson |
| **Purge Start** | 10:02 | **Gallons Purged** | 1.20 | **Replicate/ Code No.** | | **Color** | Clear |
| **Purge End** | 10:25 | | | | | | |

| Time | Total Elapsed Minutes | Rate (mL/min) | Depth to Water (ft) | pH (standard units) | Specific Conductivity (µS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature °C | Redox (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 10:02:00 | 00:00 | 200 | 36.23 | 5.66 | 175.18 | 0.65 | 3.74 | 16.80 | 193.93 |
| 10:05:00 | 02:47 | 200 | 37.06 | 5.63 | 172.62 | 0.65 | 2.91 | 17.00 | 199.52 |
| 10:10:00 | 07:47 | 200 | 37.23 | 5.61 | 174.48 | 0.22 | 2.40 | 16.90 | 202.31 |
| 10:15:00 | 12:47 | 200 | 37.26 | 5.61 | 184.07 | 0.20 | 2.27 | 17.00 | 205.61 |
| 10:20:00 | 17:47 | 200 | 37.28 | 5.61 | 184.23 | 0.24 | 2.19 | 17.10 | 207.49 |
| 10:25:00 | 22:47 | 200 | 37.27 | 5.62 | 184.00 | 0.02 | 2.14 | 17.20 | 209.74 |

| Constituent Sampled | Container | Number | Preservative |
|---|---|---|---|
| Alkalinity | 250 mL Plastic | 1 | None |
| Chloride | 250 mL Plastic | 1 | None |
| Metals | 250 mL Plastic | 1 | HNO3 |
| RAD Chem | 1L Plastic | 2 | HNO3 |
| TDS | 500 mL Plastic | 1 | None |

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

# Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/20/2024 4:42:30 PM +00:00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Project Number** | 30143623 | **Well ID** | YGWA-4I | | | **Date** | 2/20/2024 |
| **Project Location** | AMA AP-3, A, B and B' | | **Weather(°F)** | It is Mostly Cloudy. The wind is blowing N at 3.4 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)** | 25.18 | **Total Depth (ft-bmp)** | 48.81 | **Water Column(ft)** | 23.63 | **Gallons in Well** | 3.84 |
| **MP Elevation** | 784.21 | **Pump Intake (ft-bmp)** | 45 | **Purge Method** | Low-Flow | **Sample Method** | Low-Flow |
| **Sample Time** | 11:10 | **Well Volumes Purged** | 0.16 | **Sample ID** | YAT-YGWA-4I | **Sampled by** | Kim Lapszynski |
| **Purge Start** | 10:47 | **Gallons Purged** | 0.63 | **Replicate/ Code No.** | | **Color** | Clear |
| **Purge End** | 11:08 | | | | | | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| 10:47:00 | 00:00 | 150 | 25.18 | 7.12 | 126.56 | 1.43 | 9.25 | 12.50 | 156.51 |
| 10:52:00 | 05:00 | 125 | 25.79 | 6.27 | 134.90 | 0.33 | 3.65 | 14.10 | 151.13 |
| 10:57:00 | 10:00 | 100 | 25.98 | 6.23 | 136.41 | 0.52 | 2.17 | 14.70 | 147.22 |
| 11:02:00 | 15:00 | 100 | 26.08 | 6.21 | 136.58 | 0.35 | 2.13 | 14.80 | 145.79 |
| 11:07:00 | 20:00 | 100 | 26.17 | 6.21 | 135.74 | 0.14 | 2.02 | 14.90 | 141.24 |

| Constituent Sampled | Container | Number | Preservative |
|---|---|---|---|
| Alkalinity | 250 mL Plastic | 1 | None |
| App III/IV Metals, Ca, Na, K, Mg | 250 mL Plastic | 1 | HNO3 |
| Cl, F, SO4 | 250 mL Plastic | 1 | None |
| RAD 226/228 | 1L Plastic | 2 | HNO3 |
| Total Dissolved Solids | 500 mL Plastic | 1 | None |

**Comments:** No 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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

# Groundwater Sampling Form

Updated : 2/20/2024 5:39:30 PM +00:00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Project Number** | 30052922 | **Well ID** | YGWA-1I | | | **Date** | 2/20/2024 |
| **Project Location** | AP-2 | | **Weather(°F)** | 54.0 degrees F and Mostly Cloudy. The wind is blowing undefined at 0.0 mph. | | | |
| **Measuring Pt. Description** | Top of Inner Casing | **Screen Setting (ft-bmp)** | 43.3 | **Casing Diameter (in)** | 2 | **Well Casing Material** | PVC |
| **Static Water Level (ft-bmp)** | 39.54 | **Total Depth (ft-bmp)** | 53.6 | **Water Column(ft)** | 14.06 | **Gallons in Well** | 2.28 |
| **MP Elevation** | 836.6 | **Pump Intake (ft-bmp)** | 49 | **Purge Method** | Low-Flow | **Sample Method** | Low-Flow |
| **Sample Time** | 12:02 | **Well Volumes Purged** | 1.22 | **Sample ID** | YAT-YGWA-1I | **Sampled by** | Mark Chest |
| **Purge Start** | 10:24 | **Gallons Purged** | 2.77 | **Replicate/ Code No.** | | **Color** | Clear |
| **Purge End** | 11:59 | | | | | | |

| Time | Total Elapsed Minutes | Rate (mL/min) | Depth to Water (ft) | pH (standard units) | Specific Conductivity (µS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature °C | Redox (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 10:24:00 | 00:00 | 200 | 39.54 | 6.96 | 61.29 | 0.61 | 10.34 | 13.30 | 203.36 |
| 10:29:00 | 05:00 | 200 | 44.05 | 6.23 | 48.83 | 0.38 | 2.10 | 16.00 | 79.79 |
| 10:34:00 | 10:00 | 200 | 44.75 | 6.15 | 47.95 | 0.45 | 4.42 | 16.10 | 96.60 |
| 10:39:00 | 15:00 | 200 | 45.23 | 6.14 | 61.70 | 0.63 | 1.28 | 16.20 | 62.10 |
| 10:44:00 | 20:00 | 200 | 45.78 | 6.08 | 55.38 | 0.93 | 1.34 | 16.10 | 89.36 |
| 10:49:00 | 25:00 | 200 | 46.25 | 6.11 | 57.33 | 0.23 | 0.44 | 16.10 | 93.81 |
| 10:54:00 | 30:00 | 100 | 46.95 | 6.26 | 63.76 | 0.02 | 0.26 | 16.00 | 38.79 |
| 10:59:00 | 35:00 | 100 | 47.88 | 6.46 | 78.04 | 0.10 | 0.23 | 15.90 | -41.72 |
| 11:04:00 | 40:00 | 100 | 48.5 | 6.58 | 82.00 | 0.54 | 0.20 | 15.80 | -86.39 |
| 11:09:00 | 45:00 | 100 | 48.5 | 6.62 | 78.95 | 1.30 | 0.70 | 15.80 | -80.24 |
| 11:14:00 | 50:00 | 75 | 48.5 | 6.63 | 73.59 | 13.30 | 2.09 | 15.60 | -52.91 |
| 11:19:00 | 55:00 | 75 | 48.5 | 6.62 | 66.93 | 15.50 | 3.40 | 15.70 | -32.99 |
| 11:24:00 | 00:00 | 50 | 48.5 | 6.54 | 59.77 | 13.40 | 5.10 | 15.60 | -8.11 |
| 11:29:00 | 05:00 | 50 | 48.5 | 6.45 | 55.06 | 10.20 | 6.12 | 15.60 | 8.94 |
| 11:34:00 | 10:00 | 50 | 48.5 | 6.46 | 51.21 | 7.88 | 6.85 | 15.60 | 18.49 |
| 11:39:00 | 15:00 | 50 | 48.5 | 6.51 | 49.19 | 5.03 | 7.32 | 15.70 | 24.61 |
| 11:44:00 | 20:00 | 50 | 48.5 | 6.49 | 48.08 | 4.87 | 7.63 | 15.70 | 33.23 |
| 11:49:00 | 25:00 | 50 | 48.5 | 6.46 | 47.38 | 2.75 | 7.85 | 15.80 | 39.43 |
| 11:54:00 | 30:00 | 50 | 48.5 | 6.44 | 46.89 | 2.91 | 8.03 | 15.70 | 46.06 |
| 11:59:00 | 35:00 | 50 | 48.5 | 6.42 | 46.60 | 2.54 | 8.16 | 15.80 | 51.25 |

| Constituent Sampled | Container | Number | Preservative |
|---|---|---|---|
| ALK | 250 mL Plastic | 1 | None |
| Cl, F, SO4 | 250 mL Plastic | 1 | None |
| Metals | 250 mL Plastic | 1 | HNO3 |

# Groundwater Sampling Form

| | | | |
|---|---|---|---|
| RAD Chem | 1L Plastic | 2 | HNO3 |
| TDS | 500 mL Plastic | 1 | None |

**Comments:** Sampling Turbidity 1.35 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: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

# Groundwater Sampling Form

Updated : 2/20/2024 5:44:37 PM +00:00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Project Number** | 30143608 | **Well ID** | GWA-2 | | | **Date** | 2/20/2024 |
| **Project Location** | Gypsum Landfill | | **Weather(°F)** | It is Mostly Cloudy. The wind is blowing N at 3.4 mph. 48F | | | |
| **Measuring Pt. Description** | Top of Inner Casing | **Screen Setting (ft-bmp)** | 42.1 | **Casing Diameter (in)** | 2 | **Well Casing Material** | PVC |
| **Static Water Level (ft-bmp)** | 38.1 | **Total Depth (ft-bmp)** | 52.13 | **Water Column(ft)** | 14.03 | **Gallons in Well** | 2.28 |
| **MP Elevation** | 805.62 | **Pump Intake (ft-bmp)** | 47 | **Purge Method** | Low-Flow | **Sample Method** | Grab |
| **Sample Time** | 11:50 | **Well Volumes Purged** | 0.48 | **Sample ID** | GWA-2 | **Sampled by** | Jake Swanson |
| **Purge Start** | 11:19 | **Gallons Purged** | 1.09 | **Replicate/ Code No.** | | **Color** | Clear |
| **Purge End** | 11:44 | | | | | | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| 11:19:00 | 00:00 | 200 | 38.1 | 6.62 | 273.64 | 1.02 | 8.90 | 15.20 | 199.97 |
| 11:24:00 | 05:00 | 200 | 39.11 | 6.16 | 333.29 | 0.02 | 1.47 | 17.00 | 99.69 |
| 11:29:00 | 10:00 | 150 | 39.47 | 6.11 | 321.48 | 0.02 | 0.58 | 17.00 | 112.65 |
| 11:34:00 | 15:00 | 150 | 39.72 | 6.09 | 303.94 | 0.02 | 0.41 | 16.80 | 125.70 |
| 11:39:00 | 20:00 | 125 | 39.81 | 6.08 | 295.88 | 0.02 | 0.33 | 16.60 | 130.81 |
| 11:44:00 | 25:00 | 125 | 39.82 | 6.07 | 291.98 | 0.02 | 0.26 | 16.60 | 130.98 |

| Constituent Sampled | Container | Number | Preservative |
|---|---|---|---|
| Alkalinity | 250 mL Plastic | 1 | None |
| Chloride | 250 mL Plastic | 1 | None |
| Metals | 250 mL Plastic | 1 | HNO3 |
| RAD Chem | 1L Plastic | 2 | HNO3 |
| TDS | 500 mL Plastic | 1 | None |

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

# Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/20/2024 5:58:21 PM +00:00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Project Number** | 30143608 | **Well ID** | YGWA-3D | | | **Date** | 2/20/2024 |
| **Project Location** | AP-2 | | **Weather(°F)** | 55.8 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph. | | | |
| **Measuring Pt. Description** | Top of Inner Casing | **Screen Setting (ft-bmp)** | 83.88 | **Casing Diameter (in)** | 2 | **Well Casing Material** | PVC |
| **Static Water Level (ft-bmp)** | 33.25 | **Total Depth (ft-bmp)** | 134.18 | **Water Column(ft)** | 100.93 | **Gallons in Well** | 16.40 |
| **MP Elevation** | 796.78 | **Pump Intake (ft-bmp)** | 113 | **Purge Method** | Low-Flow | **Sample Method** | Grab |
| **Sample Time** | 11:35 | **Well Volumes Purged** | 0.05 | **Sample ID** | YAT-YGWA-3D | **Sampled by** | David Prouty |
| **Purge Start** | 11:00 | **Gallons Purged** | 0.79 | **Replicate/ Code No.** | | **Color** | Clear |
| **Purge End** | 11:30 | | | | | | |

| Time | Total Elapsed Minutes | Rate (mL/min) | Depth to Water (ft) | pH (standard units) | Specific Conductivity (µS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature °C | Redox (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 11:00:00 | 00:00 | 100 | 33.3 | 7.54 | 219.66 | 1.07 | 7.99 | 13.80 | 205.24 |
| 11:05:00 | 05:00 | 100 | 33.3 | 7.15 | 216.12 | 2.57 | 0.93 | 15.40 | -65.65 |
| 11:10:00 | 10:00 | 100 | 33.3 | 7.56 | 216.72 | 3.44 | 0.32 | 15.40 | -67.69 |
| 11:15:00 | 15:00 | 100 | 33.3 | 7.72 | 216.12 | 0.91 | 0.30 | 15.00 | -74.60 |
| 11:20:00 | 20:00 | 100 | 33.3 | 7.79 | 216.36 | 2.20 | 0.25 | 14.90 | -90.38 |
| 11:25:00 | 25:00 | 100 | 33.3 | 7.82 | 216.35 | 2.21 | 0.22 | 14.90 | -105.05 |
| 11:30:00 | 30:00 | 100 | 33.3 | 7.81 | 216.38 | 2.99 | 0.21 | 15.00 | -112.07 |

| Constituent Sampled | Container | Number | Preservative |
|---|---|---|---|
| Alkalinity | 250 mL Plastic | 1 | None |
| Metals | 250 mL Plastic | 1 | HNO3 |
| RAD Chem | 1L Plastic | 2 | HNO3 |
| SulfateChloride | 250 mL Plastic | 1 | None |
| TDS | 500 mL Plastic | 1 | None |

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

# Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/20/2024 5:59:52 PM +00:00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Project Number** | 30143622 | **Well ID** | YGWA-17S | | | **Date** | 2/20/2024 |
| **Project Location** | AMA AP-3, A, B and B' | | **Weather(°F)** | | | | |
| **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)** | 12.23 | **Total Depth (ft-bmp)** | 39.85 | **Water Column(ft)** | 27.62 | **Gallons in Well** | 4.49 |
| **MP Elevation** | 783.05 | **Pump Intake (ft-bmp)** | 35 | **Purge Method** | Low-Flow | **Sample Method** | Low-Flow |
| **Sample Time** | 10:37 | **Well Volumes Purged** | 0.24 | **Sample ID** | YAT-YGWA-17S | **Sampled by** | Jessica Ware |
| **Purge Start** | 10:13 | **Gallons Purged** | 1.06 | **Replicate/ Code No.** | | **Color** | Clear |
| **Purge End** | 10:36 | | | | | | |

| Time | Total Elapsed Minutes | Rate (mL/min) | Depth to Water (ft) | pH (standard units) | Specific Conductivity (µS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature °C | Redox (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 10:13:00 | 00:00 | 200 | 12.23 | 5.52 | 100.84 | 1.81 | 3.00 | 14.90 | 215.20 |
| 10:18:00 | 05:00 | 200 | 12.63 | 5.61 | 99.42 | 0.94 | 2.11 | 15.50 | 201.25 |
| 10:23:00 | 10:00 | 200 | 12.6 | 5.64 | 100.17 | 1.63 | 2.06 | 15.70 | 194.62 |
| 10:28:00 | 15:00 | 200 | 12.6 | 5.63 | 100.45 | 1.30 | 2.06 | 15.70 | 192.91 |
| 10:33:00 | 20:00 | 200 | 12.6 | 5.64 | 100.89 | 1.05 | 2.06 | 15.80 | 191.03 |

| Constituent Sampled | Container | Number | Preservative |
|---|---|---|---|
| Alkalinity | 250 mL Plastic | 1 | None |
| App III/IV Metals, Ca, Na, K, Mg | 250 mL Plastic | 1 | HNO3 |
| Cl, F, SO4 | 250 mL Plastic | 1 | None |
| RAD Chem | 1L Plastic | 2 | HNO3 |
| TDS | 500 mL Plastic | 1 | None |

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

# Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/20/2024 6:27:58 PM +00:00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Project Number** | 30143622 | **Well ID** | YGWA-18I | | | **Date** | 2/20/2024 |
| **Project Location** | AMA AP-3, A, B and B' | | **Weather(°F)** | 55.0 degrees F and Cloudy. The wind is blowing undefined at 0.0 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)** | 24.78 | **Total Depth (ft-bmp)** | 79.97 | **Water Column(ft)** | 55.19 | **Gallons in Well** | 8.97 |
| **MP Elevation** | 790.57 | **Pump Intake (ft-bmp)** | 75 | **Purge Method** | Low-Flow | **Sample Method** | Low-Flow |
| **Sample Time** | 12:48 | **Well Volumes Purged** | | **Sample ID** | YAT-YGWA-18I | **Sampled by** | Jessica Ware |
| **Purge Start** | 12:26 | **Gallons Purged** | | **Replicate/ Code No.** | | **Color** | Clear |
| **Purge End** | 12:47 | | | | | | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| 12:26:00 | 00:00 | 200 | 24.78 | 6.66 | 106.99 | 1.62 | 8.62 | 13.80 | 205.90 |
| 12:31:00 | 05:00 | 200 | 24.99 | 6.10 | 111.77 | 1.85 | 3.93 | 15.60 | 200.09 |
| 12:36:00 | 10:00 | 200 | 25.01 | 6.10 | 112.38 | 1.16 | 3.93 | 15.70 | 195.32 |
| 12:41:00 | 15:00 | 200 | 25.04 | 6.10 | 112.58 | 1.69 | 3.86 | 15.80 | 192.79 |
| 12:46:00 | 20:00 | 200 | 25.03 | 6.11 | 113.27 | 1.43 | 3.84 | 15.90 | 189.98 |

| Constituent Sampled | Container | Number | Preservative |
|---|---|---|---|
| Alkalinity | 250 mL Plastic | 1 | None |
| App III/IV Metals, Ca, Na, K, Mg | 250 mL Plastic | 1 | HNO3 |
| Cl, F, SO4 | 250 mL Plastic | 1 | None |
| RAD Chem | 250 mL Plastic | 2 | HNO3 |
| TDS | 500 mL Plastic | 1 | None |

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

# Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/20/2024 6:52:38 PM +00:00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Project Number** | 30052922 | **Well ID** | YGWA-1D | | | **Date** | 2/20/2024 |
| **Project Location** | AP-2 | | **Weather(°F)** | 55.6 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph. | | | |
| **Measuring Pt. Description** | Top of Inner Casing | **Screen Setting (ft-bmp)** | 78.05 | **Casing Diameter (in)** | 2 | **Well Casing Material** | PVC |
| **Static Water Level (ft-bmp)** | 51.11 | **Total Depth (ft-bmp)** | 128.85 | **Water Column(ft)** | 77.74 | **Gallons in Well** | 12.63 |
| **MP Elevation** | 837.25 | **Pump Intake (ft-bmp)** | 108 | **Purge Method** | Low-Flow | **Sample Method** | Low-Flow |
| **Sample Time** | 13:24 | **Well Volumes Purged** | 0.19 | **Sample ID** | YAT-YGWA-1D | **Sampled by** | Mark Chest |
| **Purge Start** | 12:36 | **Gallons Purged** | 2.38 | **Replicate/ Code No.** | | **Color** | Clear |
| **Purge End** | 13:21 | | | | | | |

| Time | Total Elapsed Minutes | Rate (mL/min) | Depth to Water (ft) | pH (standard units) | Specific Conductivity (µS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature °C | Redox (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 12:36:00 | 00:00 | 200 | 51.11 | 6.92 | 118.93 | 0.44 | 9.78 | 13.90 | 44.01 |
| 12:41:00 | 05:00 | 200 | 51.15 | 6.97 | 109.20 | 0.99 | 2.38 | 15.70 | -90.07 |
| 12:46:00 | 10:00 | 200 | 51.17 | 7.21 | 119.64 | 1.01 | 1.14 | 15.80 | -115.18 |
| 12:51:00 | 15:00 | 200 | 51.21 | 7.15 | 115.60 | 0.52 | 0.87 | 15.80 | -106.19 |
| 12:56:00 | 20:00 | 200 | 51.25 | 7.12 | 116.50 | 2.19 | 0.79 | 15.90 | -98.20 |
| 13:01:00 | 25:00 | 200 | 51.27 | 7.10 | 112.07 | 2.00 | 0.76 | 15.90 | -91.22 |
| 13:06:00 | 30:00 | 200 | 51.29 | 7.09 | 105.06 | 1.80 | 0.68 | 15.90 | -82.45 |
| 13:11:00 | 35:00 | 200 | 51.27 | 7.07 | 103.82 | 1.97 | 0.74 | 15.90 | -72.13 |
| 13:16:00 | 40:00 | 200 | 51.3 | 7.07 | 101.39 | 1.00 | 0.67 | 16.00 | -65.36 |
| 13:21:00 | 45:00 | 200 | 51.32 | 7.06 | 106.59 | 1.42 | 0.72 | 16.00 | -59.66 |

| Constituent Sampled | Container | Number | Preservative |
|---|---|---|---|
| ALK | 250 mL Plastic | 1 | None |
| Cl, F, SO4 | 250 mL Plastic | 1 | None |
| Metals | 250 mL Plastic | 1 | HNO3 |
| RAD Chem | 1L Plastic | 2 | HNO3 |
| TDS | 500 mL Plastic | 1 | None |

**Comments:** No comment

**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: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

# Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/20/2024 6:59:30 PM +00:00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Project Number** | 30143623 | **Well ID** | YGWA-5D | | | **Date** | 2/20/2024 |
| **Project Location** | AMA AP-3, A, B and B' | | **Weather(°F)** | 55.8 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph. | | | |
| **Measuring Pt. Description** | Top of Inner Casing | **Screen Setting (ft-bmp)** | 78.83 | **Casing Diameter (in)** | 2 | **Well Casing Material** | PVC |
| **Static Water Level (ft-bmp)** | 20.13 | **Total Depth (ft-bmp)** | 129.13 | **Water Column(ft)** | 109.00 | **Gallons in Well** | 17.71 |
| **MP Elevation** | 784.53 | **Pump Intake (ft-bmp)** | 124 | **Purge Method** | Low-Flow | **Sample Method** | Low-Flow |
| **Sample Time** | 13:25 | **Well Volumes Purged** | 0.07 | **Sample ID** | YAT-YGWA-5D | **Sampled by** | Kim Lapszynski |
| **Purge Start** | 13:00 | **Gallons Purged** | 1.25 | **Replicate/ Code No.** | | **Color** | Clear |
| **Purge End** | 13:20 | | | | | | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| 13:00:00 | 00:00 | 275 | 20.13 | 7.10 | 210.83 | 0.68 | 1.50 | 15.90 | -145.07 |
| 13:05:00 | 05:00 | 275 | 21.04 | 7.61 | 225.10 | 0.13 | 0.07 | 16.30 | -208.38 |
| 13:10:00 | 10:00 | 200 | 20.96 | 7.57 | 218.67 | 0.26 | 0.05 | 16.20 | -216.49 |
| 13:15:00 | 15:00 | 200 | 20.96 | 7.57 | 216.78 | 0.19 | 0.03 | 16.30 | -220.90 |
| 13:20:00 | 20:00 | 200 | 20.96 | 7.56 | 216.06 | 0.20 | 0.02 | 16.30 | -222.06 |

| Constituent Sampled | Container | Number | Preservative |
|---|---|---|---|
| Alkalinity | 250 mL Plastic | 1 | None |
| App III/IV Metals, Ca, Na, K, Mg | 250 mL Plastic | 1 | HNO3 |
| Cl, F, SO4 | 250 mL Plastic | 1 | None |
| RAD 226/228 | 1L Plastic | 2 | HNO3 |
| Total Dissolved Solids | 500 mL Plastic | 1 | None |

**Comments:** No 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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

# Groundwater Sampling Form

Updated : 2/20/2024 7:06:29 PM +00:00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Project Number** | 30143622 | **Well ID** | YGWA-39 | | | **Date** | 2/20/2024 |
| **Project Location** | AMA R6 CCR Landfill | | **Weather(°F)** | 55.6 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph. | | | |
| **Measuring Pt. Description** | Top of Inner Casing | **Screen Setting (ft-bmp)** | 58.09 | **Casing Diameter (in)** | 2 | **Well Casing Material** | PVC |
| **Static Water Level (ft-bmp)** | 21.01 | **Total Depth (ft-bmp)** | 68.59 | **Water Column(ft)** | 47.58 | **Gallons in Well** | 7.73 |
| **MP Elevation** | 818.19 | **Pump Intake (ft-bmp)** | 63 | **Purge Method** | Low-Flow | **Sample Method** | Low-Flow |
| **Sample Time** | 13:58 | **Well Volumes Purged** | | **Sample ID** | YAT-YGWA-39 | **Sampled by** | Jessica Ware |
| **Purge Start** | 13:34 | **Gallons Purged** | | **Replicate/ Code No.** | | **Color** | Clear |
| **Purge End** | 13:57 | | | | | | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| 13:34:00 | 00:00 | 250 | 21.01 | 7.06 | 359.89 | 2.39 | 9.02 | 16.00 | 162.15 |
| 13:39:00 | 05:00 | 250 | 21.41 | 6.00 | 371.93 | 1.84 | 0.24 | 17.90 | 57.08 |
| 13:44:00 | 10:00 | 250 | 21.46 | 5.99 | 373.95 | 0.84 | 0.12 | 17.90 | 48.95 |
| 13:49:00 | 15:00 | 250 | 21.42 | 5.98 | 374.40 | 1.09 | 0.09 | 17.90 | 52.10 |
| 13:54:00 | 20:00 | 250 | 21.47 | 5.97 | 372.43 | 0.84 | 0.09 | 17.90 | 54.05 |

| Constituent Sampled | Container | Number | Preservative |
|---|---|---|---|
| Alkalinity | 250 mL Plastic | 1 | None |
| App III/IV Metals, Ca, Na, K, Mg | 250 mL Plastic | 1 | HNO3 |
| Cl, F, SO4 | 250 mL Plastic | 1 | None |
| RAD Chem | 1L Plastic | 2 | HNO3 |
| TDS | 500 mL Plastic | 1 | None |

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

# Groundwater Sampling Form

Updated : 2/20/2024 7:42:15 PM +00:00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Project Number** | 30143608 | **Well ID** | YGWA-3I | | | **Date** | 2/20/2024 |
| **Project Location** | AP-2 | | **Weather(°F)** | 55.6 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph. | | | |
| **Measuring Pt. Description** | Top of Inner Casing | **Screen Setting (ft-bmp)** | 48.85 | **Casing Diameter (in)** | 2 | **Well Casing Material** | PVC |
| **Static Water Level (ft-bmp)** | 52.45 | **Total Depth (ft-bmp)** | 59.05 | **Water Column(ft)** | 6.60 | **Gallons in Well** | 1.07 |
| **MP Elevation** | 796.55 | **Pump Intake (ft-bmp)** | 54 | **Purge Method** | Low-Flow | **Sample Method** | Grab |
| **Sample Time** | 13:50 | **Well Volumes Purged** | 0.86 | **Sample ID** | YAT-YGWA-3I | **Sampled by** | David Prouty |
| **Purge Start** | 13:12 | **Gallons Purged** | 0.92 | **Replicate/ Code No.** | | **Color** | Clear |
| **Purge End** | 13:47 | | | | | | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| 13:12:00 | 00:00 | 100 | 52.45 | 7.58 | 244.91 | 5.19 | 5.51 | 15.90 | 32.40 |
| 13:17:00 | 05:00 | 100 | 52.73 | 7.58 | 250.10 | 1.83 | 4.54 | 15.80 | 40.01 |
| 13:22:00 | 10:00 | 100 | 52.7 | 7.58 | 249.45 | 2.28 | 3.67 | 15.70 | -9.65 |
| 13:27:00 | 15:00 | 100 | 52.69 | 7.57 | 244.67 | 2.89 | 2.68 | 15.70 | -44.38 |
| 13:32:00 | 20:00 | 100 | 52.67 | 7.57 | 238.81 | 2.00 | 1.94 | 15.60 | -61.43 |
| 13:37:00 | 25:00 | 100 | 52.66 | 7.58 | 231.24 | 0.81 | 1.37 | 15.50 | -75.91 |
| 13:42:00 | 30:00 | 100 | 52.66 | 7.59 | 224.58 | 1.48 | 1.09 | 15.50 | -84.60 |
| 13:47:00 | 35:00 | 100 | 52.66 | 7.59 | 220.31 | 1.65 | 1.01 | 15.40 | -87.56 |

| Constituent Sampled | Container | Number | Preservative |
|---|---|---|---|
| Alkalinity | 250 mL Plastic | 1 | None |
| Metals | 250 mL Plastic | 1 | HNO3 |
| RAD Chem | 1L Plastic | 2 | HNO3 |
| SulfateChloride | 250 mL Plastic | 1 | None |
| TDS | 500 mL Plastic | 1 | None |

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

# Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/20/2024 8:19:41 PM +00:00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Project Number** | 30143623 | **Well ID** | YGWA-20S | | | **Date** | 2/20/2024 |
| **Project Location** | AMA AP-3, A, B and B' | | **Weather(°F)** | 57.2 degrees F and Mostly Cloudy. The wind is blowing S/SE at 3.4 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)** | 11.28 | **Total Depth (ft-bmp)** | 29.52 | **Water Column(ft)** | 18.24 | **Gallons in Well** | 2.96 |
| **MP Elevation** | 767.12 | **Pump Intake (ft-bmp)** | 24.5 | **Purge Method** | Low-Flow | **Sample Method** | Low-Flow |
| **Sample Time** | 14:40 | **Well Volumes Purged** | 0.29 | **Sample ID** | YGWA-20S | **Sampled by** | Kim Lapszynski |
| **Purge Start** | 14:18 | **Gallons Purged** | 0.86 | **Replicate/ Code No.** | | **Color** | Clear |
| **Purge End** | 14:38 | | | | | | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| 14:18:00 | 00:00 | 200 | 11.28 | 6.70 | 58.05 | 3.10 | 8.92 | 15.90 | 169.10 |
| 14:23:00 | 05:00 | 150 | 11.99 | 5.99 | 58.46 | 4.32 | 7.77 | 16.20 | 158.27 |
| 14:28:00 | 10:00 | 150 | 11.92 | 6.01 | 58.51 | 2.33 | 7.72 | 16.30 | 158.38 |
| 14:33:00 | 15:00 | 150 | 11.91 | 6.00 | 58.44 | 1.68 | 7.68 | 16.30 | 157.03 |
| 14:38:00 | 20:00 | 150 | 11.91 | 5.99 | 58.50 | 1.78 | 7.71 | 16.20 | 157.36 |

| Constituent Sampled | Container | Number | Preservative |
|---|---|---|---|
| Alkalinity | 250 mL Plastic | 1 | None |
| App III/IV Metals, Ca, Na, K, Mg | 250 mL Plastic | 1 | HNO3 |
| Cl, F, SO4 | 250 mL Plastic | 1 | None |
| RAD 226/228 | 1L Plastic | 2 | HNO3 |
| Total Dissolved Solids | 500 mL Plastic | 1 | None |

**Comments:** No 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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

# Groundwater Sampling Form

Updated : 2/20/2024 10:01:22 PM +00:00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Project Number** | 30143608 | **Well ID** | YGWA-30I | | | **Date** | 2/20/2024 |
| **Project Location** | AP-2 | | **Weather(°F)** | 60.3 degrees F and Clear. The wind is blowing undefined at 0.0 mph. | | | |
| **Measuring Pt. Description** | Top of Inner Casing | **Screen Setting (ft-bmp)** | 49.18 | **Casing Diameter (in)** | 2 | **Well Casing Material** | PVC |
| **Static Water Level (ft-bmp)** | 45.2 | **Total Depth (ft-bmp)** | 59.48 | **Water Column(ft)** | 14.28 | **Gallons in Well** | 2.32 |
| **MP Elevation** | 762.58 | **Pump Intake (ft-bmp)** | 54.5 | **Purge Method** | Low-Flow | **Sample Method** | Grab |
| **Sample Time** | 16:25 | **Well Volumes Purged** | 0.23 | **Sample ID** | YAT-YGWA-30I | **Sampled by** | David Prouty |
| **Purge Start** | 16:00 | **Gallons Purged** | 0.53 | **Replicate/ Code No.** | | **Color** | Clear |
| **Purge End** | 16:20 | | | | | | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| 16:00:00 | 00:00 | 100 | 45.2 | 5.76 | 41.45 | 2.06 | 7.36 | 17.20 | 211.18 |
| 16:05:00 | 05:00 | 100 | 45.2 | 5.84 | 43.89 | 0.49 | 7.01 | 18.30 | 204.26 |
| 16:10:00 | 10:00 | 100 | 45.2 | 5.83 | 41.09 | 1.46 | 7.17 | 16.70 | 191.72 |
| 16:15:00 | 15:00 | 100 | 45.2 | 5.80 | 41.18 | 0.41 | 7.21 | 17.00 | 193.51 |
| 16:20:00 | 20:00 | 100 | 45.2 | 5.81 | 40.92 | 1.39 | 7.20 | 16.70 | 193.81 |

| Constituent Sampled | Container | Number | Preservative |
|---|---|---|---|
| Alkalinity | 250 mL Plastic | 1 | None |
| Metals | 1L Plastic | 1 | HNO3 |
| RAD Chem | 1L Plastic | 2 | HNO3 |
| SulfateChloride | 250 mL Plastic | 1 | None |
| TDS | 500 mL Plastic | 1 | None |

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

# Groundwater Sampling Form

Updated : 2/20/2024 10:14:55 PM +00:00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Project Number** | 30143622 | **Well ID** | YGWA-40 | | | **Date** | 2/20/2024 |
| **Project Location** | AMA R6 CCR Landfill | | **Weather(°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)** | 25 | **Total Depth (ft-bmp)** | 48.23 | **Water Column(ft)** | 23.23 | **Gallons in Well** | 3.77 |
| **MP Elevation** | 815.73 | **Pump Intake (ft-bmp)** | 42 | **Purge Method** | Low-Flow | **Sample Method** | Low-Flow |
| **Sample Time** | 15:10 | **Well Volumes Purged** | | **Sample ID** | YAT-YGWA-40 | **Sampled by** | Jessica Ware |
| **Purge Start** | 14:41 | **Gallons Purged** | | **Replicate/ Code No.** | | **Color** | Clear |
| **Purge End** | 15:09 | | | | | | |

| Time | Total Elapsed Minutes | Rate (mL/min) | Depth to Water (ft) | pH (standard units) | Specific Conductivity (µS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature °C | Redox (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 14:41:00 | 00:00 | 350 | 25 | 6.24 | 115.47 | 0.89 | 8.49 | 16.60 | 128.06 |
| 14:46:00 | 05:00 | 300 | 26 | 5.27 | 109.75 | 1.07 | 0.14 | 17.10 | 149.97 |
| 14:51:00 | 10:00 | 300 | 26.33 | 5.25 | 109.41 | 0.02 | 0.09 | 17.10 | 160.94 |
| 14:56:00 | 15:00 | 200 | 26.01 | 5.29 | 109.66 | 1.21 | 0.10 | 17.00 | 164.76 |
| 15:01:00 | 20:00 | 200 | 25.95 | 5.31 | 109.56 | 0.63 | 0.08 | 17.00 | 169.48 |
| 15:06:00 | 25:00 | 200 | 25.94 | 5.32 | 109.19 | 0.51 | 0.07 | 16.90 | 178.49 |

| Constituent Sampled | Container | Number | Preservative |
|---|---|---|---|
| Alkalinity | 250 mL Plastic | 1 | None |
| App III/IV, Ca, Na, K, Mg | 250 mL Plastic | 1 | HNO3 |
| Cl, F, SO4 | 250 mL Plastic | 1 | None |
| RAD Chem | 1L Plastic | 2 | HNO3 |
| TDS | 500 mL Plastic | 1 | None |

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

# Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/20/2024 10:27:58 PM +00:00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Project Number** | 30143623 | **Well ID** | YGWA-21I | | | **Date** | 2/20/2024 |
| **Project Location** | AMA AP-3, A, B and B' | | **Weather(°F)** | 59.4 degrees F and Partly Cloudy. The wind is blowing N at 3.4 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)** | 31.62 | **Total Depth (ft-bmp)** | 79.9 | **Water Column(ft)** | 48.28 | **Gallons in Well** | 7.85 |
| **MP Elevation** | 783.7 | **Pump Intake (ft-bmp)** | 75 | **Purge Method** | Low-Flow | **Sample Method** | Low-Flow |
| **Sample Time** | 16:38 | **Well Volumes Purged** | 0.21 | **Sample ID** | YGWA-21I | **Sampled by** | Kim Lapszynski |
| **Purge Start** | 15:24 | **Gallons Purged** | 1.68 | **Replicate/ Code No.** | YAT-UGRD-FB-2 | **Color** | Clear |
| **Purge End** | 16:36 | | | | | | |

| Time | Total Elapsed Minutes | Rate (mL/min) | Depth to Water (ft) | pH (standard units) | Specific Conductivity (µS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature °C | Redox (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 15:24:00 | 00:00 | 150 | 31.62 | 7.47 | 143.12 | 1.22 | 9.51 | 19.20 | 149.92 |
| 15:29:00 | 05:00 | 150 | 32.89 | 6.52 | 153.18 | 1.29 | 1.94 | 17.20 | -3.92 |
| 15:34:00 | 10:00 | 100 | 33.78 | 6.78 | 170.51 | 3.31 | 0.74 | 17.30 | -55.12 |
| 15:39:00 | 15:00 | 100 | 34.42 | 6.78 | 171.38 | 2.80 | 0.62 | 17.40 | -61.37 |
| 15:44:00 | 20:00 | 100 | 34.93 | 6.81 | 168.40 | 1.85 | 0.56 | 17.50 | -60.99 |
| 15:49:00 | 25:00 | 100 | 35.3 | 6.79 | 163.66 | 1.27 | 0.64 | 17.40 | -57.09 |
| 15:54:00 | 30:00 | 100 | 35.71 | 6.76 | 158.54 | 1.05 | 0.63 | 17.50 | -49.74 |
| 15:59:00 | 35:00 | 100 | 36.05 | 6.75 | 154.65 | 1.09 | 0.69 | 17.40 | -46.59 |
| 16:04:00 | 40:00 | 75 | 36.35 | 6.73 | 151.99 | 0.93 | 0.83 | 17.70 | -42.68 |
| 16:09:00 | 45:00 | 75 | 36.75 | 6.72 | 151.34 | 1.15 | 0.67 | 17.30 | -45.72 |
| 16:14:00 | 50:00 | 75 | 37.02 | 6.73 | 152.58 | 0.84 | 0.79 | 17.60 | -44.31 |
| 16:19:00 | 55:00 | 50 | 37.16 | 6.75 | 151.55 | 0.91 | 1.12 | 17.70 | -39.43 |
| 16:24:00 | 00:00 | 50 | 37.34 | 6.74 | 151.20 | 0.77 | 1.16 | 17.70 | -38.92 |
| 16:29:00 | 05:00 | 50 | 37.48 | 6.77 | 153.11 | 1.08 | 1.23 | 17.70 | -40.66 |
| 16:34:00 | 10:00 | 50 | 37.57 | 6.78 | 154.48 | 0.72 | 1.15 | 17.70 | -42.41 |

| Constituent Sampled | Container | Number | Preservative |
|---|---|---|---|
| Alkalinity | 250 mL Plastic | 1 | None |
| App III/IV Metals, Ca, Na, K, Mg | 250 mL Plastic | 1 | HNO3 |
| Cl, F, SO4 | 250 mL Plastic | 1 | None |
| RAD 226/228 | 1L Plastic | 2 | HNO3 |
| Total Dissolved Solids | 500 mL Plastic | 1 | None |

**Comments:** Decreased flow rate to 50 mL/min due to drawdown greater than 0.3 ft between 5 minute interval readings.

**Well Casing Volume Conversion**

# Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/20/2024 10:34:41 PM +00:00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Project Number** | 30143623 | **Well ID** | YGWA-5I | | | **Date** | 2/20/2024 |
| **Project Location** | AMA AP-3, A, B and B' | | **Weather(°F)** | 54.0 degrees F and Mostly Cloudy. The wind is blowing undefined at 0.0 mph. | | | |
| **Measuring Pt. Description** | Top of Inner Casing | **Screen Setting (ft-bmp)** | 48.64 | **Casing Diameter (in)** | 2 | **Well Casing Material** | PVC |
| **Static Water Level (ft-bmp)** | 21.02 | **Total Depth (ft-bmp)** | 58.94 | **Water Column(ft)** | 37.92 | **Gallons in Well** | 6.16 |
| **MP Elevation** | 784.54 | **Pump Intake (ft-bmp)** | 53 | **Purge Method** | Low-Flow | **Sample Method** | Low-Flow |
| **Sample Time** | 12:18 | **Well Volumes Purged** | 0.13 | **Sample ID** | YAT-YGWA-5I | **Sampled by** | Kim Lapszynski |
| **Purge Start** | 11:56 | **Gallons Purged** | 0.79 | **Replicate/ Code No.** | | **Color** | Clear |
| **Purge End** | 12:16 | | | | | | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| 11:56:00 | 00:00 | 150 | 21.02 | 7.07 | 101.15 | 1.70 | 9.71 | 13.30 | 126.40 |
| 12:01:00 | 05:00 | 150 | 21.19 | 5.82 | 86.15 | 0.64 | 6.15 | 15.60 | 101.56 |
| 12:06:00 | 10:00 | 150 | 21.2 | 5.79 | 86.35 | 0.36 | 6.00 | 15.60 | 106.38 |
| 12:11:00 | 15:00 | 150 | 21.2 | 5.78 | 86.21 | 0.29 | 5.99 | 15.60 | 113.77 |
| 12:16:00 | 20:00 | 150 | 21.2 | 5.78 | 86.13 | 0.11 | 6.00 | 15.60 | 115.68 |

| Constituent Sampled | Container | Number | Preservative |
|---|---|---|---|
| Alkalinity | 250 mL Plastic | 1 | None |
| App III/IV Metals, Ca, Na, K, Mg | 250 mL Plastic | 1 | HNO3 |
| Cl, F, SO4 | 250 mL Plastic | 1 | None |
| RAD 226/228 | 1L Plastic | 2 | HNO3 |
| Total Dissolved Solids | 500 mL Plastic | 1 | None |

**Comments:** No 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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

# Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/20/2024 10:47:52 PM +00:00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Project Number** | 30052922 | **Well ID** | YGWA-2I | | | **Date** | 2/20/2024 |
| **Project Location** | AP-2 | | **Weather(°F)** | 57.6 degrees F and Clear. The wind is blowing undefined at 0.0 mph. | | | |
| **Measuring Pt. Description** | Top of Inner Casing | **Screen Setting (ft-bmp)** | 53.45 | **Casing Diameter (in)** | 2 | **Well Casing Material** | PVC |
| **Static Water Level (ft-bmp)** | 46.91 | **Total Depth (ft-bmp)** | 63.75 | **Water Column(ft)** | 16.84 | **Gallons in Well** | 2.74 |
| **MP Elevation** | 866.25 | **Pump Intake (ft-bmp)** | 60 | **Purge Method** | Low-Flow | **Sample Method** | Low-Flow |
| **Sample Time** | 16:02 | **Well Volumes Purged** | 0.46 | **Sample ID** | YAT-YGWA-2I | **Sampled by** | Mark Chest |
| **Purge Start** | 15:03 | **Gallons Purged** | 1.25 | **Replicate/ Code No.** | YAT-UGRD-FB-1 | **Color** | Clear |
| **Purge End** | 15:58 | | | | | | |

| Time | Total Elapsed Minutes | Rate (mL/min) | Depth to Water (ft) | pH (standard units) | Specific Conductivity (µS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature °C | Redox (mV) |
|---|---|---|---|---|---|---|---|---|---|
| 15:03:00 | 00:00 | 100 | 46.91 | 7.40 | 208.85 | 3.38 | 9.06 | 16.50 | 77.13 |
| 15:08:00 | 05:00 | 100 | 48.28 | 7.13 | 220.70 | 8.24 | 2.92 | 17.30 | -66.98 |
| 15:13:00 | 10:00 | 100 | 49.1 | 7.27 | 223.02 | 0.50 | 1.86 | 16.60 | -79.57 |
| 15:18:00 | 15:00 | 100 | 49.35 | 7.29 | 224.22 | 0.02 | 0.81 | 16.60 | -80.74 |
| 15:23:00 | 20:00 | 100 | 50.85 | 7.25 | 222.82 | 0.45 | 0.54 | 16.80 | -72.26 |
| 15:28:00 | 25:00 | 75 | 50.89 | 7.24 | 219.86 | 0.40 | 0.77 | 16.60 | -60.99 |
| 15:33:00 | 30:00 | 75 | 51.03 | 7.22 | 216.78 | 0.02 | 1.17 | 16.40 | -47.79 |
| 15:38:00 | 35:00 | 75 | 51.11 | 7.21 | 214.70 | 0.03 | 1.48 | 16.40 | -39.95 |
| 15:43:00 | 40:00 | 75 | 51.23 | 7.21 | 213.11 | 0.03 | 1.71 | 16.40 | -36.42 |
| 15:48:00 | 45:00 | 75 | 51.29 | 7.22 | 212.04 | 0.02 | 1.84 | 16.50 | -33.55 |
| 15:53:00 | 50:00 | 75 | 51.36 | 7.22 | 211.56 | 0.02 | 1.94 | 16.50 | -33.73 |
| 15:58:00 | 55:00 | 75 | 51.43 | 7.23 | 211.08 | 0.02 | 2.02 | 16.60 | -33.13 |

| Constituent Sampled | Container | Number | Preservative |
|---|---|---|---|
| ALK | 250 mL Plastic | 2 | None |
| Cl, F, SO4 | 250 mL Plastic | 1 | None |
| Metals | 250 mL Plastic | 1 | HNO3 |
| RAD Chem | 1L Plastic | 2 | HNO3 |
| TDS | 500 mL Plastic | 1 | None |

**Comments:** No comment

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: _____

Well Locked at Arrival: _____

# Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/23/2024 3:50:13 PM +00:00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Project Number** | 30143608 | **Well ID** | YGWA-18S | | | **Date** | 2/23/2024 |
| **Project Location** | AMA AP-3, A, B and B' | | **Weather(°F)** | 54.7 degrees F and Partly Cloudy. The wind is blowing NW at 8.1 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)** | 22 | **Total Depth (ft-bmp)** | 39.97 | **Water Column(ft)** | 17.97 | **Gallons in Well** | 2.92 |
| **MP Elevation** | 790.57 | **Pump Intake (ft-bmp)** | 35 | **Purge Method** | Low-Flow | **Sample Method** | Grab |
| **Sample Time** | 09:25 | **Well Volumes Purged** | 0.27 | **Sample ID** | YGWA-18S | **Sampled by** | David Prouty |
| **Purge Start** | 08:49 | **Gallons Purged** | 0.79 | **Replicate/ Code No.** | YAT-UGRD-FD-2 | **Color** | Clear |
| **Purge End** | 09:19 | | | | | | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| 8:49:00 | 00:00 | 100 | 22.45 | 5.68 | 70.60 | 1.00 | 8.45 | 13.10 | 220.55 |
| 8:54:00 | 05:00 | 100 | 22.48 | 5.15 | 55.36 | 0.55 | 5.29 | 15.00 | 235.69 |
| 8:59:00 | 10:00 | 100 | 22.48 | 5.23 | 53.89 | 2.45 | 4.50 | 15.20 | 237.30 |
| 9:04:00 | 15:00 | 100 | 22.48 | 5.26 | 53.14 | 0.27 | 4.53 | 15.40 | 239.36 |
| 9:09:00 | 20:00 | 100 | 22.48 | 5.28 | 52.97 | 0.25 | 4.27 | 15.50 | 245.11 |
| 9:14:00 | 25:00 | 100 | 22.48 | 5.28 | 52.94 | 0.92 | 4.09 | 15.50 | 253.17 |
| 9:19:00 | 30:00 | 100 | 22.48 | 5.30 | 52.71 | 0.21 | 4.08 | 15.30 | 256.49 |

| Constituent Sampled | Container | Number | Preservative |
|---|---|---|---|
| Alkalinity | 250 mL Plastic | 2 | None |
| FlChlorideSulfate | 250 mL Plastic | 2 | None |
| Metals | 250 mL Plastic | 2 | HNO3 |
| RAD Chem | 1L Plastic | 4 | HNO3 |
| TDS | 500 mL Plastic | 2 | None |

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

# Groundwater Sampling Form

Updated : 2/23/2024 4:58:48 PM +00:00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Project Number** | 30143608 | **Well ID** | YGWA-14S | | | **Date** | 2/23/2024 |
| **Project Location** | AP-2 | | **Weather(°F)** | 58.8 degrees F and Mostly Cloudy. The wind is blowing NW at 5.8 mph. | | | |
| **Measuring Pt. Description** | Top of Inner Casing | **Screen Setting (ft-bmp)** | 24.66 | **Casing Diameter (in)** | 2 | **Well Casing Material** | PVC |
| **Static Water Level (ft-bmp)** | 18.2 | **Total Depth (ft-bmp)** | 34.96 | **Water Column(ft)** | 16.76 | **Gallons in Well** | 2.72 |
| **MP Elevation** | 748.76 | **Pump Intake (ft-bmp)** | 30 | **Purge Method** | Low-Flow | **Sample Method** | Grab |
| **Sample Time** | 11:00 | **Well Volumes Purged** | 0.19 | **Sample ID** | YAT-YGWA-14S | **Sampled by** | David Prouty |
| **Purge Start** | 10:34 | **Gallons Purged** | 0.53 | **Replicate/ Code No.** | YAT-UGRD-FD-1 | **Color** | Clear |
| **Purge End** | 10:54 | | | | | | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| 10:34:00 | 00:00 | 100 | 18.4 | 5.40 | 66.50 | 0.14 | 5.68 | 17.30 | 243.48 |
| 10:39:00 | 05:00 | 100 | 18.4 | 5.39 | 66.58 | 1.14 | 5.55 | 17.10 | 257.72 |
| 10:44:00 | 10:00 | 100 | 18.4 | 5.39 | 66.52 | 0.36 | 5.51 | 17.10 | 264.49 |
| 10:49:00 | 15:00 | 100 | 18.4 | 5.38 | 66.54 | 0.17 | 5.48 | 17.10 | 269.37 |
| 10:54:00 | 20:00 | 100 | 18.4 | 5.39 | 66.73 | 0.19 | 5.39 | 17.20 | 270.73 |

| Constituent Sampled | Container | Number | Preservative |
|---|---|---|---|
| Alkalinity | 250 mL Plastic | 2 | None |
| FlChlorideSulfate | 250 mL Plastic | 2 | None |
| Metals | 250 mL Plastic | 2 | HNO3 |
| RAD Chem | 1L Plastic | 4 | HNO3 |
| TDS | 500 mL Plastic | 2 | None |

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AP-1 |
| **Permit Number:** | |
| **Well ID:** | YGWA-47 |
| **Person Gauging:** | Jake Swanson |
| **Date:** | 2/19/2024 |
| **Time:** | 09:16:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☑ | ☐ | ☐ |
| | 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: | | | | |
| 8 | Date by when corrective actions are needed: | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | Gypsum Landfill |
| **Permit Number:** | |
| **Well ID:** | GWA-2 |
| **Person Gauging:** | Jake Swanson |
| **Date:** | 2/19/2024 |
| **Time:** | 09:57:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☐ | ☑ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☑ | ☐ | ☐ |
| | 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: | | | | |
| | ants in well | | | | |
| 8 | Date by when corrective actions are needed: | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AMA AP-3, A, B and B' |
| **Permit Number:** | |
| **Well ID:** | YGWA-18I |
| **Person Gauging:** | Jessica Ware |
| **Date:** | 2/19/2024 |
| **Time:** | 11:19:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☑ | ☐ | ☐ |
| | 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: | | | | |
| | | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AMA AP-3, A, B and B' |
| **Permit Number:** | |
| **Well ID:** | YGWA-18S |
| **Person Gauging:** | Jessica Ware |
| **Date:** | 2/19/2024 |
| **Time:** | 11:22:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☑ | ☐ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☐ | ☑ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☑ | ☐ | ☐ |
| | 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: | | | | |
| | | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AMA AP-3, A, B and B' |
| **Permit Number:** | |
| **Well ID:** | YGWA-17S |
| **Person Gauging:** | Jessica Ware |
| **Date:** | 2/19/2024 |
| **Time:** | 11:27:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☑ | ☐ | ☐ |
| | 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: | | | | |
| | | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AMA R6 CCR Landfill |
| **Permit Number:** | |
| **Well ID:** | YGWA-39 |
| **Person Gauging:** | Jessica Ware |
| **Date:** | 2/19/2024 |
| **Time:** | 11:51:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☑ | ☐ | ☐ |
| | 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: | | | | |
| 8 | Date by when corrective actions are needed: | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AMA R6 CCR Landfill |
| **Permit Number:** | |
| **Well ID:** | YGWA-40 |
| **Person Gauging:** | Jessica Ware |
| **Date:** | 2/19/2024 |
| **Time:** | 12:12:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☑ | ☐ | ☐ |
| | 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: | | | | |
| | | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AP-2 |
| **Permit Number:** | |
| **Well ID:** | YGWA-14S |
| **Person Gauging:** | Jake Swanson |
| **Date:** | 2/19/2024 |
| **Time:** | 12:16:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☑ | ☐ | ☐ |
| | 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: | | | | |
| 8 | Date by when corrective actions are needed: | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AP-2 |
| **Permit Number:** | |
| **Well ID:** | YGWA-30I |
| **Person Gauging:** | Jake Swanson |
| **Date:** | 2/19/2024 |
| **Time:** | 13:29:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☑ | ☐ | ☐ |
| | 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: | | | | |
| 8 | Date by when corrective actions are needed: | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AP-2 |
| **Permit Number:** | |
| **Well ID:** | YGWA-3D |
| **Person Gauging:** | Jessica Ware |
| **Date:** | 2/19/2024 |
| **Time:** | 13:43:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☑ | ☐ | ☐ |
| | 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: | | | | |
| 8 | Date by when corrective actions are needed: | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AP-2 |
| **Permit Number:** | |
| **Well ID:** | YGWA-3I |
| **Person Gauging:** | Jessica Ware |
| **Date:** | 2/19/2024 |
| **Time:** | 13:45:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☑ | ☐ | ☐ |
| | 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: | | | | |
| | | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AP-2 |
| **Permit Number:** | |
| **Well ID:** | YGWA-1I |
| **Person Gauging:** | Jake Swanson |
| **Date:** | 2/19/2024 |
| **Time:** | 13:47:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☑ | ☐ | ☐ |
| | 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: | | | | |
| | | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AP-2 |
| **Permit Number:** | |
| **Well ID:** | YGWA-1D |
| **Person Gauging:** | Jake Swanson |
| **Date:** | 2/19/2024 |
| **Time:** | 13:52:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☑ | ☐ | ☐ |
| | 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: | | | | |
| 8 | Date by when corrective actions are needed: | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AP-2 |
| **Permit Number:** | |
| **Well ID:** | YGWA-2I |
| **Person Gauging:** | Jake Swanson |
| **Date:** | 2/19/2024 |
| **Time:** | 13:56:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☑ | ☐ | ☐ |
| | 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: | | | | |
| | | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AMA AP-3, A, B and B' |
| **Permit Number:** | |
| **Well ID:** | YGWA-20S |
| **Person Gauging:** | Jessica Ware |
| **Date:** | 2/19/2024 |
| **Time:** | 14:04:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☑ | ☐ | ☐ |
| | 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: | | | | |
| 8 | Date by when corrective actions are needed: | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AMA AP-3, A, B and B' |
| **Permit Number:** | |
| **Well ID:** | YGWA-21I |
| **Person Gauging:** | Jessica Ware |
| **Date:** | 2/19/2024 |
| **Time:** | 14:10:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☑ | ☐ | ☐ |
| | 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: | | | | |
| 8 | Date by when corrective actions are needed: | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AMA AP-3, A, B and B' |
| **Permit Number:** | |
| **Well ID:** | YGWA-5D |
| **Person Gauging:** | Jessica Ware |
| **Date:** | 2/19/2024 |
| **Time:** | 14:19:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☑ | ☐ | ☐ |
| | 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: | | | | |
| | | | | | |
| | | | | | |
| 8 | Date by when corrective actions are needed: | | | | |
| | | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AMA AP-3, A, B and B' |
| **Permit Number:** | |
| **Well ID:** | YGWA-5I |
| **Person Gauging:** | Jessica Ware |
| **Date:** | 2/19/2024 |
| **Time:** | 14:20:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☑ | ☐ | ☐ |
| | 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: | | | | |
| 8 | Date by when corrective actions are needed: | | | | |

# Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

| | |
|---|---|
| **Project Location:** | AMA AP-3, A, B and B' |
| **Permit Number:** | |
| **Well ID:** | YGWA-4I |
| **Person Gauging:** | Jessica Ware |
| **Date:** | 2/19/2024 |
| **Time:** | 14:26:00 |

| | | | Yes | No | N/A |
|---|---|---|---|---|---|
| 1 | Location Identification: | | | | |
| | a | Is the well visible and accessible? | ☑ | ☐ | ☐ |
| | b | Is the well properly identified with the correct well ID? | ☑ | ☐ | ☐ |
| | c | Is the well in a high traffic area and does the well require protection from traffic? | ☐ | ☑ | ☐ |
| | d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ☑ | ☐ | ☐ |
| 2 | Protective Casing: | | | | |
| | a | Is the protective casing free from apparent damage and able to be secured? | ☑ | ☐ | ☐ |
| | b | Is the casing free of degradation or deterioration? | ☑ | ☐ | ☐ |
| | c | Does the casing have a functioning weep hole? | ☑ | ☐ | ☐ |
| | d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ☑ | ☐ | ☐ |
| 3 | Surface Pad | | | | |
| | a | Is the well pad in good condition (not cracked or broken)? | ☑ | ☐ | ☐ |
| | b | Is the well pad sloped away from the protective casing? | ☑ | ☐ | ☐ |
| | 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 Casing | | | | |
| | a | Does the cap prevent entry of foreign material into the well? | ☑ | ☐ | ☐ |
| | b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ☑ | ☐ | ☐ |
| | c | Is the well properly vented for equilibration of air pressure? | ☑ | ☐ | ☐ |
| | d | Is the survey point clearly marked on the inner casing? | ☑ | ☐ | ☐ |
| | e | Is the depth of the well consistent with the original well log? | ☑ | ☐ | ☐ |
| | f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ☑ | ☐ | ☐ |
| 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? | ☑ | ☐ | ☐ |
| | 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: | | | | |
| 8 | Date by when corrective actions are needed: | | | | |

# Appendix B

## Well Installation Report (YGWC-29IB)

# GEORGIA POWER COMPANY PLANT YATES - AP-2

## Groundwater Monitoring Well Installation Report (YGWC-29IB)

March 22, 2024

# Georgia Power Company Plant Yates
# AP-2

**Groundwater Monitoring Well Installation Report**
**(YGWC-29IB)**

March 22, 2024


**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
Newnan, Georgia
Coweta County

David Prouty, P.G.
Project Geologist

Geoff Gay, P.E.
Technical Expert, Vice President

# Contents

Professional Engineer Certification ..... iv
1 Introduction ..... 1
2 Drilling and Well Installation ..... 1
2.1 Drilling Method ..... 1
2.2 Screened Intervals ..... 1
2.3 Well Construction Materials ..... 2
2.3.1 Filter Pack ..... 2
2.3.2 Annular Seal ..... 2
2.3.3 Cap and Protective Casing ..... 2
3 Well Development ..... 3
4 Survey ..... 3
5 References ..... 3

# Table

Table 1 Well Construction Data

# Figure

Figure 1 Well Location Map

# Appendices

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

ARCADIS

# Professional Engineer Certification

I certify that I am a qualified groundwater scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and have sufficient training and experience in groundwater hydrology and related fields as demonstrated by state registration and completion of accredited university courses that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01, and 40 CFR Part 258.50(g). I further certify that this report was prepared by me or by a subordinate working under my direction.

3.22.24

J. Geoffrey Gay, P.E.
Technical Expert, Vice President
Georgia Registration No. 27801

Date

# 1 Introduction

Plant Yates (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. 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 downgradient detection groundwater monitoring well YGWC-29IB. YGWC-29IA was abandoned on August 21, 2023 due to construction lowering of the ground surface elevation along the Chattahoochee River dam area. A well abandonment report was submitted to the Georgia Environmental Protection Division (GA EPD) on October 6, 2023 under separate cover (Arcadis 2023).

**Figure 1** depicts the configuration of ash pond AP-2 and the location of the monitoring wells. YGWC-29IB was installed December 11 - 12, 2023. Well construction activities were performed in general accordance with the standards described in the RCRA Technical Enforcement Guidance Document (1986), the Georgia Water Wells Standards Act of 1985, and USEPA Region IV Science and Ecosystem Support Division Design and Installation of Monitoring Wells guidance SESDGUID-101-R2 (USEPA 2018).

# 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 depth of the monitoring well were selected based on the characterization of site-specific hydrogeologic conditions by a qualified professional engineer and geologist. Groundwater monitoring location YGWC-29IB was designed to monitor the upper fractured bedrock transition zone. The screened interval elevations for YGWC-29IB are similar to the former well YGWC-29IA. The installation date, location, elevation, screen interval, and designation for YGWC-29IB is provided in the following sections. Boring and well construction logs are provided in **Appendix B**. **Table 1** provides a summary of the former and new well construction.

## 2.1 Drilling Method

The monitoring well was installed by Betts Drilling, which 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 (**Appendix A**).

The monitoring well installation was performed under the oversight and direction of a Georgia Registered Professional Geologist 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 4-inch sonic core rods with a 6-inch outer-casing sleeve. During the drilling, continuous core samples were logged in the field for lithologic properties.

## 2.2 Screened Intervals

Monitoring well YGWC-29IB was screened in the upper fractured bedrock transition zone. The screened interval elevations for YGWC-29IB are similar to the former well YGWC-29IA.

Monitoring well YGWC-29IB is constructed with 10 feet of U-Pack® well screen placed at the interval 28 to 38 feet below ground surface (bgs) with a flush-threaded polyvinyl chloride (PVC) end cap.

## 2.3 Well Construction Materials

The monitoring 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 is constructed of 2-inch diameter Schedule 40 PVC casing affixed to a dual-wall slotted 10-foot U-Pack® PVC screen. The U-Pack® 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. 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 & Silica Co. filter pack sand size GP #2 by hand pouring while tagging depth. This size sand is an approximately 7-35 sieve range, well-rounded quartz (silica) sand. Filter pack material was placed within the void space of the U-Pack® well screen and the annular space outside of the well screen extended approximately 2 feet above the top of the well screen. The depth to the top of filter pack was measured and recorded in the well construction logs provided in **Appendix B.**

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 2 feet of hydrated bentonite 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 for a minimum of 2 hours using potable water and allowed to cure before adding 3/8” bentonite chips and grouting the well.

Following hydration of the bentonite, the remaining annular space was filled to approximately 20 feet bgs with 3/8” Baroid HOLEPLUG® bentonite chips and tremie-grouted to surface with a 30 percent solids bentonite grout (AQUAGARD®). The monitoring well surface completion consists of a locked, aluminum protective casing, a four-foot by four-foot by four-inch concrete pad, and four surface protection bollards.

### 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

Monitoring well YGWC-29IB was developed on January 16, 2024 using a submersible Whale® Super Purger pump. The well was surged continuously across the entire well screen in with the Whale® pump from top to bottom and over-pumped to remove fines resulting from the well installation activities. Turbidity, pH, temperature, and conductivity measurements ensured that the well was fully developed. Final turbidity measurements following development were less than 5 nephelometric turbidity units (NTU). The well development form is included in **Appendix B**.

# 4 Survey

The monitoring well locations and top of casing (TOC) elevations were surveyed by Arcadis on January 29, 2024 using a Leica GS16 Global Positioning System (GPS). 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

Arcadis 2023. Plant Yates, Ash Pond 2 – Well Abandonment Report. Prepared for Georgia Environmental Protection Division. October.

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

United States Environmental Protection Agency (USEPA), Science and Ecosystem Support Division (SESD). Design and Installation of Monitoring Wells SESDGUID-101-R2, January 16, 2018.

# Table

**Table 1 - Well Construction Data**
**Georgia Power Company**
**Plant Yates - AP-2**
**Newnan, Georgia**

| Well ID | Installation Date | Northing | Easting | Ground Elevation | Top of Casing (TOC) Elevation | Top of Screen Elevation | Bottom of Screen Elevation | Total Depth (ft bTOC) |
|---|---|---|---|---|---|---|---|---|
| YGWC-29IB | 12/14/2023 | 1259036.39 | 2070237.53 | 710.0 | 712.88 | 682.00 | 672.00 | 41.18 |
| YGWC-29IA* | 1/10/2023 | 1258981.85 | 2070212.16 | 709.0 | 711.80 | 687.40 | 677.40 | 35.30 |

**Notes:**
bTOC: below Top of Casing
* Well abandoned August 21, 2023
Elevation in U.S. Survey Feet (NAVD88)
Northing and Easting Georgia State Plane West, NAD83

# Figures

84°54'55"W 84°54'50"W 84°54'45"W 84°54'40"W 84°54'35"W 84°54'30"W 84°54'25"W 84°54'20"W 84°54'15"W 84°54'10"W 84°54'5"W 84°54'0"W 84°53'55"W 84°53'50"W 84°53'45"W 84°53'40"W 84°53'35"W 84°53'30"W 84°53'25"W 84°53'20"W 84°53'15"W 84°53'10"W 84°53'5"W 84°53'0"W 84°52'55"W 84°52'50"W

33°28'5"N
33°28'0"N
33°27'55"N
33°27'50"N
33°27'45"N
33°27'40"N
33°27'35"N
33°27'30"N
33°27'25"N
33°27'20"N
33°27'15"N
33°27'10"N
33°27'5"N
33°27'0"N
33°26'55"N
33°26'50"N
33°26'45"N

YGWA-47
FORMER ASH POND 1
FORMER GYPSUM STACK LANDFILL
GWA-2
YGWC-29IB
YGWC-29IA
YGWC-26S
YGWC-26I
YGWC-27I
YGWC-27S
YGWC-28I
YGWC-28S
YGWC-29IB
YGWC-29IA
ASH POND 2
PZ-25I
PZ-25S
YGWA-30I
PZ-31S
PZ-13S
PZ-13I
PZ-14I
YGWA-14S
R6 ASH DISPOSAL AREA
ASH MANAGEMENT AREA
YGWA-17S
YGWA-18S
YGWA-18I
PZ-01S
YGWA-1I
YGWA-1D
PZ-03S
YGWA-3I
YGWA-3D
YGWA-2I
YGWA-40
YGWA-39
YGWA-21I
YGWA-20S
YGWA-4I
YGWA-5I
YGWA-5D

## LEGEND

- SAPROLITE DETECTION MONITORING WELL LOCATION
- TRANSITION DETECTION MONITORING WELL LOCATION
- BEDROCK DETECTION MONITORING WELL LOCATION
- SAPROLITE ASSESSMENT WELL/ PIEZOMETER
- TRANSITION ASSESSMENT WELL/ PIEZOMETER
- ABANDONED DETECTION MONITORING WELL LOCATION
- PERMITTED UNIT BOUNDARY

**NOTES:**
1. YGWC-29IA WAS ABANDONED ON AUGUST 21, 2023. YGWC-29IB WAS INSTALLED ON 12/12/2023 AND SURVEYED ON 1/29/2024.
2. AERIAL IMAGE SOURCES: JULY 17, 2023 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.

0 437.5 875 1,750
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES AP-2
NEWNAN, GA
**WELL INSTALLATION REPORT**

**WELL LOCATION MAP**

ARCADIS

FIGURE
**1**

# Appendix A

## Well Driller Performance Bond

GA Water Well Contractor License # 467

Bond Number: 106717740

## Performance Bond For Water Well Contractors

Name of Water Well Contractor TONY BETTS d/b/a - DBA BETTS ENVIRONMENTAL RECOVERY, AND BLAKE CABIT, MALCOM SANDERS, /

Know All Men By These Presents

That we **TONY BETTS** and DBA BETTS ENVIRONMENTAL RECOVERY, AND BLAKE CABIT, MALCOM SANDERS, AND RYAN MCCORMACK any and all employees, officers and partners (collectively hereinafter, **Principal**), and we **Travelers Casualty and Surety Company of America**, duly organized under the laws of the State of **CONNECTICUT** (hereinafter, **Surety**), are held and firmly bound unto the Director of the Environmental Protection Division, Department of Natural Resources, State of Georgia (**Director**) and his or her successor or successors in office, as **Obligee**, in the full sum of **THIRTY THOUSAND DOLLARS ($30,000.00)** for the payment of which will and truly to be made, the Principal and Surety bind ourselves, our heirs, administrators, successors and assigns, jointly and severally, by these presents.

WHEREAS, the Water Well Standards Act of 1985 (O.C.G.A. §§ 12-5-120 *et seq.*) (the Act) requires that a Water Well Contractor, as that term is defined by the Act, have a performance bond with the Director to ensure compliance with the Act; and WHEREAS the above bound Principal is subject to the terms and provisions of said Act.

NOW, THEREFORE, the conditions of this obligation are such that if the above bound Principal shall fully and faithfully perform the duties and in all things comply with the procedures and standards set forth in the Act as now and hereafter amended, and the rules and regulations promulgated pursuant thereto, including but not limited to the correction of any violation of such procedures and standards upon discovery, irrespective of whether such discovery is made before completion of any well subject to this bond, then this obligation shall be void; otherwise it shall remain in full force and effect.

And Surety, for value received, agrees that no amendment to existing laws, rules or regulations, or adoption of new laws, rules or regulations shall in anyway discharge its obligation on this bond, and does hereby waive notice of any such amendment, adoption or modification.

This bond shall be effective from the **30** day of **June**, **2023** and shall continue in effect until June 30, 2025, unless sooner terminated by mutual agreement of Principal and Surety, provided that no such termination may be made unless sixty (60) days' prior written notice is made to the Director. In the event of such termination, the rights of the Director as Obligee and beneficiaries under this bond which arose prior to such termination shall continue.

IN WITNESS THEREOF the Principal and Surety have caused these present to be duly signed and sealed, this the **01** day of **April**, **2023**.

**Principal**
**TONY BETTS**

Print name: **Tony Betts**
Title: **CEO**

**Surety**
**Travelers Casualty and Surety Company of America**

Print name: **Russell E. Vance**
Title: **Attorney-in-Fact**

Revised 03.17.2021

TRAVELERS

**Travelers Casualty and Surety Company of America**
**Travelers Casualty and Surety Company**
**St. Paul Fire and Marine Insurance Company**
**Farmington Casualty Company**

## POWER OF ATTORNEY

**KNOW ALL MEN BY THESE PRESENTS**: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, St. Paul Fire and Marine Insurance Company, and Farmington Casualty Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Russell E. Vance**, of **Hartford, CT**, their true and lawful Attorney(s)-in-Fact, to sign, execute, seal and acknowledge the following bond:

**Surety Bond No.: 106717740** **Principal: TONY BETTS d/b/a - DBA BETTS ENVIRONMENTAL RECOVERY, AND BLAKE CABIT, MALCOM SANDERS, AND RYAN MCCORMACK**

**IN WITNESS WHEREOF**, the Companies have caused this instrument to be signed and their corporate seals to be hereto affixed, this **21st** day of **April, 2021.**

State of Connecticut

By: _____
Robert L. Raney, Senior Vice President

City of Hartford ss.

On this the **21st** day of **April, 2021**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

**IN WITNESS WHEREOF**, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June, 2026**

_____
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

**RESOLVED**, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

**FURTHER RESOLVED**, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

**FURTHER RESOLVED**, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

**FURTHER RESOLVED**, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this 01 day of April, 2023.

_____
Kevin E. Hughes, Assistant Secretary

***To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.***
***Please refer to the above-named Attorney(s)-in-Fact and the details of the bond to which this Power of Attorney is attached.***

# Appendix B

## Well Construction and Development Logs

# RECORD OF BOREHOLE YGWC-29IB

SHEET 1 of 1

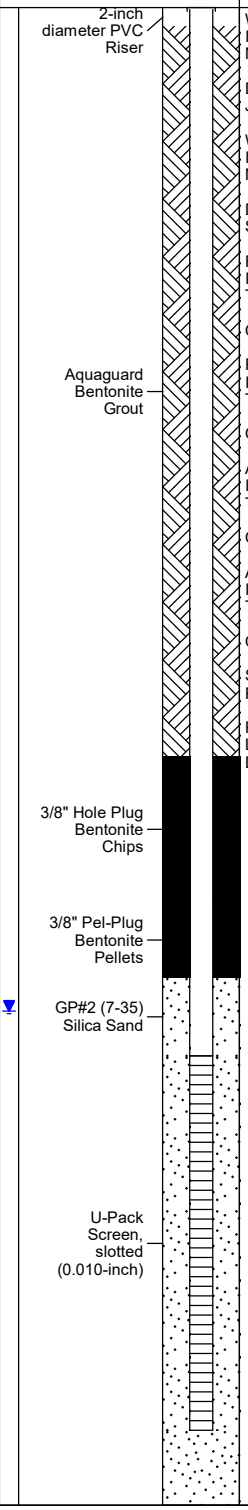
PROJECT: Georgia Power Plant Yates
PROJECT NUMBER: 30143622
DRILLED DEPTH: 40.0 ft
LOCATION: Newnan, GA

DRILL RIG: TerraSonic 150CC
DATE STARTED: 12/11/2023
DATE COMPLETED: 12/12/2023

NORTHING: 1259036.39
EASTING: 2070237.53
GS ELEVATION: 710
TOC ELEVATION: 712.88

DEPTH W.L.: 26.81
ELEVATION W.L.: 686.07
DATE W.L.: 1/16/2024
TIME W.L.: 12:45:00 PM

| DEPTH (ft) | DESCRIPTION | USCS | GRAPHIC LOG | DEPTH (ft) | SAMPLE NO. | PHOTO | REC |
|---|---|---|---|---|---|---|---|
| | 0.0 - 17.4<br>(SM) Silty SAND; 5YR 5/6; loose; fine grained; poorly sorted; subangular; slightly moist; FILL. | | | 0.0 | | | |
| 5 | Grading to 10YR 6/4. | SM | | | 1 | | 7.5<br>10.0 |
| 10 | Grading to 10YR 5/4.<br>Grading to 2.5YR 4/1.<br>Grading to 2.5YR 5/4. | | | | | | |
| 15 | Grading to 2.5YR 5/2.<br>Grading to 2.5YR 5/3. | | | | 2 | | 10.0<br>10.0 |
| | 17.4 - 28.7<br>(ML) Sandy SILT; 7.5YR 4/4; soft; non-plastic; moist. | | | 17.4 | | | |
| 20 | Grading to 7.5YR 5/6 | ML | | | | | |
| 25 | | | | | 3 | | 10.0<br>10.0 |
| | 28.7 - 40.0<br>Biotite Schist; interbedded with Biotite Gneiss; hard; medium grained; finely foliated; GLEY1 2.5/N. | | | 28.7 | | | |
| 30 | Very slightly weathered with trace iron staining.<br>Grading to GLEY1 3/N | | | | | | |
| 35 | Grading to GLEY2 8/10B | BED-ROCK | | | 4 | | 6.9<br>10.0 |
| 40 | Boring terminated at 40 feet bgs. | | | | | | |




YGWC-29IB MONITORING WELL DIAGRAM and NOTES

WELL CONSTRUCTION DETAILS

WELL CASING
Interval: -2.88'-28'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 28'-38'
Material: U-Pack Schedule 40 PVC
Diameter: 2"
Slot Size: 0.010"

FILTER PACK
Interval: 25.9'-40'
Type: Southern Products and Silica GP#2
Quantity: 2.5 cf

FILTER PACK SEAL
Interval: 23.9'-25.9'
Type: 3/8" Pel-Plug Bentonite Pellets
Quantity: 0.6 cf

ANNULUS SEAL
Interval: 20'-23.9'
Type: 3/8" Hole Plug Bentonite Chips
Quantity: 1 cf

ANNULUS SEAL
Interval: 0.5'-20'
Type: Aquaguard Bentonite Grout
Quantity: 3.9 cf

SURFACE COMPLETION
Protection: 4"x4" Aluminum
Pad: 4'x4' Concrete
Lock: Yes
Date: 12/17/2023

DRILLING COMPANY: Betts Drilling
DRILLER: Kam Johnson

CHECKED BY: David Prouty
DATE: 2/12/2024

ARCADIS

ARCADIS Design & Consultancy for natural and built assets

# WELL DEVELOPMENT LOG

Project No. 30113037
Project Name GPC Plant Yates
Project Location Newnan, GA

Well ID YGWC-29IB
Date 1/16/2024
Start Time 1300
End Time 1520

**Evacuation Data:**

Depth to bottom of well (ft bls) 41.5' BTOC
Depth to water from top of casing 26.81
Water Column (ft) 14.69
Gallons in Well 2.39
Casing stick-up above concrete (feet) 2.88
Screened Interval (ft bls) 28-~~29~~38
Casing Volume

| Time | Flow Rate (gpm) | Gallons Removed | Water Level | pH | Specific Cond. (mS/cm) | Temperature (°C) | Turbidity (NTU) | Appearance/Notes |
|---|---|---|---|---|---|---|---|---|
| 1300 | | | | | | | | Surge |
| 1400 | 0.8 | 25 | | | | | 90.5 | |
| 1406 | 0.8 | 30 | | | | | 24.3 | |
| 1413 | 0.8 | 35 | 36.8 | | | | 7.72 | |
| | | | | | | | | Surge |
| 1424 | | | | | | | | Purge |
| 1430 | 0.8 | 40 | | | | | 78.3 | |
| 1436 | 0.8 | 45 | 35.2 | | | | 15.9 | |
| | | | | | | | | Surge |
| 1445 | 0.8 | | | | | | | Purge |
| 1451 | 0.8 | 50 | 35.7 | | | | 50.1 | |
| 1457 | 0.8 | 55 | 35.9 | | | | 5.51 | |
| | | | | | | | | Slowed pump |
| | | | | | | | | attached YSI |
| 1505 | 0.1 | 55.5 | 28.6 | 6.30 | 336.6 | 16.9 | 0.76 | |
| 1510 | 0.1 | 56.0 | 27.4 | 6.32 | 333.6 | 17.1 | 1.92 | |
| 1515 | 0.1 | 56.5 | 27.4 | 6.30 | 329.7 | 17.0 | 0.88 | |
| 1520 | 0.1 | 57.0 | 27.3 | 6.30 | 327.8 | 16.9 | 0.82 | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

ARCADIS Design & Consultancy for natural and built assets

# INSTRUMENT CALIBRATION LOG

**Project Name:** GPC Plant Yates **Personnel:** David Prouty

**Project Number:** 30113037

Date / Time : 1/16/2024 1310
Weather : Clear 32°
Instruments: YSI 556 04378Z

| CALIBRANT | Pre-Calibration | Value Entered | Post-Calibration |
|---|---|---|---|
| pH 7.0 | 7.15 | 7.0 | 7.08 |
| pH 4.0 | 4.02 | 4.0 | 4.01 |
| pH 10.0 | 10.05 | 10.0 | 10.01 |
| Sp. Conductivity (us/cm) | 1139 | 1.413 | 1414 |
| ORP (mV) | 281.0 | 240 | 240.0 |
| Dissolved Oxygen (%) | 111.7 | 100% | 100.1 |
| Turbidity (NTU) | 101 | 100 | 100 |
| Turbidity (NTU) | 19.9 | 20 | 20.1 |
| Turbidity (NTU) | 9.98 | 10 | 10.0 |

Notes:
Barometric Pressure = 744.9 mm Hg 12.5°C

Date / Time :
Weather :
Instruments:

| CALIBRANT | Pre-Calibration | Value Entered | Post-Calibration |
|---|---|---|---|
| pH 7.0 | | 7.0 | |
| pH 4.0 | | 4.0 | |
| pH 10.0 | | 10.0 | |
| Sp. Conductivity (us/cm) | | 1.413 | |
| ORP (mV) | | 240 | |
| Dissolved Oxygen (%) | | 100% | |
| Turbidity (NTU) | | | |
| Turbidity (NTU) | | | |
| Turbidity (NTU) | | | |

Notes:
Barometric Pressure = mm Hg

Date / Time : 1/ /2024
Weather :
Instruments:

| CALIBRANT | Pre-Calibration | Value Entered | Post-Calibration |
|---|---|---|---|
| pH 7.0 | | 7.0 | |
| pH 4.0 | | 4.0 | |
| pH 10.0 | | 10.0 | |
| Sp. Conductivity (us/cm) | | 1.413 | |
| ORP (mV) | | 240 | |
| Dissolved Oxygen (%) | | 100% | |
| Turbidity (NTU) | | | |
| Turbidity (NTU) | | | |
| Turbidity (NTU) | | | |

Notes:
Barometric Pressure = mm Hg

Date / Time : 1/ /2024
Weather :
Instruments:

| CALIBRANT | Pre-Calibration | Value Entered | Post-Calibration |
|---|---|---|---|
| pH 7.0 | | 7.0 | |
| pH 4.0 | | 4.0 | |
| pH 10.0 | | 10.0 | |
| Sp. Conductivity (us/cm) | | 1.413 | |
| ORP (mV) | | 240 | |
| Dissolved Oxygen (%) | | 100% | |
| Turbidity (NTU) | | | |
| Turbidity (NTU) | | | |
| Turbidity (NTU) | | | |

Notes:
Barometric Pressure = mm Hg

**Conversions:**
1 inch of Hg = 25.4 mm Hg

# Appendix C

## Well Survey Report

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

Arcadis U.S., Inc.
2839 Paces Ferry Road
Suite 900
Atlanta, GA 30339
United States
Phone: 770 431 8666
Fax: 770 435 2666
www.arcadis.com

Date: February 2, 2024
Subject: Survey of YGWC-29IB, PZ-54D, PZ-55, and PZ-56D

Dear Ms. Hartley,

Attached is a copy of the survey report for YGWC-29IB, PZ-54D, PZ-55, PZ-56D 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.

Mark Lupton, PLS
Survey Department Manager

Email: Mark.Lupton@arcadis.com
Direct Line: 770 384 6578

CC. Geoff Gay, PE

Enclosures:
Well Survey Report

## DESCRIPTION AND SCOPE

Arcadis performed horizontal and vertical field survey locations at YGWC-29IB, PZ-54D, PZ-55, PZ-56D.

The Arcadis field survey team obtained horizontal and vertical locations for the top of the casings (TOC) and surveyed the nails located on the concrete pads around the well/piezometers. The team completed the field survey on these locations on 01/29/2024.

The Arcadis field team utilized a of Leica GS16 Global Positioning System (GPS) 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.

See the attached exhibit detailing the surveyed locations for YGWC-29IB, PZ-54D, PZ-55, and PZ-56D.

## CERTIFICATION

I, Mark Lupton, 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:

Mark Lupton, PLS DATE: February 02, 2024

Mark Lupton, PLS
2839 Paces Ferry Road SE Suite 900
Atlanta, GA 30339
770.431-8666

# EXHIBIT 1

### Plant Yates – AP-2 Monitoring Well and Piezometer Survey

| Monument | Concrete Base Point | NAVD88 Elevation | Georgia State Plane Grid (NAD83), West Zone | | WGS84 Latitude | Longitude |
|---|---|---|---|---|---|---|
| | | | Northing | Easting | | |
| **YGWC-29IB** | Casing | 712.88 | 1259036.39 | 2070237.53 | 33° 27' 32.574" N | 84° 54' 31.800" W |
| | PK Nail | 710.07 | 1259036.07 | 2070238.50 | | |
| | Ground | 710.0 | | | | |

**Notes:**
NAD83(2011) coordinates system on site established by utilizing eGPS VRS & OPUS Solutions

Elevations derived from Arcadis BM#1 (El. 758.24) tied to well YGWC-27i being at El. 713.35'

Elevations & coordinates are U.S. Survey feet

### Plant Yates – AMA Monitoring Well and Piezometer Surveys (Note PZ-54D and PZ-56D are in the same casing)

| Monument | Concrete Base Point | NAVD88 Elevation | Georgia State Plane Grid (NAD83), West Zone | | WGS84 Latitude | Longitude |
|---|---|---|---|---|---|---|
| | | | Northing | Easting | | |
| **PZ-54D** | Casing | 795.56 | 1256904.08 | 2073369.06 | 33° 27' 11.699" N | 84° 53' 54.661" W |
| | PK Nail | 792.50 | 1256904.11 | 2073367.83 | | |
| | Ground | 792.5 | | | | |

**Notes:**
NAD83(2011) coordinates system on site established by utilizing eGPS VRS & OPUS Solutions

Elevations derived from Arcadis BM#1 (El. 758.24) tied to well YGWC-41 being at El. 801.23'

Elevations & coordinates are U.S. Survey feet

| Monument | Concrete Base Point | NAVD88 Elevation | Georgia State Plane Grid (NAD83), West Zone | | WGS84 Latitude | Longitude |
|---|---|---|---|---|---|---|
| | | | Northing | Easting | | |
| **PZ-56D** | Casing | 795.56 | 1256904.08 | 2073369.06 | 33° 27' 11.699" N | 84° 53' 54.661" W |
| | PK Nail | 792.50 | 1256904.11 | 2073367.83 | | |
| | Ground | 792.5 | | | | |

**Notes:**
NAD83(2011) coordinates system on site established by utilizing eGPS VRS & OPUS Solutions

Elevations derived from Arcadis BM#1 (El. 758.24) tied to well YGWC-41 being at El. 801.23'

Elevations & coordinates are U.S. Survey feet

| Monument | Concrete Base Point | NAVD88 Elevation | Georgia State Plane Grid (NAD83), West Zone | | WGS84 Latitude | Longitude |
|---|---|---|---|---|---|---|
| | | | Northing | Easting | | |
| **PZ-55** | Casing | 774.02 | 1257131.73 | 2073193.74 | 33° 27' 13.939" N | 84° 53' 56.749" W |
| | PK Nail | 771.32 | 1257130.72 | 2073193.55 | | |
| | Ground | 771.3 | | | | |

**Notes:**
NAD83(2011) coordinates system on site established by utilizing eGPS VRS & OPUS Solutions

Elevations derived from Arcadis BM#1 (El. 758.24) tied to well YGWC-41 being at El. 801.23'

Elevations & coordinates are U.S. Survey feet

Arcadis U.S., Inc.
2839 Paces Ferry Road, Suite 900
Atlanta
Georgia 30339
Phone: 770 431 8666
Fax: 770 435 2666
www.arcadis.com

# Appendix C

## Analytical Lab and Data Validation Reports (February 2024)

Georgia Power Co. – Plant Yates

# Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92715028 and 92715049

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

Report #53647R
Review Level: Tier II
Project: 30113037.3C

# Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92715028 and 92715049 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

| Sample ID | Lab ID | Matrix | Sample Collection Date | Parent Sample | Analysis | | |
|---|---|---|---|---|---|---|---|
| | | | | | RAD | MET | GEN CHEM |
| YAT-YGWC-27S | 92715028001<br>92715049001 | Water | 2/21/2024 | | X | X | X |
| YAT-YGWC-27I | 92715028002<br>92715049002 | Water | 2/21/2024 | | X | X | X |
| YAT-YGWC-28S | 92715028003<br>92715049003 | Water | 2/21/2024 | | X | X | X |
| YAT-YGWC-28I | 92715028004<br>92715049004 | Water | 2/21/2024 | | X | X | X |
| YAT-AP2-FD-1 | 92715028005<br>92715049005 | Water | 2/21/2024 | YAT-YGWC-28I | X | X | X |
| YAT-AP2-EB-1 | 92715028006<br>92715049006 | Water | 2/21/2024 | | X | X | X |
| YAT-AP2-FB-1 | 92715028007<br>92715049007 | Water | 2/21/2024 | | X | X | X |
| YAT-YGWC-26S | 92715028008<br>92715049008 | Water | 2/22/2024 | | X | X | X |
| YAT-YGWC-26I | 92715028009<br>92715049009 | Water | 2/22/2024 | | X | X | X |
| YAT-YGWC-29IB | 92715028010<br>92715049010 | Water | 2/22/2024 | | X | X | X |

**Notes:**

1. Metals and total dissolved solids (TDS) analysis performed by Pace Analytical Services – Peachtree Corners, Georgia.
2. Alkalinity and anions (chloride, fluoride, and sulfate) analysis performed by Pace Analytical Services – Asheville, North Carolina.
3. Radium analysis performed by Pace Analytical Services – Greensburg, Pennsylvania.

# Analytical Data Package Documentation

The table below evaluates the data package completeness.

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

**Note:**
QA = quality assurance

# Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010D, 6020B, 7470A, 9315, and 9320; Standard Methods (SM) SM2320B and SM2540C; and USEPA Method 300.0. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2), and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

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

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

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

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

# Metals Analyses

## 1. Holding Times

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

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

**Note:**
s.u. = standard units

All samples were analyzed within the specified holding times.

## 2. Blank Contamination

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

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

Boron was detected in the associated equipment blank YAT-AP2 EB-1 and field blank YAT-AP2-FB-1; however, the associated sample results were greater than the BAL. No qualification of the sample results was required.

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

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

### 3.1 MS/MSD Analysis

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

The MS/MSD analysis performed using sample YAT-YGWC-27S 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.

## 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 in association with SW-846 6020B and SW-846 7470A. The MS/MSD recoveries exhibited acceptable RPDs.

Laboratory duplicate or MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 6010D.

# 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 |
|---|---|---|---|---|
| YAT-YGWC-28I / YAT-AP2-FD-1 | Potassium | 5.7 | 5.8 | 1.7% |
| | Sodium | 9.3 | 9.5 | 2.1% |
| | Calcium | 27.8 | 28.4 | 2.1% |
| | Magnesium | 16.2 | 16.6 | 2.4% |
| | Barium | 0.062 | 0.064 | 3.2% |
| | Boron | 1.6 | 1.7 | 6.1% |
| | Cadmium | 0.00050 U | 0.00011 J | AC |
| | Lithium | 0.0056 J | 0.0058 J | |
| | Molybdenum | 0.0013 J | 0.0014 J | |

**Note:**
AC = Acceptable

The differences in the results between the parent sample YAT-YGWC-28I and field duplicate sample YAT-AP2-FD-1 were acceptable.

## 5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

## 6. System Performance and Overall Assessment

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

# Data Validation Checklist for Metals

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

**Notes:**

%R Percent recovery

RPD Relative percent difference

# General Chemistry Analyses

## 1. Holding Times

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

| Method | Matrix | Holding Time | Preservation |
|---|---|---|---|
| Total Dissolved Solids (TDS) by SM2540C | Water | 7 days from collection to analysis | Cool to <6°C |
| Alkalinity by SM2320B | Water | 14 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.

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

| Sample Locations | Analytes | Sample Result | Qualification |
|---|---|---|---|
| YAT-YGWC-27S<br>YAT-YGWC-27I<br>YAT-YGWC-28S<br>YAT-YGWC-28I<br>YAT-AP2-FD-1<br>YAT-YGWC-26S<br>YAT-YGWC-26I<br>YAT-YGWC-29IB | TDS (EB, FB) | Detected sample results >RL and <BAL | “J+” at detected sample concentration |

**Notes:**
EB Equipment blank
FB Field blank
RL Reporting limit

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

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

## 3.1 MS/MSD Analysis

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

The MS/MSD analysis performed on sample locations YAT-YGWC-28S in association with alkalinity analysis and YAT-YGWC-28I in association with alkalinity and anions analysis exhibited recoveries within 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 using samples YAT-YGWC-28S in association with alkalinity analysis and YAT-YGWC-28I in association with alkalinity and anions. The MS/MSD recoveries exhibited acceptable RPDs.

The laboratory duplicate analysis performed on sample location YAT-AP2-FD-1 in association with TDS analysis exhibited an RPD within the control limit.

# 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 |
|---|---|---|---|---|
| YAT-YGWC-28I / YAT-AP2-FD-1 | Total Dissolved Solids | 213 | 214 | 0.5% |
| | Alkalinity, Bicarbonate | 152 | 154 | 1.3% |
| | Alkalinity, Total | 152 | 154 | 1.3% |
| | Chloride | 10.4 | 10.5 | 1.0% |
| | Fluoride | 0.096 J | 0.099 J | AC |
| | Sulfate | 8.5 | 8.3 | 2.4% |

**Note:**
AC = Acceptable

The differences in the results between the parent sample YAT-YGWC-28I and field duplicate sample YAT-AP2-FD-1 were acceptable.

## 5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

## 6. System Performance and Overall Assessment

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

# Data Validation Checklist for General Chemistry

| General Chemistry: SM2540C, SM2320B, USEPA 300.0 | Reported | | Performance Acceptable | | Not Required |
|---|---|---|---|---|---|
| | No | Yes | No | Yes | |
| **Miscellaneous Instrumentation** | | | | | |
| **Tier II Validation** | | | | | |
| Holding Times | | X | | X | |
| Reporting limits (units) | | X | | X | |
| Blanks | | | | | |
| A. Method Blanks | | X | | X | |
| B. Equipment/Field Blanks | | X | X | | |
| Laboratory Control Sample (LCS) %R | | X | | X | |
| Matrix Spike (MS) %R | | X | | X | |
| Matrix Spike Duplicate (MSD) %R | | X | | X | |
| MS/MSD Precision (RPD) | | X | | X | |
| Laboratory Duplicate (RPD) | | X | | X | |
| Field Duplicate (RPD) | | X | | X | |

**Notes:**

%R Percent recovery

RPD Relative percent difference

# Radiological Analyses

## 1. Holding Times

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

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

**Note:**
s.u. = standard units

All samples were analyzed within the specified holding times.

## 2. Blank Contamination

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

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

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

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

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

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

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* |

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

Radium-226 and Radium-228 were detected in the method blanks, however, the activity was measured as less than the uncertainty and MDC. Hence, the blank results are considered non-detect and no qualification of the results was required.

# 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.

## 3.2 Laboratory Duplicate Analysis

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

The numerical performance indicator for laboratory duplicates is calculated by:

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

Where:

$x_1$, $x_2$ = two measured activity concentrations.

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

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

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

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

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

| Sample ID/Duplicate ID | Analyte | Sample Result | Duplicate Result | RPD |
|---|---|---|---|---|
| YAT-YGWC-28I / YTC-AP2-FD-1 | Radium-226 | 0.103 U ± 0.131 | 0.137 U ± 0.163 | AC |
| | Radium-228 | 0.344 U ± 0.366 | 0.928 U ± 0.561 | |
| | Total Radium | 0.447 U ± 0.497 | 1.07 U ± 0.724 | |

**Note:**
AC = Acceptable

The differences in the results between the parent sample YTC-YGWC-28I and field duplicate sample YTC-AP2-FD-1 were acceptable.

## 5. Tracer or Carrier

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

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

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

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

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

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

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

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

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

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

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

## 7. Isotope Identification

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

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

Based on the above criteria sample results were qualified as “U” by the laboratory as applicable.

# 8. System Performance and Overall Assessment

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

# Data Validation Checklist for Radiologicals

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

**Notes:**
%R Percent recovery
RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE:

DATE: April 18, 2024

PEER REVIEW: Dennis Capria

DATE: April 29, 2024

## Chain of Custody / Data Qualifier Summary Table

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for Instructions

927|5028

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-202451 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): YAT AP-2 | | Purchase Order # (if applicable): | GPCR2474-0002 |
| | | Quote #: | |

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers Plastic | Number & Type of Containers Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | Sample Comment | Preservation non-conformance identified for sample. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-YGWC-26S | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWC-26I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWC-27S | WG | G | 2/21/24 | 0940 | | | | 6 | | X | X | X | X | X | See Remarks 001 | |
| YAT-YGWC-27I | WG | G | 2/21/24 | 1105 | | | | 6 | | X | X | X | X | X | See Remarks 002 | |
| YAT-YGWC-28S | WG | G | 2/21/24 | 1445 | | | | 6 | | X | X | X | X | X | See Remarks 003 | |
| YAT-YGWC-28I | WG | G | 2/21/24 | 1635 | | | | 6 | | X | X | X | X | X | See Remarks 004 | |
| YAT-AP2-FD-1 | WG | G | 2/21/24 | — | | | | 6 | | X | X | X | X | X | See Remarks 005 | |
| YAT-AP2-EB-1 | WG | G | 2/21/24 | 1510 | | | | 6 | | X | X | X | X | X | See Remarks 006 | |
| YAT-AP2-FB-1 | WG | G | 2/21/24 | 1500 | | | | 6 | | X | X | X | X | X | See Remarks 007 | |
| YAT-YGWC-29IB | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) -
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Tracking Number: |
|---|---|---|---|---|
| | 2/22/24 0810 | Arcadis | 2/22/24 0810 | |
| Arcadis | 2/22/24 0903 | Pace | 2/22/24 0903 | Delivered by: [ ] In-Person [ ] Courier |
| Pace | 2/22/24 1545 | | 2/22 1545 | [ ] FedEX [ ] UPS [ ] Other |
| | | | | Page: 1 of 1 |

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

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Scan QR Code for instructions

92715626

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-202451 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): YAT AP-2 | | Purchase Order # (if applicable): | GPC82474-0002 |
| | | Quote #: | |

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers Plastic | Number & Type of Containers Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | Sample Comment | Preservation non-conformance identified for sample |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-YGWC-26S | WG | G | 2/22/24 | 1015 | | | | 6 | | X | X | X | X | X | See Remarks 008 | |
| YAT-YGWC-26I | WG | G | 2/22/24 | 1200 | | | | 6 | | X | X | X | X | X | See Remarks 009 | |
| YAT-YGWC-27S | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWC-27I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWC-28S | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWC-28I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-AP2-FD-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-AP2-EB-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-AP2-FB-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWC-29IB | WG | G | 2/22/24 | 1410 | | | | 6 | | X | X | X | X | X | See Remarks 010 | |

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) -
Signature: (Arcadis) - David Prouty

Additional Instructions from Pace®:

| # Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C) |
|---|---|---|---|---|

| | Relinquished by/Company: (Signature) | Date/Time | Received by/Company: (Signature) | Date/Time |
|---|---|---|---|---|
| 1 | | 2/23/24 0800 | ARCADIS | 2/23/24 0800 |
| 2 | ARCADIS | 2/23/24 0918 | Ryan Williams / Pace | 2/23/24 0918 |
| 3 | Ryan Williams / Pace | 2/24/24 1307 | | 2/23/24 1307 |
| 4 | | | | |

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: 1 of 1

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| SDG | Sample ID | Method | Analyte | Result | Units | Validation Qualifier | Reason for Validation Qualifier |
|---|---|---|---|---|---|---|---|
| 92715028 | YAT-YGWC-27S | SM2540C | Total Dissolved Solids | 149 | mg/L | J+ | Blank contamination |
| | YAT-YGWC-27I | SM2540C | Total Dissolved Solids | 194 | mg/L | J+ | Blank contamination |
| | YAT-YGWC-28S | SM2540C | Total Dissolved Solids | 235 | mg/L | J+ | Blank contamination |
| | YAT-YGWC-28I | SM2540C | Total Dissolved Solids | 213 | mg/L | J+ | Blank contamination |
| | YAT-AP2-FD-1 | SM2540C | Total Dissolved Solids | 214 | mg/L | J+ | Blank contamination |
| | YAT-YGWC-26S | SM2540C | Total Dissolved Solids | 188 | mg/L | J+ | Blank contamination |
| | YAT-YGWC-26I | SM2540C | Total Dissolved Solids | 215 | mg/L | J+ | Blank contamination |
| | YAT-YGWC-29IB | SM2540C | Total Dissolved Solids | 146 | mg/L | J+ | Blank contamination |
| 92715049 | No qualifiers assigned | | | | | | |

**Abbreviations:**

mg/L = milligrams per liter

**Qualifiers:**

J+ = estimated result with possible high bias

**Pace Analytical Services, LLC**
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 07, 2024

Lauren Hartley
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT AP-2
Pace Project No.: 92715028

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between February 22, 2024 and February 23, 2024. 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 - Peachtree Corners, GA

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis



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9800 Kincey Ave.  Suite 100
Huntersville, NC 28078
(704)875-9092

# CERTIFICATIONS

Project: YAT AP-2
Pace Project No.: 92715028

**Pace Analytical Services Asheville**
2225 Riverside Drive, Asheville, NC  28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

**Pace Analytical Services Peachtree Corners**
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204



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## SAMPLE SUMMARY

Project: YAT AP-2
Pace Project No.: 92715028

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **92715028001** | **YAT-YGWC-27S** | Water | 02/21/24 09:40 | 02/22/24 09:03 |
| **92715028002** | **YAT-YGWC-27I** | Water | 02/21/24 11:05 | 02/22/24 09:03 |
| **92715028003** | **YAT-YGWC-28S** | Water | 02/21/24 14:45 | 02/22/24 09:03 |
| **92715028004** | **YAT-YGWC-28I** | Water | 02/21/24 16:35 | 02/22/24 09:03 |
| **92715028005** | **YAT-AP2-FD-1** | Water | 02/21/24 00:00 | 02/22/24 09:03 |
| **92715028006** | **YAT-AP2-EB-1** | Water | 02/21/24 15:10 | 02/22/24 09:03 |
| **92715028007** | **YAT-AP2-FB-1** | Water | 02/21/24 15:00 | 02/22/24 09:03 |
| **92715028008** | **YAT-YGWC-26S** | Water | 02/22/24 10:15 | 02/23/24 09:18 |
| **92715028009** | **YAT-YGWC-26I** | Water | 02/22/24 12:00 | 02/23/24 09:18 |
| **92715028010** | **YAT-YGWC-29IB** | Water | 02/22/24 14:10 | 02/23/24 09:18 |



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Huntersville, NC 28078
(704)875-9092

## SAMPLE ANALYTE COUNT

Project: YAT AP-2
Pace Project No.: 92715028

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---|---|---|---|---|
| **92715028001** | **YAT-YGWC-27S** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| **92715028002** | **YAT-YGWC-27I** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| **92715028003** | **YAT-YGWC-28S** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| **92715028004** | **YAT-YGWC-28I** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| **92715028005** | **YAT-AP2-FD-1** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| **92715028006** | **YAT-AP2-EB-1** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| **92715028007** | **YAT-AP2-FB-1** | EPA 6010D | DRB | 4 |

## REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

## SAMPLE ANALYTE COUNT

Project: YAT AP-2
Pace Project No.: 92715028

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---|---|---|---|---|
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| **92715028008** | **YAT-YGWC-26S** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 2540C-2015 | JMH1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| **92715028009** | **YAT-YGWC-26I** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 2540C-2015 | JMH1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| **92715028010** | **YAT-YGWC-29IB** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 2540C-2015 | JMH1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |

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

## REPORT OF LABORATORY ANALYSIS

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**Pace Analytical Services, LLC**
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

## SUMMARY OF DETECTION

Project: YAT AP-2
Pace Project No.: 92715028

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **92715028001** | **YAT-YGWC-27S** | | | | | |
| EPA 6010D | Potassium | 1.5 | mg/L | 0.50 | 03/04/24 10:43 | |
| EPA 6010D | Sodium | 17.0 | mg/L | 1.0 | 03/04/24 10:43 | |
| EPA 6010D | Calcium | 20.4 | mg/L | 1.0 | 03/04/24 10:43 | |
| EPA 6010D | Magnesium | 7.6 | mg/L | 0.050 | 03/04/24 10:43 | |
| EPA 6020B | Barium | 0.047 | mg/L | 0.0050 | 03/04/24 16:35 | |
| EPA 6020B | Boron | 0.91 | mg/L | 0.040 | 03/04/24 16:35 | |
| EPA 6020B | Cobalt | 0.0016J | mg/L | 0.0050 | 03/04/24 16:35 | |
| SM 2540C-2015 | Total Dissolved Solids | 149 | mg/L | 25.0 | 02/28/24 12:01 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 95.3 | mg/L | 5.0 | 02/29/24 15:59 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 95.3 | mg/L | 5.0 | 02/29/24 15:59 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 12.6 | mg/L | 1.0 | 02/24/24 17:07 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.11 | mg/L | 0.10 | 02/24/24 17:07 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 13.0 | mg/L | 1.0 | 02/24/24 17:07 | |
| **92715028002** | **YAT-YGWC-27I** | | | | | |
| EPA 6010D | Potassium | 4.4 | mg/L | 0.50 | 03/04/24 11:54 | |
| EPA 6010D | Sodium | 11.6 | mg/L | 1.0 | 03/04/24 11:54 | |
| EPA 6010D | Calcium | 27.7 | mg/L | 1.0 | 03/04/24 11:54 | |
| EPA 6010D | Magnesium | 15.2 | mg/L | 0.050 | 03/04/24 11:54 | |
| EPA 6020B | Barium | 0.060 | mg/L | 0.0050 | 03/04/24 16:50 | |
| EPA 6020B | Beryllium | 0.00011J | mg/L | 0.00050 | 03/04/24 16:50 | |
| EPA 6020B | Boron | 1.8 | mg/L | 0.040 | 03/04/24 16:50 | |
| EPA 6020B | Cobalt | 0.016 | mg/L | 0.0050 | 03/04/24 16:50 | |
| EPA 6020B | Lithium | 0.0070J | mg/L | 0.030 | 03/04/24 16:50 | |
| EPA 6020B | Molybdenum | 0.0015J | mg/L | 0.010 | 03/04/24 16:50 | |
| SM 2540C-2015 | Total Dissolved Solids | 194 | mg/L | 25.0 | 02/28/24 12:02 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 136 | mg/L | 5.0 | 02/29/24 16:07 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 136 | mg/L | 5.0 | 02/29/24 16:07 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 12.5 | mg/L | 1.0 | 02/24/24 17:22 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.082J | mg/L | 0.10 | 02/24/24 17:22 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 3.8 | mg/L | 1.0 | 02/24/24 17:22 | |
| **92715028003** | **YAT-YGWC-28S** | | | | | |
| EPA 6010D | Potassium | 4.0 | mg/L | 0.50 | 03/04/24 11:56 | |
| EPA 6010D | Sodium | 11.3 | mg/L | 1.0 | 03/04/24 11:56 | |
| EPA 6010D | Calcium | 31.0 | mg/L | 1.0 | 03/04/24 11:56 | |
| EPA 6010D | Magnesium | 22.3 | mg/L | 0.050 | 03/04/24 11:56 | |
| EPA 6020B | Barium | 0.21 | mg/L | 0.0050 | 03/04/24 16:53 | |
| EPA 6020B | Boron | 2.3 | mg/L | 0.040 | 03/04/24 16:53 | |
| EPA 6020B | Cobalt | 0.00074J | mg/L | 0.0050 | 03/04/24 16:53 | |
| EPA 6020B | Molybdenum | 0.00068J | mg/L | 0.010 | 03/04/24 16:53 | |
| SM 2540C-2015 | Total Dissolved Solids | 235 | mg/L | 25.0 | 02/28/24 12:02 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 178 | mg/L | 5.0 | 02/29/24 17:17 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 178 | mg/L | 5.0 | 02/29/24 17:17 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 17.5 | mg/L | 1.0 | 02/24/24 17:36 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.15 | mg/L | 0.10 | 02/24/24 17:36 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 3.9 | mg/L | 1.0 | 02/24/24 17:36 | |

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## SUMMARY OF DETECTION

Project: YAT AP-2
Pace Project No.: 92715028

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **92715028004** | **YAT-YGWC-28I** | | | | | |
| EPA 6010D | Potassium | 5.7 | mg/L | 0.50 | 03/04/24 11:58 | |
| EPA 6010D | Sodium | 9.3 | mg/L | 1.0 | 03/04/24 11:58 | |
| EPA 6010D | Calcium | 27.8 | mg/L | 1.0 | 03/04/24 11:58 | |
| EPA 6010D | Magnesium | 16.2 | mg/L | 0.050 | 03/04/24 11:58 | |
| EPA 6020B | Barium | 0.062 | mg/L | 0.0050 | 03/04/24 16:57 | |
| EPA 6020B | Boron | 1.6 | mg/L | 0.040 | 03/04/24 16:57 | |
| EPA 6020B | Lithium | 0.0056J | mg/L | 0.030 | 03/04/24 16:57 | |
| EPA 6020B | Molybdenum | 0.0013J | mg/L | 0.010 | 03/04/24 16:57 | |
| SM 2540C-2015 | Total Dissolved Solids | 213 | mg/L | 25.0 | 02/28/24 12:02 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 152 | mg/L | 5.0 | 02/29/24 17:39 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 152 | mg/L | 5.0 | 02/29/24 17:39 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 10.4 | mg/L | 1.0 | 02/24/24 17:50 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.096J | mg/L | 0.10 | 02/24/24 17:50 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 8.5 | mg/L | 1.0 | 02/24/24 17:50 | |
| **92715028005** | **YAT-AP2-FD-1** | | | | | |
| EPA 6010D | Potassium | 5.8 | mg/L | 0.50 | 03/04/24 12:01 | |
| EPA 6010D | Sodium | 9.5 | mg/L | 1.0 | 03/04/24 12:01 | |
| EPA 6010D | Calcium | 28.4 | mg/L | 1.0 | 03/04/24 12:01 | |
| EPA 6010D | Magnesium | 16.6 | mg/L | 0.050 | 03/04/24 12:01 | |
| EPA 6020B | Barium | 0.064 | mg/L | 0.0050 | 03/04/24 17:01 | |
| EPA 6020B | Boron | 1.7 | mg/L | 0.040 | 03/04/24 17:01 | |
| EPA 6020B | Cadmium | 0.00011J | mg/L | 0.00050 | 03/04/24 17:01 | |
| EPA 6020B | Lithium | 0.0058J | mg/L | 0.030 | 03/04/24 17:01 | |
| EPA 6020B | Molybdenum | 0.0014J | mg/L | 0.010 | 03/04/24 17:01 | |
| SM 2540C-2015 | Total Dissolved Solids | 214 | mg/L | 25.0 | 02/28/24 13:52 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 154 | mg/L | 5.0 | 02/29/24 18:01 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 154 | mg/L | 5.0 | 02/29/24 18:01 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 10.5 | mg/L | 1.0 | 02/24/24 19:02 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.099J | mg/L | 0.10 | 02/24/24 19:02 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 8.3 | mg/L | 1.0 | 02/24/24 19:02 | |
| **92715028006** | **YAT-AP2-EB-1** | | | | | |
| EPA 6020B | Boron | 0.061 | mg/L | 0.040 | 03/05/24 15:27 | |
| SM 2540C-2015 | Total Dissolved Solids | 74.0 | mg/L | 25.0 | 02/28/24 13:52 | |
| **92715028007** | **YAT-AP2-FB-1** | | | | | |
| EPA 6020B | Boron | 0.035J | mg/L | 0.040 | 03/04/24 17:30 | |
| SM 2540C-2015 | Total Dissolved Solids | 76.0 | mg/L | 25.0 | 02/28/24 13:53 | |
| **92715028008** | **YAT-YGWC-26S** | | | | | |
| EPA 6010D | Potassium | 0.80 | mg/L | 0.50 | 03/04/24 18:09 | |
| EPA 6010D | Sodium | 18.2 | mg/L | 1.0 | 03/04/24 18:09 | |
| EPA 6010D | Calcium | 11.0 | mg/L | 1.0 | 03/04/24 18:09 | |
| EPA 6010D | Magnesium | 15.7 | mg/L | 0.050 | 03/04/24 18:09 | |
| EPA 6020B | Barium | 0.025 | mg/L | 0.0050 | 03/05/24 15:44 | |
| EPA 6020B | Boron | 0.78 | mg/L | 0.040 | 03/05/24 15:44 | |
| EPA 6020B | Cobalt | 0.0012J | mg/L | 0.0050 | 03/05/24 15:44 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 15.3 | mg/L | 5.0 | 03/02/24 19:42 | |

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## SUMMARY OF DETECTION

Project: YAT AP-2
Pace Project No.: 92715028

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **92715028008** | **YAT-YGWC-26S** | | | | | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 15.3 | mg/L | 5.0 | 03/02/24 19:42 | |
| SM 2540C-2015 | Total Dissolved Solids | 188 | mg/L | 25.0 | 02/27/24 11:03 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 14.9 | mg/L | 1.0 | 02/28/24 00:26 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 89.3 | mg/L | 1.0 | 02/28/24 00:26 | |
| **92715028009** | **YAT-YGWC-26I** | | | | | |
| EPA 6010D | Potassium | 2.5 | mg/L | 0.50 | 03/04/24 18:12 | |
| EPA 6010D | Sodium | 23.8 | mg/L | 1.0 | 03/04/24 18:12 | |
| EPA 6010D | Calcium | 16.7 | mg/L | 1.0 | 03/04/24 18:12 | |
| EPA 6010D | Magnesium | 12.0 | mg/L | 0.050 | 03/04/24 18:12 | |
| EPA 6020B | Barium | 0.057 | mg/L | 0.0050 | 03/05/24 15:48 | |
| EPA 6020B | Boron | 0.77 | mg/L | 0.040 | 03/05/24 15:48 | |
| EPA 6020B | Lithium | 0.0078J | mg/L | 0.030 | 03/05/24 15:48 | |
| EPA 6020B | Selenium | 0.0041J | mg/L | 0.0050 | 03/05/24 15:48 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 31.3 | mg/L | 5.0 | 03/02/24 19:57 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 31.3 | mg/L | 5.0 | 03/02/24 19:57 | |
| SM 2540C-2015 | Total Dissolved Solids | 215 | mg/L | 25.0 | 02/27/24 11:03 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 16.0 | mg/L | 1.0 | 02/28/24 00:40 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.057J | mg/L | 0.10 | 02/28/24 00:40 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 80.7 | mg/L | 1.0 | 02/28/24 00:40 | |
| **92715028010** | **YAT-YGWC-29IB** | | | | | |
| EPA 6010D | Potassium | 3.7 | mg/L | 0.50 | 03/04/24 18:15 | |
| EPA 6010D | Sodium | 15.8 | mg/L | 1.0 | 03/04/24 18:15 | |
| EPA 6010D | Calcium | 11.5 | mg/L | 1.0 | 03/04/24 18:15 | |
| EPA 6010D | Magnesium | 11.6 | mg/L | 0.050 | 03/04/24 18:15 | |
| EPA 6020B | Barium | 0.081 | mg/L | 0.0050 | 03/05/24 15:51 | |
| EPA 6020B | Boron | 1.1 | mg/L | 0.040 | 03/05/24 15:51 | |
| EPA 6020B | Cadmium | 0.00012J | mg/L | 0.00050 | 03/05/24 15:51 | |
| EPA 6020B | Cobalt | 0.0071 | mg/L | 0.0050 | 03/05/24 15:51 | |
| EPA 6020B | Lithium | 0.0051J | mg/L | 0.030 | 03/05/24 15:51 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 68.1 | mg/L | 5.0 | 03/02/24 20:03 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 68.1 | mg/L | 5.0 | 03/02/24 20:03 | |
| SM 2540C-2015 | Total Dissolved Solids | 146 | mg/L | 25.0 | 02/27/24 11:03 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 10.5 | mg/L | 1.0 | 02/28/24 00:54 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.075J | mg/L | 0.10 | 02/28/24 00:54 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 26.9 | mg/L | 1.0 | 02/28/24 00:54 | |

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# ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92715028

**Sample: YAT-YGWC-27S** **Lab ID: 92715028001** Collected: 02/21/24 09:40 Received: 02/22/24 09:03 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **1.5** | mg/L | 0.50 | 0.15 | 1 | 02/29/24 13:30 | 03/04/24 10:43 | 7440-09-7 | |
| Sodium | **17.0** | mg/L | 1.0 | 0.58 | 1 | 02/29/24 13:30 | 03/04/24 10:43 | 7440-23-5 | |
| Calcium | **20.4** | mg/L | 1.0 | 0.12 | 1 | 02/29/24 13:30 | 03/04/24 10:43 | 7440-70-2 | |
| Magnesium | **7.6** | mg/L | 0.050 | 0.012 | 1 | 02/29/24 13:30 | 03/04/24 10:43 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/29/24 09:00 | 03/04/24 16:35 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/29/24 09:00 | 03/04/24 16:35 | 7440-38-2 | |
| Barium | **0.047** | mg/L | 0.0050 | 0.00047 | 1 | 02/29/24 09:00 | 03/04/24 16:35 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/29/24 09:00 | 03/04/24 16:35 | 7440-41-7 | |
| Boron | **0.91** | mg/L | 0.040 | 0.012 | 1 | 02/29/24 09:00 | 03/04/24 16:35 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/29/24 09:00 | 03/04/24 16:35 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/29/24 09:00 | 03/04/24 16:35 | 7440-47-3 | |
| Cobalt | **0.0016J** | mg/L | 0.0050 | 0.00032 | 1 | 02/29/24 09:00 | 03/04/24 16:35 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/29/24 09:00 | 03/04/24 16:35 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 02/29/24 09:00 | 03/04/24 16:35 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 02/29/24 09:00 | 03/04/24 16:35 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/29/24 09:00 | 03/04/24 16:35 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/29/24 09:00 | 03/04/24 16:35 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/04/24 17:15 | 03/05/24 08:41 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | **149** | mg/L | 25.0 | 25.0 | 1 | | 02/28/24 12:01 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **95.3** | mg/L | 5.0 | 5.0 | 1 | | 02/29/24 15:59 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/29/24 15:59 | | |
| Alkalinity, Total as CaCO3 | **95.3** | mg/L | 5.0 | 5.0 | 1 | | 02/29/24 15:59 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **12.6** | mg/L | 1.0 | 0.60 | 1 | | 02/24/24 17:07 | 16887-00-6 | |
| Fluoride | **0.11** | mg/L | 0.10 | 0.050 | 1 | | 02/24/24 17:07 | 16984-48-8 | |
| Sulfate | **13.0** | mg/L | 1.0 | 0.50 | 1 | | 02/24/24 17:07 | 14808-79-8 | |

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# ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92715028

**Sample: YAT-YGWC-27I** **Lab ID: 92715028002** Collected: 02/21/24 11:05 Received: 02/22/24 09:03 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **4.4** | mg/L | 0.50 | 0.15 | 1 | 02/29/24 13:30 | 03/04/24 11:54 | 7440-09-7 | |
| Sodium | **11.6** | mg/L | 1.0 | 0.58 | 1 | 02/29/24 13:30 | 03/04/24 11:54 | 7440-23-5 | |
| Calcium | **27.7** | mg/L | 1.0 | 0.12 | 1 | 02/29/24 13:30 | 03/04/24 11:54 | 7440-70-2 | |
| Magnesium | **15.2** | mg/L | 0.050 | 0.012 | 1 | 02/29/24 13:30 | 03/04/24 11:54 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/29/24 09:00 | 03/04/24 16:50 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/29/24 09:00 | 03/04/24 16:50 | 7440-38-2 | |
| Barium | **0.060** | mg/L | 0.0050 | 0.00047 | 1 | 02/29/24 09:00 | 03/04/24 16:50 | 7440-39-3 | |
| Beryllium | **0.00011J** | mg/L | 0.00050 | 0.000094 | 1 | 02/29/24 09:00 | 03/04/24 16:50 | 7440-41-7 | |
| Boron | **1.8** | mg/L | 0.040 | 0.012 | 1 | 02/29/24 09:00 | 03/04/24 16:50 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/29/24 09:00 | 03/04/24 16:50 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/29/24 09:00 | 03/04/24 16:50 | 7440-47-3 | |
| Cobalt | **0.016** | mg/L | 0.0050 | 0.00032 | 1 | 02/29/24 09:00 | 03/04/24 16:50 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/29/24 09:00 | 03/04/24 16:50 | 7439-92-1 | |
| Lithium | **0.0070J** | mg/L | 0.030 | 0.0016 | 1 | 02/29/24 09:00 | 03/04/24 16:50 | 7439-93-2 | |
| Molybdenum | **0.0015J** | mg/L | 0.010 | 0.00062 | 1 | 02/29/24 09:00 | 03/04/24 16:50 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/29/24 09:00 | 03/04/24 16:50 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/29/24 09:00 | 03/04/24 16:50 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/04/24 17:15 | 03/05/24 08:51 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | **194** | mg/L | 25.0 | 25.0 | 1 | | 02/28/24 12:02 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **136** | mg/L | 5.0 | 5.0 | 1 | | 02/29/24 16:07 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/29/24 16:07 | | |
| Alkalinity, Total as CaCO3 | **136** | mg/L | 5.0 | 5.0 | 1 | | 02/29/24 16:07 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **12.5** | mg/L | 1.0 | 0.60 | 1 | | 02/24/24 17:22 | 16887-00-6 | |
| Fluoride | **0.082J** | mg/L | 0.10 | 0.050 | 1 | | 02/24/24 17:22 | 16984-48-8 | |
| Sulfate | **3.8** | mg/L | 1.0 | 0.50 | 1 | | 02/24/24 17:22 | 14808-79-8 | |

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# ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92715028

**Sample: YAT-YGWC-28S** **Lab ID: 92715028003** Collected: 02/21/24 14:45 Received: 02/22/24 09:03 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **4.0** | mg/L | 0.50 | 0.15 | 1 | 02/29/24 13:30 | 03/04/24 11:56 | 7440-09-7 | |
| Sodium | **11.3** | mg/L | 1.0 | 0.58 | 1 | 02/29/24 13:30 | 03/04/24 11:56 | 7440-23-5 | |
| Calcium | **31.0** | mg/L | 1.0 | 0.12 | 1 | 02/29/24 13:30 | 03/04/24 11:56 | 7440-70-2 | |
| Magnesium | **22.3** | mg/L | 0.050 | 0.012 | 1 | 02/29/24 13:30 | 03/04/24 11:56 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/29/24 09:00 | 03/04/24 16:53 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/29/24 09:00 | 03/04/24 16:53 | 7440-38-2 | |
| Barium | **0.21** | mg/L | 0.0050 | 0.00047 | 1 | 02/29/24 09:00 | 03/04/24 16:53 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/29/24 09:00 | 03/04/24 16:53 | 7440-41-7 | |
| Boron | **2.3** | mg/L | 0.040 | 0.012 | 1 | 02/29/24 09:00 | 03/04/24 16:53 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/29/24 09:00 | 03/04/24 16:53 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/29/24 09:00 | 03/04/24 16:53 | 7440-47-3 | |
| Cobalt | **0.00074J** | mg/L | 0.0050 | 0.00032 | 1 | 02/29/24 09:00 | 03/04/24 16:53 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/29/24 09:00 | 03/04/24 16:53 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 02/29/24 09:00 | 03/04/24 16:53 | 7439-93-2 | |
| Molybdenum | **0.00068J** | mg/L | 0.010 | 0.00062 | 1 | 02/29/24 09:00 | 03/04/24 16:53 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/29/24 09:00 | 03/04/24 16:53 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/29/24 09:00 | 03/04/24 16:53 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/04/24 17:15 | 03/05/24 08:54 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | **235** | mg/L | 25.0 | 25.0 | 1 | | 02/28/24 12:02 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **178** | mg/L | 5.0 | 5.0 | 1 | | 02/29/24 17:17 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/29/24 17:17 | | |
| Alkalinity, Total as CaCO3 | **178** | mg/L | 5.0 | 5.0 | 1 | | 02/29/24 17:17 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **17.5** | mg/L | 1.0 | 0.60 | 1 | | 02/24/24 17:36 | 16887-00-6 | |
| Fluoride | **0.15** | mg/L | 0.10 | 0.050 | 1 | | 02/24/24 17:36 | 16984-48-8 | |
| Sulfate | **3.9** | mg/L | 1.0 | 0.50 | 1 | | 02/24/24 17:36 | 14808-79-8 | |

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# ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92715028

**Sample: YAT-YGWC-28I** **Lab ID: 92715028004** Collected: 02/21/24 16:35 Received: 02/22/24 09:03 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **5.7** | mg/L | 0.50 | 0.15 | 1 | 02/29/24 13:30 | 03/04/24 11:58 | 7440-09-7 | |
| Sodium | **9.3** | mg/L | 1.0 | 0.58 | 1 | 02/29/24 13:30 | 03/04/24 11:58 | 7440-23-5 | |
| Calcium | **27.8** | mg/L | 1.0 | 0.12 | 1 | 02/29/24 13:30 | 03/04/24 11:58 | 7440-70-2 | |
| Magnesium | **16.2** | mg/L | 0.050 | 0.012 | 1 | 02/29/24 13:30 | 03/04/24 11:58 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/29/24 09:00 | 03/04/24 16:57 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/29/24 09:00 | 03/04/24 16:57 | 7440-38-2 | |
| Barium | **0.062** | mg/L | 0.0050 | 0.00047 | 1 | 02/29/24 09:00 | 03/04/24 16:57 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/29/24 09:00 | 03/04/24 16:57 | 7440-41-7 | |
| Boron | **1.6** | mg/L | 0.040 | 0.012 | 1 | 02/29/24 09:00 | 03/04/24 16:57 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/29/24 09:00 | 03/04/24 16:57 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/29/24 09:00 | 03/04/24 16:57 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 02/29/24 09:00 | 03/04/24 16:57 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/29/24 09:00 | 03/04/24 16:57 | 7439-92-1 | |
| Lithium | **0.0056J** | mg/L | 0.030 | 0.0016 | 1 | 02/29/24 09:00 | 03/04/24 16:57 | 7439-93-2 | |
| Molybdenum | **0.0013J** | mg/L | 0.010 | 0.00062 | 1 | 02/29/24 09:00 | 03/04/24 16:57 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/29/24 09:00 | 03/04/24 16:57 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/29/24 09:00 | 03/04/24 16:57 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/04/24 17:15 | 03/05/24 08:56 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | **213** | mg/L | 25.0 | 25.0 | 1 | | 02/28/24 12:02 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **152** | mg/L | 5.0 | 5.0 | 1 | | 02/29/24 17:39 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/29/24 17:39 | | |
| Alkalinity, Total as CaCO3 | **152** | mg/L | 5.0 | 5.0 | 1 | | 02/29/24 17:39 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **10.4** | mg/L | 1.0 | 0.60 | 1 | | 02/24/24 17:50 | 16887-00-6 | |
| Fluoride | **0.096J** | mg/L | 0.10 | 0.050 | 1 | | 02/24/24 17:50 | 16984-48-8 | |
| Sulfate | **8.5** | mg/L | 1.0 | 0.50 | 1 | | 02/24/24 17:50 | 14808-79-8 | |

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# ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92715028

**Sample: YAT-AP2-FD-1** **Lab ID: 92715028005** Collected: 02/21/24 00:00 Received: 02/22/24 09:03 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **5.8** | mg/L | 0.50 | 0.15 | 1 | 02/29/24 13:30 | 03/04/24 12:01 | 7440-09-7 | |
| Sodium | **9.5** | mg/L | 1.0 | 0.58 | 1 | 02/29/24 13:30 | 03/04/24 12:01 | 7440-23-5 | |
| Calcium | **28.4** | mg/L | 1.0 | 0.12 | 1 | 02/29/24 13:30 | 03/04/24 12:01 | 7440-70-2 | |
| Magnesium | **16.6** | mg/L | 0.050 | 0.012 | 1 | 02/29/24 13:30 | 03/04/24 12:01 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/29/24 09:00 | 03/04/24 17:01 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/29/24 09:00 | 03/04/24 17:01 | 7440-38-2 | |
| Barium | **0.064** | mg/L | 0.0050 | 0.00047 | 1 | 02/29/24 09:00 | 03/04/24 17:01 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/29/24 09:00 | 03/04/24 17:01 | 7440-41-7 | |
| Boron | **1.7** | mg/L | 0.040 | 0.012 | 1 | 02/29/24 09:00 | 03/04/24 17:01 | 7440-42-8 | |
| Cadmium | **0.00011J** | mg/L | 0.00050 | 0.00010 | 1 | 02/29/24 09:00 | 03/04/24 17:01 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/29/24 09:00 | 03/04/24 17:01 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 02/29/24 09:00 | 03/04/24 17:01 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/29/24 09:00 | 03/04/24 17:01 | 7439-92-1 | |
| Lithium | **0.0058J** | mg/L | 0.030 | 0.0016 | 1 | 02/29/24 09:00 | 03/04/24 17:01 | 7439-93-2 | |
| Molybdenum | **0.0014J** | mg/L | 0.010 | 0.00062 | 1 | 02/29/24 09:00 | 03/04/24 17:01 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/29/24 09:00 | 03/04/24 17:01 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/29/24 09:00 | 03/04/24 17:01 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/04/24 17:15 | 03/05/24 09:04 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | **214** | mg/L | 25.0 | 25.0 | 1 | | 02/28/24 13:52 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **154** | mg/L | 5.0 | 5.0 | 1 | | 02/29/24 18:01 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/29/24 18:01 | | |
| Alkalinity, Total as CaCO3 | **154** | mg/L | 5.0 | 5.0 | 1 | | 02/29/24 18:01 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **10.5** | mg/L | 1.0 | 0.60 | 1 | | 02/24/24 19:02 | 16887-00-6 | |
| Fluoride | **0.099J** | mg/L | 0.10 | 0.050 | 1 | | 02/24/24 19:02 | 16984-48-8 | |
| Sulfate | **8.3** | mg/L | 1.0 | 0.50 | 1 | | 02/24/24 19:02 | 14808-79-8 | |

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# ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92715028

**Sample: YAT-AP2-EB-1** **Lab ID: 92715028006** Collected: 02/21/24 15:10 Received: 02/22/24 09:03 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | ND | mg/L | 0.50 | 0.15 | 1 | 02/29/24 13:30 | 03/04/24 12:04 | 7440-09-7 | |
| Sodium | ND | mg/L | 1.0 | 0.58 | 1 | 02/29/24 13:30 | 03/04/24 12:04 | 7440-23-5 | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 02/29/24 13:30 | 03/04/24 12:04 | 7440-70-2 | |
| Magnesium | ND | mg/L | 0.050 | 0.012 | 1 | 02/29/24 13:30 | 03/04/24 12:04 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/29/24 09:00 | 03/04/24 17:26 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/29/24 09:00 | 03/04/24 17:26 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00047 | 1 | 02/29/24 09:00 | 03/04/24 17:26 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/29/24 09:00 | 03/04/24 17:26 | 7440-41-7 | |
| Boron | **0.061** | mg/L | 0.040 | 0.012 | 1 | 02/29/24 09:00 | 03/05/24 15:27 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/29/24 09:00 | 03/04/24 17:26 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/29/24 09:00 | 03/04/24 17:26 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 02/29/24 09:00 | 03/04/24 17:26 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/29/24 09:00 | 03/04/24 17:26 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 02/29/24 09:00 | 03/04/24 17:26 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 02/29/24 09:00 | 03/04/24 17:26 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/29/24 09:00 | 03/04/24 17:26 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/29/24 09:00 | 03/04/24 17:26 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/04/24 17:15 | 03/05/24 09:07 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | **74.0** | mg/L | 25.0 | 25.0 | 1 | | 02/28/24 13:52 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/29/24 18:18 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/29/24 18:18 | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 02/29/24 18:18 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 02/24/24 14:17 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 02/24/24 14:17 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 02/24/24 14:17 | 14808-79-8 | |

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## ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92715028

**Sample: YAT-AP2-FB-1** **Lab ID: 92715028007** Collected: 02/21/24 15:00 Received: 02/22/24 09:03 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | ND | mg/L | 0.50 | 0.15 | 1 | 02/29/24 13:30 | 03/04/24 12:07 | 7440-09-7 | |
| Sodium | ND | mg/L | 1.0 | 0.58 | 1 | 02/29/24 13:30 | 03/04/24 12:07 | 7440-23-5 | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 02/29/24 13:30 | 03/04/24 12:07 | 7440-70-2 | |
| Magnesium | ND | mg/L | 0.050 | 0.012 | 1 | 02/29/24 13:30 | 03/04/24 12:07 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/29/24 09:00 | 03/04/24 17:30 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/29/24 09:00 | 03/04/24 17:30 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00047 | 1 | 02/29/24 09:00 | 03/04/24 17:30 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/29/24 09:00 | 03/04/24 17:30 | 7440-41-7 | |
| Boron | **0.035J** | mg/L | 0.040 | 0.012 | 1 | 02/29/24 09:00 | 03/04/24 17:30 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/29/24 09:00 | 03/04/24 17:30 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/29/24 09:00 | 03/04/24 17:30 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 02/29/24 09:00 | 03/04/24 17:30 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/29/24 09:00 | 03/04/24 17:30 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 02/29/24 09:00 | 03/04/24 17:30 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 02/29/24 09:00 | 03/04/24 17:30 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/29/24 09:00 | 03/04/24 17:30 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/29/24 09:00 | 03/04/24 17:30 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/04/24 17:15 | 03/05/24 09:09 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | **76.0** | mg/L | 25.0 | 25.0 | 1 | | 02/28/24 13:53 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/29/24 18:22 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/29/24 18:22 | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 02/29/24 18:22 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 02/24/24 14:31 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 02/24/24 14:31 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 02/24/24 14:31 | 14808-79-8 | |

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# ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92715028

**Sample: YAT-YGWC-26S** **Lab ID: 92715028008** Collected: 02/22/24 10:15 Received: 02/23/24 09:18 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **0.80** | mg/L | 0.50 | 0.15 | 1 | 02/29/24 14:43 | 03/04/24 18:09 | 7440-09-7 | |
| Sodium | **18.2** | mg/L | 1.0 | 0.58 | 1 | 02/29/24 14:43 | 03/04/24 18:09 | 7440-23-5 | |
| Calcium | **11.0** | mg/L | 1.0 | 0.12 | 1 | 02/29/24 14:43 | 03/04/24 18:09 | 7440-70-2 | |
| Magnesium | **15.7** | mg/L | 0.050 | 0.012 | 1 | 02/29/24 14:43 | 03/04/24 18:09 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/29/24 09:00 | 03/05/24 15:44 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/29/24 09:00 | 03/05/24 15:44 | 7440-38-2 | |
| Barium | **0.025** | mg/L | 0.0050 | 0.00047 | 1 | 02/29/24 09:00 | 03/05/24 15:44 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/29/24 09:00 | 03/05/24 15:44 | 7440-41-7 | |
| Boron | **0.78** | mg/L | 0.040 | 0.012 | 1 | 02/29/24 09:00 | 03/05/24 15:44 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/29/24 09:00 | 03/05/24 15:44 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/29/24 09:00 | 03/05/24 15:44 | 7440-47-3 | |
| Cobalt | **0.0012J** | mg/L | 0.0050 | 0.00032 | 1 | 02/29/24 09:00 | 03/05/24 15:44 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/29/24 09:00 | 03/05/24 15:44 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 02/29/24 09:00 | 03/05/24 15:44 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 02/29/24 09:00 | 03/05/24 15:44 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/29/24 09:00 | 03/05/24 15:44 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/29/24 09:00 | 03/05/24 15:44 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/04/24 17:15 | 03/05/24 09:12 | 7439-97-6 | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **15.3** | mg/L | 5.0 | 5.0 | 1 | | 03/02/24 19:42 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 03/02/24 19:42 | | |
| Alkalinity, Total as CaCO3 | **15.3** | mg/L | 5.0 | 5.0 | 1 | | 03/02/24 19:42 | | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Asheville | | | | | | | | |
| Total Dissolved Solids | **188** | mg/L | 25.0 | 25.0 | 1 | | 02/27/24 11:03 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **14.9** | mg/L | 1.0 | 0.60 | 1 | | 02/28/24 00:26 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 02/28/24 00:26 | 16984-48-8 | |
| Sulfate | **89.3** | mg/L | 1.0 | 0.50 | 1 | | 02/28/24 00:26 | 14808-79-8 | |

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# ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92715028

**Sample: YAT-YGWC-26I** **Lab ID: 92715028009** Collected: 02/22/24 12:00 Received: 02/23/24 09:18 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **2.5** | mg/L | 0.50 | 0.15 | 1 | 02/29/24 14:43 | 03/04/24 18:12 | 7440-09-7 | |
| Sodium | **23.8** | mg/L | 1.0 | 0.58 | 1 | 02/29/24 14:43 | 03/04/24 18:12 | 7440-23-5 | |
| Calcium | **16.7** | mg/L | 1.0 | 0.12 | 1 | 02/29/24 14:43 | 03/04/24 18:12 | 7440-70-2 | |
| Magnesium | **12.0** | mg/L | 0.050 | 0.012 | 1 | 02/29/24 14:43 | 03/04/24 18:12 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/29/24 09:00 | 03/05/24 15:48 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/29/24 09:00 | 03/05/24 15:48 | 7440-38-2 | |
| Barium | **0.057** | mg/L | 0.0050 | 0.00047 | 1 | 02/29/24 09:00 | 03/05/24 15:48 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/29/24 09:00 | 03/05/24 15:48 | 7440-41-7 | |
| Boron | **0.77** | mg/L | 0.040 | 0.012 | 1 | 02/29/24 09:00 | 03/05/24 15:48 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/29/24 09:00 | 03/05/24 15:48 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/29/24 09:00 | 03/05/24 15:48 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 02/29/24 09:00 | 03/05/24 15:48 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/29/24 09:00 | 03/05/24 15:48 | 7439-92-1 | |
| Lithium | **0.0078J** | mg/L | 0.030 | 0.0016 | 1 | 02/29/24 09:00 | 03/05/24 15:48 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 02/29/24 09:00 | 03/05/24 15:48 | 7439-98-7 | |
| Selenium | **0.0041J** | mg/L | 0.0050 | 0.00096 | 1 | 02/29/24 09:00 | 03/05/24 15:48 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/29/24 09:00 | 03/05/24 15:48 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/04/24 17:15 | 03/05/24 09:15 | 7439-97-6 | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **31.3** | mg/L | 5.0 | 5.0 | 1 | | 03/02/24 19:57 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 03/02/24 19:57 | | |
| Alkalinity, Total as CaCO3 | **31.3** | mg/L | 5.0 | 5.0 | 1 | | 03/02/24 19:57 | | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Asheville | | | | | | | | |
| Total Dissolved Solids | **215** | mg/L | 25.0 | 25.0 | 1 | | 02/27/24 11:03 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **16.0** | mg/L | 1.0 | 0.60 | 1 | | 02/28/24 00:40 | 16887-00-6 | |
| Fluoride | **0.057J** | mg/L | 0.10 | 0.050 | 1 | | 02/28/24 00:40 | 16984-48-8 | |
| Sulfate | **80.7** | mg/L | 1.0 | 0.50 | 1 | | 02/28/24 00:40 | 14808-79-8 | |

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# ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92715028

**Sample: YAT-YGWC-29IB** **Lab ID: 92715028010** Collected: 02/22/24 14:10 Received: 02/23/24 09:18 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **3.7** | mg/L | 0.50 | 0.15 | 1 | 02/29/24 14:43 | 03/04/24 18:15 | 7440-09-7 | |
| Sodium | **15.8** | mg/L | 1.0 | 0.58 | 1 | 02/29/24 14:43 | 03/04/24 18:15 | 7440-23-5 | |
| Calcium | **11.5** | mg/L | 1.0 | 0.12 | 1 | 02/29/24 14:43 | 03/04/24 18:15 | 7440-70-2 | |
| Magnesium | **11.6** | mg/L | 0.050 | 0.012 | 1 | 02/29/24 14:43 | 03/04/24 18:15 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/29/24 09:00 | 03/05/24 15:51 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/29/24 09:00 | 03/05/24 15:51 | 7440-38-2 | |
| Barium | **0.081** | mg/L | 0.0050 | 0.00047 | 1 | 02/29/24 09:00 | 03/05/24 15:51 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/29/24 09:00 | 03/05/24 15:51 | 7440-41-7 | |
| Boron | **1.1** | mg/L | 0.040 | 0.012 | 1 | 02/29/24 09:00 | 03/05/24 15:51 | 7440-42-8 | |
| Cadmium | **0.00012J** | mg/L | 0.00050 | 0.00010 | 1 | 02/29/24 09:00 | 03/05/24 15:51 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/29/24 09:00 | 03/05/24 15:51 | 7440-47-3 | |
| Cobalt | **0.0071** | mg/L | 0.0050 | 0.00032 | 1 | 02/29/24 09:00 | 03/05/24 15:51 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/29/24 09:00 | 03/05/24 15:51 | 7439-92-1 | |
| Lithium | **0.0051J** | mg/L | 0.030 | 0.0016 | 1 | 02/29/24 09:00 | 03/05/24 15:51 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 02/29/24 09:00 | 03/05/24 15:51 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/29/24 09:00 | 03/05/24 15:51 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/29/24 09:00 | 03/05/24 15:51 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/04/24 17:15 | 03/05/24 09:17 | 7439-97-6 | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **68.1** | mg/L | 5.0 | 5.0 | 1 | | 03/02/24 20:03 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 03/02/24 20:03 | | |
| Alkalinity, Total as CaCO3 | **68.1** | mg/L | 5.0 | 5.0 | 1 | | 03/02/24 20:03 | | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Asheville | | | | | | | | |
| Total Dissolved Solids | **146** | mg/L | 25.0 | 25.0 | 1 | | 02/27/24 11:03 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **10.5** | mg/L | 1.0 | 0.60 | 1 | | 02/28/24 00:54 | 16887-00-6 | |
| Fluoride | **0.075J** | mg/L | 0.10 | 0.050 | 1 | | 02/28/24 00:54 | 16984-48-8 | |
| Sulfate | **26.9** | mg/L | 1.0 | 0.50 | 1 | | 02/28/24 00:54 | 14808-79-8 | |

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# QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

QC Batch: 835845
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715028001, 92715028002, 92715028003, 92715028004, 92715028005, 92715028006, 92715028007

METHOD BLANK: 4318130 Matrix: Water
Associated Lab Samples: 92715028001, 92715028002, 92715028003, 92715028004, 92715028005, 92715028006, 92715028007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Calcium | mg/L | ND | 1.0 | 0.12 | 03/04/24 09:50 | |
| Magnesium | mg/L | ND | 0.050 | 0.012 | 03/04/24 09:50 | |
| Potassium | mg/L | ND | 0.50 | 0.15 | 03/04/24 09:50 | |
| Sodium | mg/L | ND | 1.0 | 0.58 | 03/04/24 09:50 | |

LABORATORY CONTROL SAMPLE: 4318131

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Calcium | mg/L | 1 | 1.0 | 104 | 80-120 | |
| Magnesium | mg/L | 1 | 1.1 | 108 | 80-120 | |
| Potassium | mg/L | 1 | 1.1 | 106 | 80-120 | |
| Sodium | mg/L | 1 | 1.1 | 110 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4318132 4318133

| Parameter | Units | 92715026002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | mg/L | 31.6 | 1 | 1 | 31.9 | 32.0 | 33 | 40 | 75-125 | 0 | 20 | M1 |
| Magnesium | mg/L | 27.1 | 1 | 1 | 27.7 | 28.0 | 60 | 89 | 75-125 | 1 | 20 | M1 |
| Potassium | mg/L | 3.9 | 1 | 1 | 4.9 | 5.0 | 95 | 104 | 75-125 | 2 | 20 | |
| Sodium | mg/L | 16.9 | 1 | 1 | 17.7 | 18.0 | 87 | 111 | 75-125 | 1 | 20 | |

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# QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

QC Batch: 835873
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715028008, 92715028009, 92715028010

METHOD BLANK: 4318271 Matrix: Water
Associated Lab Samples: 92715028008, 92715028009, 92715028010

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Calcium | mg/L | ND | 1.0 | 0.12 | 03/04/24 17:06 | |
| Magnesium | mg/L | ND | 0.050 | 0.012 | 03/04/24 17:06 | |
| Potassium | mg/L | ND | 0.50 | 0.15 | 03/04/24 17:06 | |
| Sodium | mg/L | ND | 1.0 | 0.58 | 03/04/24 17:06 | |

LABORATORY CONTROL SAMPLE: 4318272

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Calcium | mg/L | 1 | 1.1 | 106 | 80-120 | |
| Magnesium | mg/L | 1 | 1.1 | 110 | 80-120 | |
| Potassium | mg/L | 1 | 1.1 | 111 | 80-120 | |
| Sodium | mg/L | 1 | 1.2 | 117 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4318273 4318274

| Parameter | Units | 92715157005 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | mg/L | 0.78J | 1 | 1 | 1.8 | 1.8 | 100 | 102 | 75-125 | 1 | 20 | |
| Magnesium | mg/L | 0.34 | 1 | 1 | 1.4 | 1.4 | 106 | 107 | 75-125 | 1 | 20 | |
| Potassium | mg/L | 0.30J | 1 | 1 | 1.3 | 1.3 | 99 | 103 | 75-125 | 3 | 20 | |
| Sodium | mg/L | 1.0 | 1 | 1 | 2.0 | 2.0 | 97 | 101 | 75-125 | 2 | 20 | |

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## QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

QC Batch: 835669
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715028001, 92715028002, 92715028003, 92715028004, 92715028005, 92715028006, 92715028007

METHOD BLANK: 4317353 Matrix: Water
Associated Lab Samples: 92715028001, 92715028002, 92715028003, 92715028004, 92715028005, 92715028006, 92715028007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | mg/L | ND | 0.0030 | 0.00054 | 03/04/24 16:27 | |
| Arsenic | mg/L | ND | 0.0050 | 0.00084 | 03/04/24 16:27 | |
| Barium | mg/L | ND | 0.0050 | 0.00047 | 03/04/24 16:27 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000094 | 03/04/24 16:27 | |
| Boron | mg/L | ND | 0.040 | 0.012 | 03/04/24 16:27 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00010 | 03/04/24 16:27 | |
| Chromium | mg/L | ND | 0.0050 | 0.0019 | 03/04/24 16:27 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00032 | 03/04/24 16:27 | |
| Lead | mg/L | ND | 0.0010 | 0.00016 | 03/04/24 16:27 | |
| Lithium | mg/L | ND | 0.030 | 0.0016 | 03/04/24 16:27 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00062 | 03/04/24 16:27 | |
| Selenium | mg/L | ND | 0.0050 | 0.00096 | 03/04/24 16:27 | |
| Thallium | mg/L | ND | 0.0010 | 0.00038 | 03/04/24 16:27 | |

LABORATORY CONTROL SAMPLE: 4317354

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | mg/L | 0.1 | 0.11 | 106 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Barium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.11 | 107 | 80-120 | |
| Boron | mg/L | 1 | 1.0 | 100 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Lead | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.10 | 101 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4317355 4317356

| Parameter | Units | 92715028001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 102 | 101 | 75-125 | 1 | 20 | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 101 | 75-125 | 0 | 20 | |

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## QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4317355 4317356

| Parameter | Units | 92715028001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | mg/L | 0.047 | 0.1 | 0.1 | 0.15 | 0.15 | 104 | 102 | 75-125 | 1 | 20 | |
| Beryllium | mg/L | ND | 0.1 | 0.1 | 0.096 | 0.096 | 96 | 96 | 75-125 | 1 | 20 | |
| Boron | mg/L | 0.91 | 1 | 1 | 1.9 | 1.8 | 96 | 94 | 75-125 | 1 | 20 | |
| Cadmium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 102 | 75-125 | 1 | 20 | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.099 | 0.099 | 99 | 99 | 75-125 | 0 | 20 | |
| Cobalt | mg/L | 0.0016J | 0.1 | 0.1 | 0.10 | 0.099 | 99 | 98 | 75-125 | 2 | 20 | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.096 | 0.095 | 96 | 95 | 75-125 | 1 | 20 | |
| Lithium | mg/L | ND | 0.1 | 0.1 | 0.094 | 0.096 | 94 | 96 | 75-125 | 2 | 20 | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.097 | 0.096 | 97 | 96 | 75-125 | 1 | 20 | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.099 | 0.099 | 99 | 99 | 75-125 | 0 | 20 | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.096 | 0.095 | 96 | 95 | 75-125 | 1 | 20 | |

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## QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

QC Batch: 835671
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715028008, 92715028009, 92715028010

METHOD BLANK: 4317361 Matrix: Water
Associated Lab Samples: 92715028008, 92715028009, 92715028010

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | mg/L | ND | 0.0030 | 0.00054 | 03/05/24 14:25 | |
| Arsenic | mg/L | ND | 0.0050 | 0.00084 | 03/05/24 14:25 | |
| Barium | mg/L | ND | 0.0050 | 0.00047 | 03/05/24 14:25 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000094 | 03/05/24 14:25 | |
| Boron | mg/L | ND | 0.040 | 0.012 | 03/05/24 14:25 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00010 | 03/05/24 14:25 | |
| Chromium | mg/L | ND | 0.0050 | 0.0019 | 03/05/24 14:25 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00032 | 03/05/24 14:25 | |
| Lead | mg/L | ND | 0.0010 | 0.00016 | 03/05/24 14:25 | |
| Lithium | mg/L | ND | 0.030 | 0.0016 | 03/05/24 14:25 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00062 | 03/05/24 14:25 | |
| Selenium | mg/L | ND | 0.0050 | 0.00096 | 03/05/24 14:25 | |
| Thallium | mg/L | ND | 0.0010 | 0.00038 | 03/05/24 14:25 | |

LABORATORY CONTROL SAMPLE: 4317362

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Barium | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.11 | 105 | 80-120 | |
| Boron | mg/L | 1 | 1.0 | 103 | 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 | 0.10 | 101 | 80-120 | |
| Lead | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.11 | 106 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.099 | 99 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4317363 4317364

| Parameter | Units | 92715031012 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 103 | 105 | 75-125 | 2 | 20 | |
| Arsenic | mg/L | 0.0011J | 0.1 | 0.1 | 0.11 | 0.11 | 104 | 107 | 75-125 | 3 | 20 | |

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## QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4317363 4317364

| Parameter | Units | 92715031012 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | mg/L | 0.035 | 0.1 | 0.1 | 0.14 | 0.14 | 101 | 104 | 75-125 | 2 | 20 | |
| Beryllium | mg/L | 0.00013J | 0.1 | 0.1 | 0.091 | 0.092 | 91 | 92 | 75-125 | 1 | 20 | |
| Boron | mg/L | 6.7 | 1 | 1 | 7.6 | 7.6 | 89 | 87 | 75-125 | 0 | 20 | |
| Cadmium | mg/L | 0.00022J | 0.1 | 0.1 | 0.10 | 0.10 | 102 | 104 | 75-125 | 2 | 20 | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 105 | 107 | 75-125 | 2 | 20 | |
| Cobalt | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.11 | 103 | 106 | 75-125 | 3 | 20 | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.094 | 0.095 | 94 | 95 | 75-125 | 1 | 20 | |
| Lithium | mg/L | 0.014J | 0.1 | 0.1 | 0.11 | 0.11 | 92 | 94 | 75-125 | 2 | 20 | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 100 | 104 | 75-125 | 4 | 20 | |
| Selenium | mg/L | 0.053 | 0.1 | 0.1 | 0.16 | 0.16 | 102 | 105 | 75-125 | 2 | 20 | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.093 | 0.095 | 93 | 95 | 75-125 | 2 | 20 | |

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## QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

QC Batch: 836578
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715028001, 92715028002, 92715028003, 92715028004, 92715028005, 92715028006, 92715028007, 92715028008, 92715028009, 92715028010

METHOD BLANK: 4321222 Matrix: Water
Associated Lab Samples: 92715028001, 92715028002, 92715028003, 92715028004, 92715028005, 92715028006, 92715028007, 92715028008, 92715028009, 92715028010

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/L | ND | 0.00020 | 0.00013 | 03/05/24 08:32 | |

LABORATORY CONTROL SAMPLE: 4321223

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/L | 0.0025 | 0.0021 | 84 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4321224 4321225

| Parameter | Units | 92715028001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/L | ND | 0.0025 | 0.0025 | 0.0021 | 0.0021 | 83 | 83 | 75-125 | 1 | 20 | |

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# QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

QC Batch: 835492
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715028001, 92715028002, 92715028003, 92715028004

METHOD BLANK: 4316131 Matrix: Water
Associated Lab Samples: 92715028001, 92715028002, 92715028003, 92715028004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 02/28/24 11:55 | |

LABORATORY CONTROL SAMPLE: 4316132

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 400 | 395 | 99 | 80-120 | |

SAMPLE DUPLICATE: 4316133

| Parameter | Units | 92714999004 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 1370 | 1380 | 0 | 10 | |

SAMPLE DUPLICATE: 4316134

| Parameter | Units | 92715026002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 309 | 323 | 4 | 10 | |

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## QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

QC Batch: 835493 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715028005, 92715028006, 92715028007

METHOD BLANK: 4316139 Matrix: Water
Associated Lab Samples: 92715028005, 92715028006, 92715028007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 02/28/24 13:51 | |

LABORATORY CONTROL SAMPLE: 4316140

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 400 | 400 | 100 | 80-120 | |

SAMPLE DUPLICATE: 4316141

| Parameter | Units | 92715028005 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 214 | 198 | 8 | 10 | |

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# QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

QC Batch: 835303
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92715028001, 92715028002

METHOD BLANK: 4315450 Matrix: Water
Associated Lab Samples: 92715028001, 92715028002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 02/29/24 13:34 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 02/29/24 13:34 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 02/29/24 13:34 | |

LABORATORY CONTROL SAMPLE: 4315451

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 50.6 | 101 | 80-120 | |

LABORATORY CONTROL SAMPLE: 4315452

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 52.5 | 105 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4315453 4315454

| Parameter | Units | 92714999007 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | ND | 50 | 50 | 49.9 | 50.3 | 99 | 100 | 80-120 | 1 | 25 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4315455 4315456

| Parameter | Units | 92714999008 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | ND | 50 | 50 | 49.9 | 50.6 | 100 | 101 | 80-120 | 1 | 25 | |

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# QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

QC Batch: 835849
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92715028003, 92715028004, 92715028005, 92715028006, 92715028007

METHOD BLANK: 4318153 Matrix: Water
Associated Lab Samples: 92715028003, 92715028004, 92715028005, 92715028006, 92715028007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 02/29/24 17:02 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 02/29/24 17:02 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 02/29/24 17:02 | |

LABORATORY CONTROL SAMPLE: 4318154

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 49.1 | 98 | 80-120 | |

LABORATORY CONTROL SAMPLE: 4318155

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 50.1 | 100 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4318156 4318157

| Parameter | Units | 92715028003 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 178 | 50 | 50 | 226 | 226 | 95 | 96 | 80-120 | 0 | 25 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4318158 4318159

| Parameter | Units | 92715028004 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 152 | 50 | 50 | 199 | 198 | 95 | 92 | 80-120 | 1 | 25 | |

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# QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

QC Batch: 836394
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92715028008, 92715028009, 92715028010

METHOD BLANK: 4320604 Matrix: Water
Associated Lab Samples: 92715028008, 92715028009, 92715028010

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 03/02/24 17:40 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 03/02/24 17:40 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 03/02/24 17:40 | |

LABORATORY CONTROL SAMPLE: 4320605

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 51.3 | 103 | 80-120 | |

LABORATORY CONTROL SAMPLE: 4320606

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 53.4 | 107 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4320607 4320608

| Parameter | Units | 92716156001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 47.5 | 50 | 50 | 99.0 | 101 | 103 | 106 | 80-120 | 2 | 25 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4320609 4320610

| Parameter | Units | 92716156002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 36.0 | 50 | 50 | 86.4 | 86.8 | 101 | 102 | 80-120 | 0 | 25 | |

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## QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

QC Batch: 835155 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92715028008, 92715028009, 92715028010

METHOD BLANK: 4314552 Matrix: Water
Associated Lab Samples: 92715028008, 92715028009, 92715028010

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 02/27/24 11:02 | |

LABORATORY CONTROL SAMPLE: 4314553

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 250 | 254 | 101 | 90-110 | |

SAMPLE DUPLICATE: 4314554

| Parameter | Units | 92715255001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 160 | 164 | 2 | 25 | |

SAMPLE DUPLICATE: 4314555

| Parameter | Units | 92715247002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 802 | 770 | 4 | 25 | |

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# QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

QC Batch: 834818
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92715028001, 92715028002, 92715028003, 92715028004, 92715028005, 92715028006, 92715028007

METHOD BLANK: 4313203 Matrix: Water
Associated Lab Samples: 92715028001, 92715028002, 92715028003, 92715028004, 92715028005, 92715028006, 92715028007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | ND | 1.0 | 0.60 | 02/24/24 13:22 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 02/24/24 13:22 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 02/24/24 13:22 | |

LABORATORY CONTROL SAMPLE: 4313204

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | 50 | 51.2 | 102 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.6 | 105 | 90-110 | |
| Sulfate | mg/L | 50 | 51.3 | 103 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4313205 4313206

| Parameter | Units | 92715026001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | mg/L | 2.9 | 50 | 50 | 52.6 | 54.6 | 99 | 103 | 90-110 | 4 | 10 | |
| Fluoride | mg/L | 0.054J | 2.5 | 2.5 | 2.5 | 2.6 | 100 | 102 | 90-110 | 3 | 10 | |
| Sulfate | mg/L | 98.9 | 50 | 50 | 135 | 137 | 72 | 76 | 90-110 | 2 | 10 | M1 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4313207 4313208

| Parameter | Units | 92715028004 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | mg/L | 10.4 | 50 | 50 | 61.2 | 61.7 | 102 | 103 | 90-110 | 1 | 10 | |
| Fluoride | mg/L | 0.096J | 2.5 | 2.5 | 2.5 | 2.5 | 95 | 96 | 90-110 | 1 | 10 | |
| Sulfate | mg/L | 8.5 | 50 | 50 | 59.7 | 60.2 | 102 | 103 | 90-110 | 1 | 10 | |

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

## REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

# QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

QC Batch: 835357
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92715028008, 92715028009, 92715028010

METHOD BLANK: 4315767 Matrix: Water
Associated Lab Samples: 92715028008, 92715028009, 92715028010

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | ND | 1.0 | 0.60 | 02/27/24 20:49 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 02/27/24 20:49 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 02/27/24 20:49 | |

LABORATORY CONTROL SAMPLE: 4315768

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | 50 | 50.3 | 101 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.5 | 101 | 90-110 | |
| Sulfate | mg/L | 50 | 50.4 | 101 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4315769 4315770

| Parameter | Units | 92715521002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | mg/L | 38.2 | 50 | 50 | 88.2 | 88.6 | 100 | 101 | 90-110 | 0 | 10 | |
| Fluoride | mg/L | 0.72 | 2.5 | 2.5 | 3.2 | 3.2 | 98 | 97 | 90-110 | 1 | 10 | |
| Sulfate | mg/L | 207 | 50 | 50 | 255 | 256 | 98 | 98 | 90-110 | 0 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4315771 4315772

| Parameter | Units | 92715157010 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | mg/L | 1.1 | 50 | 50 | 51.9 | 52.7 | 102 | 103 | 90-110 | 1 | 10 | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 2.3 | 2.4 | 93 | 95 | 90-110 | 2 | 10 | |
| Sulfate | mg/L | 1.7 | 50 | 50 | 52.7 | 53.6 | 102 | 104 | 90-110 | 2 | 10 | |

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

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Huntersville, NC 28078
(704)875-9092

# QUALIFIERS

Project: YAT AP-2
Pace Project No.: 92715028

## DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

## ANALYTE QUALIFIERS

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



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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-2
Pace Project No.: 92715028

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **92715028001** | **YAT-YGWC-27S** | EPA 3010A | 835845 | EPA 6010D | 835914 |
| **92715028002** | **YAT-YGWC-27I** | EPA 3010A | 835845 | EPA 6010D | 835914 |
| **92715028003** | **YAT-YGWC-28S** | EPA 3010A | 835845 | EPA 6010D | 835914 |
| **92715028004** | **YAT-YGWC-28I** | EPA 3010A | 835845 | EPA 6010D | 835914 |
| **92715028005** | **YAT-AP2-FD-1** | EPA 3010A | 835845 | EPA 6010D | 835914 |
| **92715028006** | **YAT-AP2-EB-1** | EPA 3010A | 835845 | EPA 6010D | 835914 |
| **92715028007** | **YAT-AP2-FB-1** | EPA 3010A | 835845 | EPA 6010D | 835914 |
| **92715028008** | **YAT-YGWC-26S** | EPA 3010A | 835873 | EPA 6010D | 835959 |
| **92715028009** | **YAT-YGWC-26I** | EPA 3010A | 835873 | EPA 6010D | 835959 |
| **92715028010** | **YAT-YGWC-29IB** | EPA 3010A | 835873 | EPA 6010D | 835959 |
| **92715028001** | **YAT-YGWC-27S** | EPA 3005A | 835669 | EPA 6020B | 835900 |
| **92715028002** | **YAT-YGWC-27I** | EPA 3005A | 835669 | EPA 6020B | 835900 |
| **92715028003** | **YAT-YGWC-28S** | EPA 3005A | 835669 | EPA 6020B | 835900 |
| **92715028004** | **YAT-YGWC-28I** | EPA 3005A | 835669 | EPA 6020B | 835900 |
| **92715028005** | **YAT-AP2-FD-1** | EPA 3005A | 835669 | EPA 6020B | 835900 |
| **92715028006** | **YAT-AP2-EB-1** | EPA 3005A | 835669 | EPA 6020B | 835900 |
| **92715028007** | **YAT-AP2-FB-1** | EPA 3005A | 835669 | EPA 6020B | 835900 |
| **92715028008** | **YAT-YGWC-26S** | EPA 3005A | 835671 | EPA 6020B | 835903 |
| **92715028009** | **YAT-YGWC-26I** | EPA 3005A | 835671 | EPA 6020B | 835903 |
| **92715028010** | **YAT-YGWC-29IB** | EPA 3005A | 835671 | EPA 6020B | 835903 |
| **92715028001** | **YAT-YGWC-27S** | EPA 7470A | 836578 | EPA 7470A | 836678 |
| **92715028002** | **YAT-YGWC-27I** | EPA 7470A | 836578 | EPA 7470A | 836678 |
| **92715028003** | **YAT-YGWC-28S** | EPA 7470A | 836578 | EPA 7470A | 836678 |
| **92715028004** | **YAT-YGWC-28I** | EPA 7470A | 836578 | EPA 7470A | 836678 |
| **92715028005** | **YAT-AP2-FD-1** | EPA 7470A | 836578 | EPA 7470A | 836678 |
| **92715028006** | **YAT-AP2-EB-1** | EPA 7470A | 836578 | EPA 7470A | 836678 |
| **92715028007** | **YAT-AP2-FB-1** | EPA 7470A | 836578 | EPA 7470A | 836678 |
| **92715028008** | **YAT-YGWC-26S** | EPA 7470A | 836578 | EPA 7470A | 836678 |
| **92715028009** | **YAT-YGWC-26I** | EPA 7470A | 836578 | EPA 7470A | 836678 |
| **92715028010** | **YAT-YGWC-29IB** | EPA 7470A | 836578 | EPA 7470A | 836678 |
| **92715028001** | **YAT-YGWC-27S** | SM 2540C-2015 | 835492 | | |
| **92715028002** | **YAT-YGWC-27I** | SM 2540C-2015 | 835492 | | |
| **92715028003** | **YAT-YGWC-28S** | SM 2540C-2015 | 835492 | | |
| **92715028004** | **YAT-YGWC-28I** | SM 2540C-2015 | 835492 | | |
| **92715028005** | **YAT-AP2-FD-1** | SM 2540C-2015 | 835493 | | |
| **92715028006** | **YAT-AP2-EB-1** | SM 2540C-2015 | 835493 | | |
| **92715028007** | **YAT-AP2-FB-1** | SM 2540C-2015 | 835493 | | |
| **92715028001** | **YAT-YGWC-27S** | SM 2320B-2011 | 835303 | | |
| **92715028002** | **YAT-YGWC-27I** | SM 2320B-2011 | 835303 | | |
| **92715028003** | **YAT-YGWC-28S** | SM 2320B-2011 | 835849 | | |
| **92715028004** | **YAT-YGWC-28I** | SM 2320B-2011 | 835849 | | |
| **92715028005** | **YAT-AP2-FD-1** | SM 2320B-2011 | 835849 | | |
| **92715028006** | **YAT-AP2-EB-1** | SM 2320B-2011 | 835849 | | |
| **92715028007** | **YAT-AP2-FB-1** | SM 2320B-2011 | 835849 | | |

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-2
Pace Project No.: 92715028

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **92715028008** | **YAT-YGWC-26S** | SM 2320B-2011 | 836394 | | |
| **92715028009** | **YAT-YGWC-26I** | SM 2320B-2011 | 836394 | | |
| **92715028010** | **YAT-YGWC-29IB** | SM 2320B-2011 | 836394 | | |
| **92715028008** | **YAT-YGWC-26S** | SM 2540C-2015 | 835155 | | |
| **92715028009** | **YAT-YGWC-26I** | SM 2540C-2015 | 835155 | | |
| **92715028010** | **YAT-YGWC-29IB** | SM 2540C-2015 | 835155 | | |
| **92715028001** | **YAT-YGWC-27S** | EPA 300.0 Rev 2.1 1993 | 834818 | | |
| **92715028002** | **YAT-YGWC-27I** | EPA 300.0 Rev 2.1 1993 | 834818 | | |
| **92715028003** | **YAT-YGWC-28S** | EPA 300.0 Rev 2.1 1993 | 834818 | | |
| **92715028004** | **YAT-YGWC-28I** | EPA 300.0 Rev 2.1 1993 | 834818 | | |
| **92715028005** | **YAT-AP2-FD-1** | EPA 300.0 Rev 2.1 1993 | 834818 | | |
| **92715028006** | **YAT-AP2-EB-1** | EPA 300.0 Rev 2.1 1993 | 834818 | | |
| **92715028007** | **YAT-AP2-FB-1** | EPA 300.0 Rev 2.1 1993 | 834818 | | |
| **92715028008** | **YAT-YGWC-26S** | EPA 300.0 Rev 2.1 1993 | 835357 | | |
| **92715028009** | **YAT-YGWC-26I** | EPA 300.0 Rev 2.1 1993 | 835357 | | |
| **92715028010** | **YAT-YGWC-29IB** | EPA 300.0 Rev 2.1 1993 | 835357 | | |



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| | |
|---|---|
| Pace ANALYTICAL SERVICES | **DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt** |
| | **Effective Date: 12/01/2023** |

**Laboratory receiving samples:**

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

**Sample Condition Upon Receipt**

**Client Name:** Lou Pinel

**Project #:**

**WO# : 92715028**

92715028

**Courier:** ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

**Custody Seal Present?** ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

**Date/Initials Person Examining Contents:** 7/10/24 JC

**Packing Material:** ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

**Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

**Thermometer:**

☑ IR Gun ID: 730 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

**Cooler Temp:** 2.2 **Correction Factor:** Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C

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

**Cooler Temp Corrected (°C):** 2.3

**USDA Regulated Soil** ( ☐ N/A, water sample)

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

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

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

**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:** _____

| Pace ANALYTICAL SERVICES | DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt |
|---|---|
| | Effective Date: 12/01/2023 |

WO# : 92715028
PM: BV Due Date: 03/07/24
CLIENT: 92-GP-Yates

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

Project #

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

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

***Check all unpreserved Nitrates for chlorine

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A – lab) | SP2T-250 mL Sterile Plastic (N/A – lab) | | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | 2 | 1 | | | X | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

## pH Adjustment Log for Preserved Samples

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

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

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for Instructions

927|5028

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-202451 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): YAT AP-2 | | Purchase Order # (if applicable): | GPCR2474-0002 |
| | | Quote #: | |

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers Plastic | Number & Type of Containers Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | Sample Comment | Preservation non-conformance identified for sample. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-YGWC-26S | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWC-26I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWC-27S | WG | G | 2/21/24 | 0940 | | | | 6 | | X | X | X | X | X | See Remarks 001 | |
| YAT-YGWC-27I | WG | G | 2/21/24 | 1105 | | | | 6 | | X | X | X | X | X | See Remarks 002 | |
| YAT-YGWC-28S | WG | G | 2/21/24 | 1445 | | | | 6 | | X | X | X | X | X | See Remarks 003 | |
| YAT-YGWC-28I | WG | G | 2/21/24 | 1635 | | | | 6 | | X | X | X | X | X | See Remarks 004 | |
| YAT-AP2-FD-1 | WG | G | 2/21/24 | — | | | | 6 | | X | X | X | X | X | See Remarks 005 | |
| YAT-AP2-EB-1 | WG | G | 2/21/24 | 1510 | | | | 6 | | X | X | X | X | X | See Remarks 006 | |
| YAT-AP2-FB-1 | WG | G | 2/21/24 | 1500 | | | | 6 | | X | X | X | X | X | See Remarks 007 | |
| YAT-YGWC-29IB | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) -
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Tracking Number: |
|---|---|---|---|---|
| | 2/22/24 0810 | Arcadis | 2/22/24 0810 | |
| Arcadis | 2/22/24 0903 | Pace | 2/22/24 0903 | Delivered by: [ ] In- Person [ ] Courier |
| Pace | 2/22/24 1545 | | 2/22 1545 | [ ] FedEX [ ] UPS [ ] Other |
| | | | | Page: 1 of 1 |

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

| Pace | DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt |
|---|---|
| | Effective Date: 12/01/2023 |

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

**Sample Condition Upon Receipt**

Client Name: GA Power

Project #: **WO#: 92715028**

PM: BV Due Date: 03/07/24

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☑ Pace ☐ Client ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 2/23/24 CH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.3 Correction Factor: Add/Subtract (°C) -0.1

Cooler Temp Corrected (°C): 1.2

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

USDA Regulated Soil ( ☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

| Pace ANALYTICAL SERVICES | DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt |
|---|---|
| | Effective Date: 12/01/2023 |

**WO#: 92715028**

**PM: BV** **Due Date: 03/07/24**

**CLIENT: 92-GP-Yates**

**Project #**

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

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

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

*****Check all unpreserved Nitrates for chlorine**

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (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) | BP | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | 2 | | | | | |
| 2 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | 2 | | | | | |
| 3 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | 2 | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**pH Adjustment Log for Preserved Samples**

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

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

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

92715626

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-202451 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): YAT AP-2 | | Purchase Order # (if applicable): | GPC82474-0002 |
| | | Quote #: | |

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers Plastic | Number & Type of Containers Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | Sample Comment | Preservation non-conformance identified for sample |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-YGWC-26S | WG | G | 2/22/24 | 1015 | | | | 6 | | X | X | X | X | X | See Remarks 008 | |
| YAT-YGWC-26I | WG | G | 2/22/24 | 1200 | | | | 6 | | X | X | X | X | X | See Remarks 009 | |
| YAT-YGWC-27S | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWC-27I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWC-28S | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWC-28I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-AP2-FD-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-AP2-EB-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-AP2-FB-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWC-29IB | WG | G | 2/22/24 | 1410 | | | | 6 | | X | X | X | X | X | See Remarks 010 | |

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) -
Signature: (Arcadis) - David Prouty

Additional Instructions from Pace®:

| # Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C) |
|---|---|---|---|---|
| | | | | |

| | Date/Time | | Date/Time | | Date/Time |
|---|---|---|---|---|---|
| Relinquished by/Company: (Signature) | 2/23/24 0800 | Received by/Company: (Signature) Arcadis | 2/23/24 0800 | | |
| Relinquished by/Company: (Signature) Arcadis | 2/23/24 0918 | Received by/Company: (Signature) Pace | 2/23/24 0918 | | |
| Relinquished by/Company: (Signature) Pace | 2/23/24 1307 | Received by/Company: (Signature) | 2/23/24 1307 | | |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | | |

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: 1 of 1

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**Pace Analytical Services, LLC**
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 21, 2024

Lauren Hartley
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT AP-2- RADs
Pace Project No.: 92715049

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between February 22, 2024 and February 23, 2024. 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,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis



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Huntersville, NC 28078
(704)875-9092

# CERTIFICATIONS

Project: YAT AP-2- RADs
Pace Project No.: 92715049

**Pace Analytical Services Pennsylvania**
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
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 #: PA014572023-03
New Hampshire/TNI Certification #: 297622
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 #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad



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Huntersville, NC 28078
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## SAMPLE SUMMARY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **92715049001** | **YAT-YGWC-27S** | Water | 02/21/24 09:40 | 02/22/24 09:03 |
| **92715049002** | **YAT-YGWC-27I** | Water | 02/21/24 11:05 | 02/22/24 09:03 |
| **92715049003** | **YAT-YGWC-28S** | Water | 02/21/24 14:45 | 02/22/24 09:03 |
| **92715049004** | **YAT-YGWC-28I** | Water | 02/21/24 16:35 | 02/22/24 09:03 |
| **92715049005** | **YAT-AP2-FD-1** | Water | 02/21/24 00:00 | 02/22/24 09:03 |
| **92715049006** | **YAT-AP2-EB-1** | Water | 02/21/24 15:10 | 02/22/24 09:03 |
| **92715049007** | **YAT-AP2-FB-1** | Water | 02/21/24 15:00 | 02/22/24 09:03 |
| **92715049008** | **YAT-YGWC-26S** | Water | 02/22/24 10:15 | 02/23/24 09:18 |
| **92715049009** | **YAT-YGWC-26I** | Water | 02/22/24 12:00 | 02/23/24 09:18 |
| **92715049010** | **YAT-YGWC-29IB** | Water | 02/22/24 14:10 | 02/23/24 09:18 |



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Huntersville, NC 28078
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## SAMPLE ANALYTE COUNT

Project: YAT AP-2- RADs
Pace Project No.: 92715049

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **92715049001** | **YAT-YGWC-27S** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| **92715049002** | **YAT-YGWC-27I** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| **92715049003** | **YAT-YGWC-28S** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| **92715049004** | **YAT-YGWC-28I** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| **92715049005** | **YAT-AP2-FD-1** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| **92715049006** | **YAT-AP2-EB-1** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| **92715049007** | **YAT-AP2-FB-1** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| **92715049008** | **YAT-YGWC-26S** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| **92715049009** | **YAT-YGWC-26I** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| **92715049010** | **YAT-YGWC-29IB** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |

PASI-PA = Pace Analytical Services - Greensburg



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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

## SUMMARY OF DETECTION

Project: YAT AP-2- RADs
Pace Project No.: 92715049

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **92715049001** | **YAT-YGWC-27S** | | | | | |
| EPA 9315 | Radium-226 | 0.224U ± 0.173 (0.307) C:89% T:NA | pCi/L | | 03/15/24 11:42 | |
| EPA 9320 | Radium-228 | 0.445U ± 0.415 (0.842) C:75% T:79% | pCi/L | | 03/11/24 16:43 | |
| Total Radium Calculation | Total Radium | 0.669U ± 0.588 (1.15) | pCi/L | | 03/18/24 11:21 | |
| **92715049002** | **YAT-YGWC-27I** | | | | | |
| EPA 9315 | Radium-226 | 2.54 ± 0.573 (0.307) C:94% T:NA | pCi/L | | 03/15/24 11:43 | |
| EPA 9320 | Radium-228 | 0.716 ± 0.400 (0.699) C:74% T:83% | pCi/L | | 03/11/24 16:43 | |
| Total Radium Calculation | Total Radium | 3.26 ± 0.973 (1.01) | pCi/L | | 03/18/24 11:21 | |
| **92715049003** | **YAT-YGWC-28S** | | | | | |
| EPA 9315 | Radium-226 | 0.236U ± 0.169 (0.296) C:95% T:NA | pCi/L | | 03/15/24 11:43 | |
| EPA 9320 | Radium-228 | 0.545U ± 0.368 (0.690) C:73% T:88% | pCi/L | | 03/11/24 16:43 | |
| Total Radium Calculation | Total Radium | 0.781U ± 0.537 (0.986) | pCi/L | | 03/18/24 11:21 | |
| **92715049004** | **YAT-YGWC-28I** | | | | | |
| EPA 9315 | Radium-226 | 0.103U ± 0.131 (0.276) C:97% T:NA | pCi/L | | 03/15/24 13:38 | |
| EPA 9320 | Radium-228 | 0.344U ± 0.366 (0.758) C:76% T:82% | pCi/L | | 03/11/24 16:43 | |
| Total Radium Calculation | Total Radium | 0.447U ± 0.497 (1.03) | pCi/L | | 03/18/24 11:21 | |

## REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
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## SUMMARY OF DETECTION

Project: YAT AP-2- RADs
Pace Project No.: 92715049

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **92715049005** | **YAT-AP2-FD-1** | | | | | |
| EPA 9315 | Radium-226 | 0.137U ± 0.163 (0.343) C:95% T:NA | pCi/L | | 03/15/24 11:43 | |
| EPA 9320 | Radium-228 | 0.928U ± 0.561 (1.06) C:75% T:81% | pCi/L | | 03/11/24 16:43 | |
| Total Radium Calculation | Total Radium | 1.07U ± 0.724 (1.40) | pCi/L | | 03/18/24 11:21 | |
| **92715049006** | **YAT-AP2-EB-1** | | | | | |
| EPA 9315 | Radium-226 | 0.105U ± 0.163 (0.362) C:76% T:NA | pCi/L | | 03/15/24 11:44 | |
| EPA 9320 | Radium-228 | 0.337U ± 0.519 (1.12) C:68% T:77% | pCi/L | | 03/11/24 16:43 | |
| Total Radium Calculation | Total Radium | 0.442U ± 0.682 (1.48) | pCi/L | | 03/18/24 11:21 | |
| **92715049007** | **YAT-AP2-FB-1** | | | | | |
| EPA 9315 | Radium-226 | 0.0311U ± 0.0992 (0.247) C:93% T:NA | pCi/L | | 03/15/24 11:59 | |
| EPA 9320 | Radium-228 | 0.539U ± 0.526 (1.09) C:71% T:85% | pCi/L | | 03/11/24 16:43 | |
| Total Radium Calculation | Total Radium | 0.570U ± 0.625 (1.34) | pCi/L | | 03/18/24 11:21 | |
| **92715049008** | **YAT-YGWC-26S** | | | | | |
| EPA 9315 | Radium-226 | 0.264U ± 0.183 (0.312) C:87% T:NA | pCi/L | | 03/15/24 11:44 | |
| EPA 9320 | Radium-228 | 0.0394U ± 0.403 (0.922) C:75% T:86% | pCi/L | | 03/12/24 12:55 | |
| Total Radium Calculation | Total Radium | 0.303U ± 0.586 (1.23) | pCi/L | | 03/18/24 11:21 | |

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## SUMMARY OF DETECTION

Project: YAT AP-2- RADs
Pace Project No.: 92715049

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **92715049009** | **YAT-YGWC-26I** | | | | | |
| EPA 9315 | Radium-226 | 0.196U ± 0.158 (0.283) C:87% T:NA | pCi/L | | 03/15/24 11:44 | |
| EPA 9320 | Radium-228 | 0.549U ± 0.438 (0.877) C:72% T:91% | pCi/L | | 03/12/24 12:55 | |
| Total Radium Calculation | Total Radium | 0.745U ± 0.596 (1.16) | pCi/L | | 03/18/24 11:21 | |
| **92715049010** | **YAT-YGWC-29IB** | | | | | |
| EPA 9315 | Radium-226 | 0.253U ± 0.174 (0.302) C:89% T:NA | pCi/L | | 03/15/24 11:44 | |
| EPA 9320 | Radium-228 | 0.618U ± 0.471 (0.934) C:73% T:87% | pCi/L | | 03/12/24 12:55 | |
| Total Radium Calculation | Total Radium | 0.871U ± 0.645 (1.24) | pCi/L | | 03/18/24 11:21 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

**Sample: YAT-YGWC-27S** **Lab ID: 92715049001** Collected: 02/21/24 09:40 Received: 02/22/24 09:03 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.224U ± 0.173 (0.307) C:89% T:NA** | pCi/L | 03/15/24 11:42 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.445U ± 0.415 (0.842) C:75% T:79%** | pCi/L | 03/11/24 16:43 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.669U ± 0.588 (1.15)** | pCi/L | 03/18/24 11:21 | 7440-14-4 | |



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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

**Sample: YAT-YGWC-27I** **Lab ID: 92715049002** Collected: 02/21/24 11:05 Received: 02/22/24 09:03 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **2.54 ± 0.573 (0.307) C:94% T:NA** | pCi/L | 03/15/24 11:43 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.716 ± 0.400 (0.699) C:74% T:83%** | pCi/L | 03/11/24 16:43 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **3.26 ± 0.973 (1.01)** | pCi/L | 03/18/24 11:21 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

**Sample: YAT-YGWC-28S** **Lab ID: 92715049003** Collected: 02/21/24 14:45 Received: 02/22/24 09:03 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.236U ± 0.169 (0.296) C:95% T:NA** | pCi/L | 03/15/24 11:43 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.545U ± 0.368 (0.690) C:73% T:88%** | pCi/L | 03/11/24 16:43 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.781U ± 0.537 (0.986)** | pCi/L | 03/18/24 11:21 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

**Sample: YAT-YGWC-28I** **Lab ID: 92715049004** Collected: 02/21/24 16:35 Received: 02/22/24 09:03 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.103U ± 0.131 (0.276) C:97% T:NA** | pCi/L | 03/15/24 13:38 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.344U ± 0.366 (0.758) C:76% T:82%** | pCi/L | 03/11/24 16:43 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.447U ± 0.497 (1.03)** | pCi/L | 03/18/24 11:21 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

**Sample: YAT-AP2-FD-1** **Lab ID: 92715049005** Collected: 02/21/24 00:00 Received: 02/22/24 09:03 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.137U ± 0.163 (0.343) C:95% T:NA** | pCi/L | 03/15/24 11:43 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.928U ± 0.561 (1.06) C:75% T:81%** | pCi/L | 03/11/24 16:43 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **1.07U ± 0.724 (1.40)** | pCi/L | 03/18/24 11:21 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

**Sample: YAT-AP2-EB-1** **Lab ID: 92715049006** Collected: 02/21/24 15:10 Received: 02/22/24 09:03 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.105U ± 0.163 (0.362) C:76% T:NA** | pCi/L | 03/15/24 11:44 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.337U ± 0.519 (1.12) C:68% T:77%** | pCi/L | 03/11/24 16:43 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.442U ± 0.682 (1.48)** | pCi/L | 03/18/24 11:21 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

**Sample: YAT-AP2-FB-1** **Lab ID: 92715049007** Collected: 02/21/24 15:00 Received: 02/22/24 09:03 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.0311U ± 0.0992 (0.247) C:93% T:NA** | pCi/L | 03/15/24 11:59 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.539U ± 0.526 (1.09) C:71% T:85%** | pCi/L | 03/11/24 16:43 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.570U ± 0.625 (1.34)** | pCi/L | 03/18/24 11:21 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

**Sample: YAT-YGWC-26S** **Lab ID: 92715049008** Collected: 02/22/24 10:15 Received: 02/23/24 09:18 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.264U ± 0.183 (0.312) C:87% T:NA** | pCi/L | 03/15/24 11:44 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.0394U ± 0.403 (0.922) C:75% T:86%** | pCi/L | 03/12/24 12:55 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.303U ± 0.586 (1.23)** | pCi/L | 03/18/24 11:21 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

**Sample: YAT-YGWC-26I** **Lab ID: 92715049009** Collected: 02/22/24 12:00 Received: 02/23/24 09:18 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.196U ± 0.158 (0.283) C:87% T:NA** | pCi/L | 03/15/24 11:44 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.549U ± 0.438 (0.877) C:72% T:91%** | pCi/L | 03/12/24 12:55 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.745U ± 0.596 (1.16)** | pCi/L | 03/18/24 11:21 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

**Sample: YAT-YGWC-29IB** **Lab ID: 92715049010** Collected: 02/22/24 14:10 Received: 02/23/24 09:18 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.253U ± 0.174 (0.302) C:89% T:NA** | pCi/L | 03/15/24 11:44 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.618U ± 0.471 (0.934) C:73% T:87%** | pCi/L | 03/12/24 12:55 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.871U ± 0.645 (1.24)** | pCi/L | 03/18/24 11:21 | 7440-14-4 | |

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## QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

QC Batch: 651836
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92715049008, 92715049009, 92715049010

METHOD BLANK: 3175611 Matrix: Water
Associated Lab Samples: 92715049008, 92715049009, 92715049010

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|---|---|---|---|---|
| Radium-228 | 0.173 ± 0.373 (0.826) C:73% T:85% | pCi/L | 03/12/24 12:53 | |

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## QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

QC Batch: 651515
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92715049001, 92715049002, 92715049003, 92715049004, 92715049005, 92715049006, 92715049007, 92715049008, 92715049009, 92715049010

METHOD BLANK: 3174171 Matrix: Water
Associated Lab Samples: 92715049001, 92715049002, 92715049003, 92715049004, 92715049005, 92715049006, 92715049007, 92715049008, 92715049009, 92715049010

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|---|---|---|---|---|
| Radium-226 | 0.0485 ± 0.125 (0.300) C:96% T:NA | pCi/L | 03/15/24 11:42 | |

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## QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

QC Batch: 651359 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92715049001, 92715049002, 92715049003, 92715049004, 92715049005, 92715049006, 92715049007

METHOD BLANK: 3173423 Matrix: Water
Associated Lab Samples: 92715049001, 92715049002, 92715049003, 92715049004, 92715049005, 92715049006, 92715049007

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|---|---|---|---|---|
| Radium-228 | 0.310 ± 0.405 (0.865) C:73% T:92% | pCi/L | 03/11/24 16:47 | |

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# QUALIFIERS

Project: YAT AP-2- RADs
Pace Project No.: 92715049

**DEFINITIONS**

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

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

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.



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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-2- RADs
Pace Project No.: 92715049

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **92715049001** | **YAT-YGWC-27S** | EPA 9315 | 651515 | | |
| **92715049002** | **YAT-YGWC-27I** | EPA 9315 | 651515 | | |
| **92715049003** | **YAT-YGWC-28S** | EPA 9315 | 651515 | | |
| **92715049004** | **YAT-YGWC-28I** | EPA 9315 | 651515 | | |
| **92715049005** | **YAT-AP2-FD-1** | EPA 9315 | 651515 | | |
| **92715049006** | **YAT-AP2-EB-1** | EPA 9315 | 651515 | | |
| **92715049007** | **YAT-AP2-FB-1** | EPA 9315 | 651515 | | |
| **92715049008** | **YAT-YGWC-26S** | EPA 9315 | 651515 | | |
| **92715049009** | **YAT-YGWC-26I** | EPA 9315 | 651515 | | |
| **92715049010** | **YAT-YGWC-29IB** | EPA 9315 | 651515 | | |
| **92715049001** | **YAT-YGWC-27S** | EPA 9320 | 651359 | | |
| **92715049002** | **YAT-YGWC-27I** | EPA 9320 | 651359 | | |
| **92715049003** | **YAT-YGWC-28S** | EPA 9320 | 651359 | | |
| **92715049004** | **YAT-YGWC-28I** | EPA 9320 | 651359 | | |
| **92715049005** | **YAT-AP2-FD-1** | EPA 9320 | 651359 | | |
| **92715049006** | **YAT-AP2-EB-1** | EPA 9320 | 651359 | | |
| **92715049007** | **YAT-AP2-FB-1** | EPA 9320 | 651359 | | |
| **92715049008** | **YAT-YGWC-26S** | EPA 9320 | 651836 | | |
| **92715049009** | **YAT-YGWC-26I** | EPA 9320 | 651836 | | |
| **92715049010** | **YAT-YGWC-29IB** | EPA 9320 | 651836 | | |
| **92715049001** | **YAT-YGWC-27S** | Total Radium Calculation | 655757 | | |
| **92715049002** | **YAT-YGWC-27I** | Total Radium Calculation | 655757 | | |
| **92715049003** | **YAT-YGWC-28S** | Total Radium Calculation | 655757 | | |
| **92715049004** | **YAT-YGWC-28I** | Total Radium Calculation | 655757 | | |
| **92715049005** | **YAT-AP2-FD-1** | Total Radium Calculation | 655757 | | |
| **92715049006** | **YAT-AP2-EB-1** | Total Radium Calculation | 655757 | | |
| **92715049007** | **YAT-AP2-FB-1** | Total Radium Calculation | 655757 | | |
| **92715049008** | **YAT-YGWC-26S** | Total Radium Calculation | 655757 | | |
| **92715049009** | **YAT-YGWC-26I** | Total Radium Calculation | 655757 | | |
| **92715049010** | **YAT-YGWC-29IB** | Total Radium Calculation | 655757 | | |



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

| Pace | DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt |
|---|---|
| | Effective Date: 12/01/2023 |

**Laboratory receiving samples:**

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

**Sample Condition Upon Receipt**

**Client Name:** Cox Road

**Project #:**

**WO# : 92715049**

92715049

**Courier:** ☐ Commercial ☑ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

**Custody Seal Present?** ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

**Date/Initials Person Examining Contents:** 7/12/24 JC

**Packing Material:** ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

**Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

**Thermometer:**

☑ IR Gun ID: 736 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

**Cooler Temp:** 2.2 **Correction Factor:** Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C

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

**Cooler Temp Corrected (°C):** 2.3

**USDA Regulated Soil** ( ☐ N/A, water sample)

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

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

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

**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:** _____

| Pace ANALYTICAL SERVICES | DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt |
|---|---|
| | Effective Date: 12/01/2023 |

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Project # WO#:92715049

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A – lab) | SP2T-250 mL Sterile Plastic (N/A – lab) | | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | |
| 2 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | |
| 3 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | |
| 4 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | |
| 5 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | |
| 6 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | |
| 7 | | 2 | 1 | | | X | | | | | | | | | | | | | | | | | | | X | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

## pH Adjustment Log for Preserved Samples

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

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

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

92715045

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-202451 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): | YAT AP-2 | Purchase Order # (if applicable): | GPCR2474-0002 |
| | | Quote #: | |

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers Plastic | Number & Type of Containers Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | Sample Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-YGWC-26S | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks |
| YAT-YGWC-26I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks |
| YAT-YGWC-27S | WG | G | 2/21/24 | 0940 | | | | 6 | | X | X | X | X | X | See Remarks 001 |
| YAT-YGWC-27I | WG | G | 2/21/24 | 1105 | | | | 6 | | X | X | X | X | X | See Remarks 002 |
| YAT-YGWC-28S | WG | G | 2/21/24 | 1445 | | | | 6 | | X | X | X | X | X | See Remarks 003 |
| YAT-YGWC-28I | WG | G | 2/21/24 | 1635 | | | | 6 | | X | X | X | X | X | See Remarks 004 |
| YAT-AP2-FD-1 | WG | G | 2/21/24 | — | | | | 6 | | X | X | X | X | X | See Remarks 005 |
| YAT-AP2-EB-1 | WG | G | 2/21/24 | 1510 | | | | 6 | | X | X | X | X | X | See Remarks 006 |
| YAT-AP2-FB-1 | WG | G | 2/21/24 | 1500 | | | | 6 | | X | X | X | X | X | See Remarks 007 |
| YAT-YGWC-29IB | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks |

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) -
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

| Relinquished by/Company: (Signature) | Date/Time | Received by/Company: (Signature) | Date/Time | Tracking Number: |
|---|---|---|---|---|
| | 2/22/24 0810 | | 2/22/24 0810 | |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Delivered by: [ ] In- Person [ ] Courier |
| Arcadis | 2/22/24 0903 | Pace | 2/22/24 0903 | [ ] FedEX [ ] UPS [ ] Other |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | |
| Pace | 2/22/24 1545 | | 2/22/24 1545 | |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Page: 1 of 1 |

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

| Pace ANALYTICAL SERVICES | DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt |
|---|---|
| | Effective Date: 12/01/2023 |

**Laboratory receiving samples:**
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

**Sample Condition Upon Receipt**

Client Name: GA Power

**Project #: WO#: 92715049**

PM: BV Due Date: 03/14/24
CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 2/23/24 CH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.3 Correction Factor: Add/Subtract (°C) -0.1

Cooler Temp Corrected (°C): 1.2

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

USDA Regulated Soil ( ☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

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:

| Pace ANALYTICAL SERVICES | DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt |
|---|---|
| | Effective Date: 12/01/2023 |

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

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

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

***Check all unpreserved Nitrates for chlorine

Project # **WO#: 92715049**

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (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) | BP1N | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | 2 | | | | |
| 2 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | 2 | | | | |
| 3 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | 2 | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| pH Adjustment Log for Preserved Samples | | | | | | |
|---|---|---|---|---|---|---|
| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
| | | | | | | |
| | | | | | | |
| | | | | | | |

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

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-202451 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): YAT AP-2 | | Purchase Order # (if applicable): | GPC82474-0002 |
| | | Quote #: | |
| Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET | | County / State origin of sample(s): | Georgia |

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [√] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40ml vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers Plastic | Number & Type of Containers Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/9320 | Alkalinity (SM2320B) | Sample Comment | Preservation non-conformance identified for sample |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-YGWC-26S | WG | G | 2/22/24 | 1015 | | | | 6 | | X | X | X | X | X | See Remarks UG | |
| YAT-YGWC-26I | WG | G | 2/22/24 | 1200 | | | | 6 | | X | X | X | X | X | See Remarks UG | |
| YAT-YGWC-27S | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWC-27I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWC-28S | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWC-28I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-AP2-FD-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-AP2-EB-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-AP2-FB-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWC-29IB | WG | G | 2/22/24 | 1410 | | | | 6 | | X | X | X | X | X | See Remarks DUP | |

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) -
Signature: (Arcadis) - David Prouty

Additional Instructions from Pace®:

| # Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C) |
|---|---|---|---|---|
| | | | | |

| | Date/Time | | Date/Time |
|---|---|---|---|
| Relinquished by/Company: (Signature) | 2/23/24 0800 | Received by/Company: (Signature) | 2/23/24 0800 |
| Relinquished by/Company: (Signature) ARCADIS | 2/23/24 0918 | Received by/Company: (Signature) Ryan Williams / Pace | 2/23/24 0918 |
| Relinquished by/Company: (Signature) Ryan Williams / Pace | 2/22/24 1307 | Received by/Company: (Signature) | 2/23/24 1307 |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: |

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

# Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

| | |
|---|---|
| Test: | Ra-228 |
| Analyst: | JJS1 |
| Date: | 3/5/2024 |
| Worklist: | 77864 |
| Matrix: | WT |

***Analyst Must Manually Enter All Fields Highlighted in Yellow.***

| Method Blank Assessment | |
|---|---|
| MB Sample ID | 3173423 |
| MB concentration: | 0.310 |
| M/B 2 Sigma CSU: | 0.405 |
| MB MDC: | 0.865 |
| MB Numerical Performance Indicator: | 1.50 |
| MB Status vs Numerical Indicator: | Pass |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | LCSD (Y or N)? | Y |
|---|---|---|
| | LCS77864 | LCSD77864 |
| Count Date: | 3/11/2024 | 1/0/1900 |
| Spike I.D.: | 23-043 | 23-043 |
| Decay Corrected Spike Concentration (pCi/mL): | 37.540 | 119275490.841 |
| Volume Used (mL): | 0.10 | 0.10 |
| Aliquot Volume (L, g, F): | 0.820 | 0.822 |
| Target Conc. (pCi/L, g, F): | 4.575 | 14511106.482 |
| Uncertainty (Calculated): | 0.224 | 711044.218 |
| Result (pCi/L, g, F): | 4.580 | #NUM! |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 1.069 | #NUM! |
| Numerical Performance Indicator: | 0.01 | #NUM! |
| Percent Recovery: | 100.11% | #NUM! |
| Status vs Numerical Indicator: | N/A | #NUM! |
| Status vs Recovery: | Pass | #NUM! |
| Upper % Recovery Limits: | 135% | #NUM! |
| Lower % Recovery Limits: | 60% | #NUM! |

| Duplicate Sample Assessment | | |
|---|---|---|
| Sample I.D.: | LCS77864 | Enter Duplicate sample IDs if other than LCS/LCSD in the space below. |
| Duplicate Sample I.D. | LCSD77864 | |
| Sample Result (pCi/L, g, F): | 4.580 | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 1.069 | |
| Sample Duplicate Result (pCi/L, g, F): | #NUM! | |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | #NUM! | |
| Are sample and/or duplicate results below RL? | NO | |
| Duplicate Numerical Performance Indicator: | #NUM! | |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | #NUM! | |
| Duplicate Status vs Numerical Indicator: | #NUM! | |
| Duplicate Status vs RPD: | #NUM! | |
| % RPD Limit: | #NUM! | |

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

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

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

**Comments:**

#NUM!
#NUM!

VAL
3/12/24

3/13/24

RE LCSD - pellet lost

# Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

| | |
|---|---|
| Test: | Ra-228 |
| Analyst: | ZPC |
| Date: | 3/6/2024 |
| Worklist: | 77912 |
| Matrix: | WT |

***Analyst Must Manually Enter All Fields Highlighted in Yellow.***

| Method Blank Assessment | |
|---|---|
| MB Sample ID | 3175611 |
| MB concentration: | 0.173 |
| M/B 2 Sigma CSU: | 0.373 |
| MB MDC: | 0.826 |
| MB Numerical Performance Indicator: | 0.91 |
| MB Status vs Numerical Indicator: | Pass |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | LCSD (Y or N)? | Y |
|---|---|---|
| | LCS77912 | LCSD77912 |
| Count Date: | 3/12/2024 | 3/12/2024 |
| Spike I.D.: | 23-043 | 23-043 |
| Decay Corrected Spike Concentration (pCi/mL): | 37.530 | 37.530 |
| Volume Used (mL): | 0.10 | 0.10 |
| Aliquot Volume (L, g, F): | 0.817 | 0.816 |
| Target Conc. (pCi/L, g, F): | 4.596 | 4.601 |
| Uncertainty (Calculated): | 0.225 | 0.225 |
| Result (pCi/L, g, F): | 3.126 | 3.675 |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 0.801 | 0.884 |
| Numerical Performance Indicator: | -3.46 | -1.99 |
| Percent Recovery: | 68.02% | 79.86% |
| Status vs Numerical Indicator: | N/A | N/A |
| Status vs Recovery: | Pass | Pass |
| Upper % Recovery Limits: | 135% | 135% |
| Lower % Recovery Limits: | 60% | 60% |

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

| Duplicate Sample Assessment | | |
|---|---|---|
| Sample I.D.: | LCS77912 | Enter Duplicate sample IDs if other than LCS/LCSD in the space below. |
| Duplicate Sample I.D. | LCSD77912 | |
| Sample Result (pCi/L, g, F): | 3.126 | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 0.801 | |
| Sample Duplicate Result (pCi/L, g, F): | 3.675 | |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 0.884 | |
| Are sample and/or duplicate results below RL? | NO | |
| Duplicate Numerical Performance Indicator: | -0.902 | |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | 16.01% | |
| Duplicate Status vs Numerical Indicator: | Pass | |
| Duplicate Status vs RPD: | Pass | |
| % RPD Limit: | 36% | |

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

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

**Comments:**

VAL
3/13/24

VAM 3/15/24

# Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

| | |
|---|---|
| Test: | Ra-226 |
| Analyst: | SLC |
| Date: | 3/11/2024 |
| Worklist: | 77884 |
| Matrix: | DW |

***Analyst Must Manually Enter All Fields Highlighted in Yellow.***

| Method Blank Assessment | |
|---|---|
| MB Sample ID | 3174171 |
| MB concentration: | 0.048 |
| M/B Counting Uncertainty: | 0.125 |
| MB MDC: | 0.300 |
| MB Numerical Performance Indicator: | 0.76 |
| MB Status vs Numerical Indicator: | N/A |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | LCSD (Y or N)? | Y |
|---|---|---|
| | LCS77884 | LCSD77884 |
| Count Date: | 3/15/2024 | 3/15/2024 |
| Spike I.D.: | 23-014 | 23-014 |
| Decay Corrected Spike Concentration (pCi/mL): | 25.025 | 25.025 |
| Volume Used (mL): | 0.10 | 0.10 |
| Aliquot Volume (L, g, F): | 0.505 | 0.509 |
| Target Conc. (pCi/L, g, F): | 4.955 | 4.918 |
| Uncertainty (Calculated): | 0.233 | 0.231 |
| Result (pCi/L, g, F): | 4.775 | 4.643 |
| LCS/LCSD Counting Uncertainty (pCi/L, g, F): | 0.580 | 0.596 |
| Numerical Performance Indicator: | -0.56 | -0.84 |
| Percent Recovery: | 96.37% | 94.40% |
| Status vs Numerical Indicator: | N/A | N/A |
| Status vs Recovery: | Pass | Pass |
| Upper % Recovery Limits: | 125% | 125% |
| Lower % Recovery Limits: | 75% | 75% |

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

| Duplicate Sample Assessment | | |
|---|---|---|
| Sample I.D.: | LCS77884 | 92715057008 |
| Duplicate Sample I.D. | LCSD77884 | 92715057008DUP |
| Sample Result (pCi/L, g, F): | 4.775 | 0.164 |
| Sample Result Counting Uncertainty (pCi/L, g, F): | 0.580 | 0.143 |
| Sample Duplicate Result (pCi/L, g, F): | 4.643 | 0.180 |
| Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): | 0.596 | 0.162 |
| Are sample and/or duplicate results below RL? | NO | See Below ## |
| Duplicate Numerical Performance Indicator: | 0.312 | -0.152 |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | 2.07% | 9.74% |
| Duplicate Status vs Numerical Indicator: | N/A | N/A |
| Duplicate Status vs RPD: | Pass | Pass |
| % RPD Limit: | 25% | 25% |

| 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): | | |
| Duplicate Numerical Performance Indicator: | | |
| (Based on the Percent Recoveries) MS/ MSD Duplicate RPD: | | |
| MS/ MSD Duplicate Status vs Numerical Indicator: | | |
| MS/ MSD Duplicate Status vs RPD: | | |
| % RPD Limit: | | |

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

**Comments:**

ET 3-18-24

VAM 3/18/24

# Upgradient Wells

Georgia Power Co. – Plant Yates

# Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92683124 and 92683132

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

Report #51400R
Review Level: Tier II
Project: 30143607.3B

# Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92683124 and 92683132 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

| Sample ID | Lab ID | Matrix | Sample Collection Date | Parent Sample | Analysis | | |
|---|---|---|---|---|---|---|---|
| | | | | | RAD | MET | GEN CHEM |
| YAT-YGWA-1I | 92683124001<br>92683132001 | Waster | 8/15/2023 | | X | X | X |
| YAT-YGWA-1D | 92683124002<br>92683132002 | Water | 8/15/2023 | | X | X | X |
| YAT-YGWA-2I | 92683124003<br>92683132003 | Water | 8/15/2023 | | X | X | X |
| YAT-YGWA-3D | 92683124004<br>92683132004 | Water | 8/15/2023 | | X | X | X |
| YAT-YGWA-4I | 92683124005<br>92683132005 | Water | 8/15/2023 | | X | X | X |
| YAT-YGWA-5I | 92683124006<br>92683132006 | Water | 8/15/2023 | | X | X | X |
| YAT-YGWA-5D | 92683124007<br>92683132007 | Water | 8/15/2023 | | X | X | X |
| YAT-YGWA-18S | 92683124008<br>92683132008 | Water | 8/15/2023 | | X | X | X |
| YAT-YGWA-18I | 92683124009<br>92683132009 | Water | 8/15/2023 | | X | X | X |
| YAT-YGWA-14S | 92683124010<br>92683132010 | Water | 8/15/2023 | | X | X | X |
| YAT-YGWA-47 | 92683124011<br>92683132011 | Water | 8/15/2023 | | X | X | X |
| YAT-GWA-2 | 92683124012<br>92683132012 | Water | 8/15/2023 | | X | X | X |

| Sample ID | Lab ID | Matrix | Sample Collection Date | Parent Sample | Analysis | | |
|---|---|---|---|---|---|---|---|
| | | | | | RAD | MET | GEN CHEM |
| YAT-YGWA-17S | 92683124013<br>92683132013 | Water | 8/15/2023 | | X | X | X |
| YAT-YGWA-20S | 92683124014<br>92683132014 | Water | 8/15/2023 | | X | X | X |
| YAT-YGWA-21I | 92683124015<br>92683132015 | Water | 8/15/2023 | | X | X | X |
| YAT-YGWA-39 | 92683124016<br>92683132016 | Water | 8/15/2023 | | X | X | X |
| YAT-YGWA-40 | 92683124017<br>92683132017 | Water | 8/15/2023 | | X | X | X |
| YAT-YGWA-30I | 92683124018<br>92683132018 | Water | 8/16/2023 | | X | X | X |
| YAT-YGWA-3I | 92683124019<br>92683132019 | Water | 8/16/2023 | | X | X | X |

**Notes:**

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

# Analytical Data Package Documentation

The table below evaluates the data package completeness.

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

**Note:**
QA = quality assurance

# Inorganic Analysis Introduction

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

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

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

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

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

# Metals Analyses

## 1. Holding Times

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

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

**Note:**
s.u. = standard units

All samples were analyzed within the specified holding times.

## 2. Blank Contamination

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

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

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

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

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

### 3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/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.

The MS/MSD analysis was performed using sample YAT-YGWA-4I in association with SW-846 6010D. The concentration of calcium in the unspiked sample was greater than four-times the spike concentration, hence, the SW-846 6010D MS/MSD sample results were not evaluated.

The MS/MSD analysis performed using sample YAT-YGWA-2I in association with SW-846 6020B analysis exhibited recoveries within the control limits.

MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 7470A analysis.

## 3.2 Laboratory Duplicate Analysis

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

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with SW-846 6010D and SW-846 6020B. The MS/MSD recoveries exhibited acceptable RPDs.

Laboratory duplicate or MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 7470A 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.

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

# 5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

# 6. System Performance and Overall Assessment

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

# Data Validation Checklist for Metals

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

**Notes:**

%R Percent recovery

RPD Relative percent difference

# General Chemistry Analyses

## 1. Holding Times

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

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

All samples were analyzed within the specified holding times.

## 2. Blank Contamination

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

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

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

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

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

### 3.1 MS/MSD Analysis

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

The MS/MSD analysis performed using samples YAT-YGWA-14S and YAT-YGWA-3I in association with anions analysis exhibited recoveries within the control limits.

## 3.2 Laboratory Duplicate Analysis

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

The laboratory duplicate analysis performed using sample YAT-YGWA-14S in association with TDS analysis exhibited an RPD within the control limit.

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

# 4. Field Duplicate Analysis

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

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

# 5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

# 6. System Performance and Overall Assessment

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

# Data Validation Checklist for General Chemistry

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

**Notes:**

%R Percent recovery

RPD Relative percent difference

# Radiological Analyses

## 1. Holding Times

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

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

**Note:**
s.u. = standard units

All samples were analyzed within the specified holding times.

## 2. Blank Contamination

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

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

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

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

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

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

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* |

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

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

Radium-228 was detected in the method blank at an activity greater than the uncertainty and MDC (batch 611586). The NAD was calculated for each sample. The Radium-228 result in sample YAT-YGWA-21I was qualified as "J" since the NAD was less than 1.96. No qualifiers were assigned to the Radium-228 results in samples YAT-YGWA-14S, YAT-YGWA-47, YAT-GWA-2, YAT-YGWA-17S, YAT-YGWA-20S, YAT-YGWA-39, and YAT-YGWA-40 since the activities were less than the MDC.

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

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

## 3.1 MS Analysis

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

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

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

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

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

Where:

x = measured concentration of the spiked sample.

$x_0$ = 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:

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

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

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

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

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

# 5. Tracer or Carrier

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

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

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

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

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

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

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

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

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

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

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

## 7. Isotope Identification

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

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

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

- YAT-YGWA-4I – Radium-228
- YAT-YGWA-5I – Radium-226 and total Radium
- YAT-YGWA-2I and YAT-YGWA-47 – Radium-228 and total Radium
- YAT-YGWA-1I, YAT-YGWA-1D, YAT-YGWA-18S, YAT-YGWA-18I, YAT-YGWA-14S, YAT-GWA-2, YAT-YGWA-17S, YAT-YGWA-20S, YAT-YGWA-39, YAT-YGWA-40, and YAT-YGWA-30I – Radium-226, Radium-228, and total Radium

# 8. System Performance and Overall Assessment

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

# Data Validation Checklist for Radiologicals

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

**Notes:**

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE:

DATE: October 2, 2023

PEER REVIEW: Joseph C. Houser

DATE: October 19, 2023

## Chain of Custody / Data Qualifier Summary Table

# CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
|---|---|---|---|---|---|
| Company: | GA Power | Report To: | SCS Contacts | Attention: | Southern Co. |
| Address: | Atlanta, GA | Copy To: | Arcadis Contacts | Company Name: | |
| | | Task No: | YAT-CCR-ASSMT-2023S2 | Address: | |
| Email To: | laucoker@southernco.com | Purchase Order #: | | Pace Quote: | |
| Phone: | 470.620.6176 Fax: | Project Name: | Plant Yates Pooled Upgradient | Pace Project Manager: | ~~Nicole D'Orio~~ Bonne |
| Requested Due Date: | Standard | Project Number: | | Pace Profile #: | ~~10840~~ 1165, 1 Vary |

Regulatory Agency: Georgia

| ITEM # | SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique) | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED START DATE | COLLECTED START TIME | COLLECTED END DATE | COLLECTED END TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | Analyses Test Y/N | App III/IV Metals +Ge,Hg,Tl | Cl, F, SO4 | TDS (2540C) | RAD (9315/9320) | App II (gypsum only) | Residual Chlorine (Y/N) | 7268 3124 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | YAT-YGWA-39 | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 2 | YAT-YGWA-40 | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 3 | YAT-YGWA-1I | WG | G | 8/15/23 | 1345 | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | 001 |
| 4 | YAT-YGWA-1D | WG | G | 8/9/23 | 1120 | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | 002 |
| 5 | YAT-YGWA-2I | WG | G | 8/15/23 | 1545 | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | 003 |
| 6 | YAT-YGWA-3I | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 7 | YAT-YGWA-3D | WG | G | 8/15/23 | 1710 | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | 004 |
| 8 | | | | | | -- | -- | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | -- | -- | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | -- | -- | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | -- | -- | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | -- | -- | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| Anions Suite 300.0 (Cl, F, Sulfate) | /Arcadis | 8/15/23 | 1805 | /Arcadis | 8/15/23 | 1805 | |
| App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V | /Arcadis | 8/14/23 | 0907 | Ryan William /Pace | 8/14/23 | 0907 | |
| App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg) | Ryan William /Pace | 8/14/23 | 1115 | | 8/14/23 | 1115 | |

| SAMPLER NAME AND SIGNATURE | | | | | |
|---|---|---|---|---|---|
| PRINT Name of SAMPLER: | (Arcadis) - | David Trout | | | |
| SIGNATURE of SAMPLER: | (Arcadis) | | DATE Signed: | 8/15/23 | |

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

# CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

| Section A – Required Client Information: | | Section B – Required Project Information: | | Section C – Invoice Information: | |
|---|---|---|---|---|---|
| Company: | GA Power | Report To: | SCS Contacts | Attention: | Southern Co. |
| Address: | Atlanta, GA | Copy To: | Arcadis Contacts | Company Name: | |
| | | Task No: | YAT-CCR-ASSMT-2023S2 | Address: | |
| Email To: | laucoker@southernco.com | Purchase Order #: | | Pace Quote: | |
| Phone: | 470.620.6176 Fax | Project Name: | Plant Yates Pooled Upgradient | Pace Project Manager: | ~~Nicole Oleen~~ Barnes |
| Requested Due Date: | Standard | Project Number: | | Pace Profile #: | 10840 |

Regulatory Agency: —

State / Location: Georgia

Requested Analysis Filtered (Y/N): —

| ITEM # | SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique) | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED START DATE | COLLECTED START TIME | COLLECTED END DATE | COLLECTED END TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | Analyses Test Y/N | App III/IV Metals | Cl, F, SO4 | TDS (2540C) | RAD 9315/8320 | App I (gypsum only) | Residual Chlorine (Y/N) | 92683124 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | YAT-YGWA-47 | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 2 | YAT-GWA-2 | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | X | | |
| 3 | YAT-YGWA-4I | WG | G | 8/15/23 | 1225 | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | 005 |
| 4 | YAT-YGWA-5I | WG | G | 8/15/23 | 1020 | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | 006 |
| 5 | YAT-YGWA-5D | WG | G | 8/15/23 | 1113 | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | 007 |
| 6 | YAT-YGWA-17S | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 7 | YAT-YGWA-18S | WG | G | 8/15/23 | 1455 | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | 008 |
| 8 | YAT-YGWA-18I | WG | G | 8/15/23 | 1540 | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | 009 |
| 9 | YAT-YGWA-20S | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 10 | YAT-YGWA-21I | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 11 | YAT-YGWA-30I | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 12 | YAT-YGWA-14S | WG | G | 8/15/23 | 1730 | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | 010 |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| Anions Suite 300.0 (Cl, F, Sulfate) | /Arcadis | 8/16/23 | 0755 | | 8/16/23 | 0755 | |
| App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V | Arcadis | 8/16/23 | 0901 | Ryan Williams / Pace | 8/16/23 | 0907 | |
| App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg) | Ryan Williams / Pace | 8/16/23 | 1115 | | 8/16/23 | 1115 | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lapsevynski

SIGNATURE of SAMPLER: DATE Signed: 8/16/23

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

# CHAIN-OF-CUSTODY / Analytical Request Document

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Page : | Of |

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| Email To: | laucoker@southernco.com | Purchase Order #: | | Pace Quote: | |
| Phone: | 470.620.6176 Fax | Project Name: | Plant Yates Pooled Upgradient | Pace Project Manager: | ~~Nicole D'Oleo~~ Brooke Hanna |
| Requested Due Date: | Standard | Project Number: | | Pace Profile #: | 10840 |

Regulatory Agency: | State / Location: Georgia

Requested Analysis Filtered (Y/N)

| ITEM # | SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique) | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED START DATE | COLLECTED START TIME | COLLECTED END DATE | COLLECTED END TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | Analysis Test Y/N | App III/IV Metals + Ca + Na + K | Cl, F, SO4 | TDS (2540C) | RAD 9315/9320 | App I / II (gypsum only) | Residual Chlorine (Y/N) | 92683124 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | YAT-YGWA-47 | WG | G | 8/15/23 | 0943 | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | 011 |
| 2 | YAT-GWA-2 | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | X | | |
| 3 | YAT-YGWA-4I | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 4 | YAT-YGWA-5I | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 5 | YAT-YGWA-5D | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 6 | YAT-YGWA-17S | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 7 | YAT-YGWA-18S | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 8 | YAT-YGWA-18I | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 9 | YAT-YGWA-20S | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 10 | YAT-YGWA-21I | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 11 | YAT-YGWA-30I | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 12 | YAT-YGWA-14S | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| Anions Suite 300.0 (Cl, F, Sulfate) | Mark Chest / Arcadis | 8/16/23 | 0907 | Ryan Williams / Pace | 8/16/23 | 0907 | |
| App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V | Ryan Williams / Pace | 8/16/23 | 1115 | | 8/16/23 | 1115 | |
| App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). | | | | | | | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chest

SIGNATURE of SAMPLER: [signature]

DATE Signed: 8/16/23

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

# CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
|---|---|---|---|---|---|
| Company: | GA Power | Report To: | SCS Contacts | Attention: | Southern Co. |
| Address: | Atlanta, GA | Copy To: | Arcadis Contacts | Company Name: | |
| | | Task No: | YAT-CCR-ASSMT-2023S2 | Address: | |
| Email To: | lgucoker@southernco.com | Purchase Order #: | | Pace Quote: | |
| Phone: | 470.620.6176 Fax | Project Name: | Plant Yates Pooled Upgradient | Pace Project Manager: | Nicole D'Oleo |
| Requested Due Date: | Standard | Project Number: | | Pace Profile #: | 10840 |

Regulatory Agency: Georgia

Requested Analysis Filtered (Y/N)

| ITEM # | SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique) | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED START DATE | COLLECTED START TIME | COLLECTED END DATE | COLLECTED END TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | Analysis Test Y/N | App III/IV Metals + Cl, NO3, F | Cl, F, SO4 | TDS (2540C) | RAD 9315/9320 | App I / II (gypsum only) | Residual Chlorine (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | YAT-YGWA-47 | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | |
| 2 | YAT-GWA-2 | WG | G | 8/15/23 | 1020 | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | X | |
| 3 | YAT-YGWA-4I | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | |
| 4 | YAT-YGWA-5I | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | |
| 5 | YAT-YGWA-5D | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | |
| 6 | YAT-YGWA-17S | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | |
| 7 | YAT-YGWA-18S | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | |
| 8 | YAT-YGWA-18I | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | |
| 9 | YAT-YGWA-20S | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | |
| 10 | YAT-YGWA-21I | WG | G | | | -- | -- | | 8 | 2 | | 4 | | | | | | | X | X | X | X | | |
| 11 | YAT-YGWA-30I | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | |
| 12 | YAT-YGWA-14S | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | |

92683124

-012

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| Anions Suite 300.0 (Cl, F, Sulfate) | /Arcadis | 8/16/23 | 0900 | | 8/16/23 | 0800 | |
| App III Metals: Boron 6020B, Ca 6010D; App III 6020B: Zn, Ag, Ni, V | | 8/16/23 | 0907 | | 8/16/23 | 0907 | |
| App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). | | 8/16/23 | 1115 | | 8/16/23 | 1115 | |

| SAMPLER NAME AND SIGNATURE | | | TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|---|---|---|
| PRINT Name of SAMPLER: | Luke Swanson | | | | | |
| SIGNATURE of SAMPLER: | | DATE Signed: 8/15/23 | | | | |

# CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 2

| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
|---|---|---|---|---|---|
| Company: | GA Power | Report To: | SCS Contacts | Attention: | Southern Co. |
| Address: | Atlanta, GA | Copy To: | Arcadis Contacts | Company Name: | |
| | | Task No: | YAT-CCR-ASSMT-2023S2 | Address: | |
| Email To: | jaucoker@southernco.com | Purchase Order #: | | Pace Quote: | |
| Phone: | 470.620.6176 Fax | Project Name: | Plant Yates Pooled Upgradient | Pace Project Manager: | ~~Nicole DiCiero~~ Brian Jang |
| Requested Due Date: | Standard | Project Number: | | Pace Profile #: | 10840 |

Regulatory Agency: Georgia

Requested Analysis Filtered (Y/N)

| ITEM # | SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique) | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED START DATE | COLLECTED START TIME | COLLECTED END DATE | COLLECTED END TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | Analysis Test Y/N | App III/IV Metals + Sb+As+Ba+Be | Cl, F, SO4 | TDS (2540C) | RAD 9315/9320 | App I / II (gypsum only) | Residual Chlorine (Y/N) | 92683124 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | YAT-YGWA-47 | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 2 | YAT-GWA-2 | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | X | | |
| 3 | YAT-YGWA-4I | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 4 | YAT-YGWA-5I | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 5 | YAT-YGWA-5D | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 6 | YAT-YGWA-17S | WG | G | 8/15 | 1450 | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | 013 |
| 7 | YAT-YGWA-18S | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 8 | YAT-YGWA-18I | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 9 | YAT-YGWA-20S | WG | G | 8/15 | 1225 | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | 014 |
| 10 | YAT-YGWA-21I | WG | G | 8/15 | 1035 | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | 015 |
| 11 | YAT-YGWA-30I | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 12 | YAT-YGWA-14S | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| Anions Suite 300.0 (Cl, F, Sulfate) | /Arcadis | 8/15/23 | 1805 | /Arcadis | 8/15/23 | 1805 | |
| App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V | Arcadis | 8/16/23 | 0907 | Ryan Williams/Pace | 8/16/23 | 0907 | |
| App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). | Ryan Williams/Pace | 8/16/23 | 1115 | | 8/16/23 | 1115 | |

| SAMPLER NAME AND SIGNATURE | | | TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|---|---|---|
| PRINT Name of SAMPLER: | Jessica Ware | | | | | |
| SIGNATURE of SAMPLER: | | DATE Signed: 8/15/23 | | | | |

# CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 2 Of 2

| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
|---|---|---|---|---|---|
| Company: | GA Power | Report To: | SCS Contacts | Attention: | Southern Co. |
| Address: | Atlanta, GA | Copy To: | Arcadis Contacts | Company Name: | |
| | | Task No: | YAT-CCR-ASSMT-202392 | Address: | |
| Email To: | laucoker@southernco.com | Purchase Order #: | | Pace Quote: | |
| Phone: | 470.620.6176 Fax | Project Name: | Plant Yates Pooled Upgradient | Pace Project Manager: | ~~Nicole D'Olen~~ Barnes |
| Requested Due Date: | Standard | Project Number: | | Pace Profile #: | 10840 |

Regulatory Agency: —

State / Location: Georgia

Requested Analysis Filtered (Y/N)

| ITEM # | SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique) | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED START DATE | COLLECTED START TIME | COLLECTED END DATE | COLLECTED END TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | Analysis Test Y/N | App III/IV Metals-See NOTE | Cl, F, SO4 | TDS (2540C) | RAD 9315/9320 | App I / II (gypsum only) | Residual Chlorine (Y/N) | 92683124 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | YAT-YGWA-39 | WG | G | 8/15 | 1611 | – | – | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | 016 |
| 2 | YAT-YGWA-40 | WG | G | 8/15 | 1720 | – | – | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | 017 |
| 3 | YAT-YGWA-1I | WG | G | | | – | – | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 4 | YAT-YGWA-1D | WG | G | | | – | – | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 5 | YAT-YGWA-2I | WG | G | | | – | – | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 6 | YAT-YGWA-3I | WG | G | | | – | – | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 7 | YAT-YGWA-3D | WG | G | | | – | – | | 6 | 2 | | 4 | | | | | | | X | X | X | X | | | |
| 8 | | | | | | – | – | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | – | – | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | – | – | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | – | – | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | – | – | | | | | | | | | | | | | | | | | | |

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| Anions Suite 300.0 (Cl, F, Sulfate) | /Arcadis | 8/15/23 | 1805 | /Arcadis | 8/15/23 | 1805 | |
| App III Metals: Boron 6020B, Ca 6010D; App IV 6020B: Zn, Ag, Ni, V | /Arcadis | 8/16/23 | 0907 | Ryan Williams / Pace | 8/16/23 | 0907 | |
| App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se); 7040A: Mercury (Hg) | Ryan Williams / Pace | 8/16/23 | 1115 | | 8/16/23 | 1115 | |

| SAMPLER NAME AND SIGNATURE | | | TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|---|---|---|
| PRINT Name of SAMPLER: | (Arcadis) Jessica Ware | | | | | |
| SIGNATURE of SAMPLER: | (Arcadis) | DATE Signed: 8/15/23 | | | | |

# CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 2

| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
|---|---|---|---|---|---|
| Company: | GA Power | Report To: | SCS Contacts | Attention: | Southern Co. |
| Address: | Atlanta, GA | Copy To: | Arcadis Contacts | Company Name: | |
| | | Task No: | YAT-CCR-ASSMT-202392 | Address: | |
| Email To: | tauppken@southernco.com | Purchase Order #: | | Pace Quote: | |
| Phone: | 470.620.6176 Fax | Project Name: | Plant Yates Pooled Upgradient | Pace Project Manager: | ~~Nicole D'Otto~~ Brent Vary |
| Requested Due Date: | Standard | Project Number: | | Pace Profile #: | ~~10840~~ |

Pace Analytical Services — Georgia

| ITEM # | SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique) | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED START DATE | COLLECTED START TIME | COLLECTED END DATE | COLLECTED END TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | App III/IV Metals +Boron+Li | Cl, F, SO4 | TDS (2540C) | RAD 9315/9320 | App I / II (gypsum only) | Residual Chlorine (Y/N) | 92683124 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | YAT-YGWA-4I | WG | G | | | – | – | | 6 | 2 | | 4 | | | | | | X | X | X | X | | | |
| 2 | YAT-GWA-2 | WG | G | | | – | – | | 6 | 2 | | 4 | | | | | | X | X | X | X | X | | |
| 3 | YAT-YGWA-4I | WG | G | | | – | – | | 6 | 2 | | 4 | | | | | | X | X | X | X | | | |
| 4 | YAT-YGWA-5I | WG | G | | | – | – | | 6 | 2 | | 4 | | | | | | X | X | X | X | | | |
| 5 | YAT-YGWA-5D | WG | G | | | – | – | | 6 | 2 | | 4 | | | | | | X | X | X | X | | | |
| 6 | YAT-YGWA-17S | WG | G | | | – | – | | 6 | 2 | | 4 | | | | | | X | X | X | X | | | |
| 7 | YAT-YGWA-18S | WG | G | | | – | – | | 6 | 2 | | 4 | | | | | | X | X | X | X | | | |
| 8 | YAT-YGWA-18I | WG | G | | | – | – | | 6 | 2 | | 4 | | | | | | X | X | X | X | | | |
| 9 | YAT-YGWA-20S | WG | G | | | – | – | | 6 | 2 | | 4 | | | | | | X | X | X | X | | | |
| 10 | YAT-YGWA-21I | WG | G | | | – | – | | 6 | 2 | | 4 | | | | | | X | X | X | X | | | |
| 11 | YAT-YGWA-30I | WG | G | 8/14/23 | 1220 | – | – | | 6 | 2 | | 4 | | | | | | X | X | X | X | | | 018 |
| 12 | YAT-YGWA-14S | WG | G | | | – | – | | 6 | 2 | | 4 | | | | | | X | X | X | X | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Anions Suite 300.0 (Cl, F, Sulfate) | Kevin Pierce /Arcadis | 8/17/23 | 0833 | Michael Tarver /Pace | 8/17/23 | 0825 | |
| App III Metals: Boron 6020B, Ca 6010D; App IV 6020B: Zn, Ag, Ni, V | Brent Vary /Arcadis | 8/17/23 | | Ryan William /Pace | 8/17/23 | 0955 | |
| App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg) | Ryan William /Pace | 8/17/23 | 1254 | | 8-17 | 1254 | |

PRINT Name of SAMPLER: David Evans

SIGNATURE of SAMPLER: David Evans DATE Signed: 8/16/23

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

# CHAIN-OF-CUSTODY / Analytical Request Document

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



| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
|---|---|---|---|---|---|
| Company: | GA Power | Report To: | SCS Contacts | Attention: | Southern Co. |
| Address: | Atlanta, GA | Copy To: | Arcadis Contacts | Company Name: | |
| | | Task No: | YAT-CCR-ASSMT-202382 | Address: | |
| Email To: | jauonker@southernco.com | Purchase Order #: | | Pace Quote: | |
| Phone: | 470.620.6176 Fax | Project Name: | Plant Yates Pooled Upgradient | Pace Project Manager: | Nicole DiGiae |
| Requested Due Date: | Standard | Project Number: | | Pace Profile #: | 10840 |

State / Location: Georgia

| ITEM # | SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique) | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED START DATE | COLLECTED START TIME | COLLECTED END DATE | COLLECTED END TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | App III/IV Metals +Ca+Mg+K | Cl, F, SO4 | TDS (2540C) | RAD 9315/9320 | App I / II (gypsum only) | Residual Chlorine (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS | | | | | | | | | | | | | | | | | | | | | |
| | YAT-YGWA-39 | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | X | X | X | X | | |
| | YAT-YGWA-40 | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | X | X | X | X | | |
| | YAT-YGWA-1I | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | X | X | X | X | | |
| | YAT-YGWA-1D | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | X | X | X | X | | |
| | YAT-YGWA-2I | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | X | X | X | X | | |
| | YAT-YGWA-3I | WG | G | 8/16/23 | 1050 | -- | -- | | 6 | 2 | | 4 | | | | | | X | X | X | X | | 009 |
| | YAT-YGWA-3D | WG | G | | | -- | -- | | 6 | 2 | | 4 | | | | | | X | X | X | X | | |
| | | | | | | -- | -- | | | | | | | | | | | | | | | | |
| | | | | | | -- | -- | | | | | | | | | | | | | | | | |
| | | | | | | -- | -- | | | | | | | | | | | | | | | | |
| | | | | | | -- | -- | | | | | | | | | | | | | | | | |
| | | | | | | -- | -- | | | | | | | | | | | | | | | | |

92683124

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Anions Suite 300.0 (Cl, F, Sulfate) | | Arcadis | 8/17/23 | 0833 | | Arcadis | 8/17/23 | 0832 | | | |
| App III Metals: Boron 6020B, Ca 6010D; App III 6020B: Zn, Ag, Ni, V | | | 8/17/23 | | | | 8/17/23 | 0955 | | | |
| App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg) | | | 8/17/23 | 1254 | | | 8/17 | 1254 | | | |

| PRINT Name of SAMPLER: | (Arcadis) David Prouty | | TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|---|---|---|
| SIGNATURE of SAMPLER: | (Arcadis) | DATE Signed: 8/16/23 | | | | |

| SDG | Sample ID | Method | Analyte | Result | Units | Validation Qualifier | Reason for Validation Qualifier |
|---|---|---|---|---|---|---|---|
| 92683124 | No qualifiers assigned | | | | | | |
| 92683132 | YAT-YGWA-21I | SW846 9320 | Radium-228 | 1.07 +/- 0.492 | pCi/L | J | Blank contamination |

**Abbreviations:**

pCi/L = picoCuries per liter

**Qualifiers:**

J = estimated result

**Pace Analytical Services, LLC**
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 11, 2024

Lauren Hartley
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between February 21, 2024 and February 24, 2024. 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 - Peachtree Corners, GA

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis



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# CERTIFICATIONS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Pace Analytical Services Asheville**
2225 Riverside Drive, Asheville, NC  28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

**Pace Analytical Services Peachtree Corners**
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **92714723001** | **YAT-YGWA-47** | Water | 02/20/24 10:30 | 02/21/24 15:12 |
| **92714723002** | **YAT-GWA-2** | Water | 02/20/24 11:50 | 02/21/24 15:12 |
| **92714723003** | **YAT-YGWA-4I** | Water | 02/20/24 11:10 | 02/21/24 15:12 |
| **92714723004** | **YAT-YGWA-5I** | Water | 02/20/24 12:18 | 02/21/24 15:12 |
| **92714723005** | **YAT-YGWA-5D** | Water | 02/20/24 13:25 | 02/21/24 15:12 |
| **92714723006** | **YAT-YGWA-20S** | Water | 02/20/24 14:40 | 02/21/24 15:12 |
| **92714723007** | **YAT-YGWA-21I** | Water | 02/20/24 16:38 | 02/21/24 15:12 |
| **92714723008** | **YAT-YGWA-17S** | Water | 02/20/24 10:37 | 02/21/24 15:12 |
| **92714723010** | **YAT-YGWA-18I** | Water | 02/20/24 12:48 | 02/21/24 15:12 |
| **92714723011** | **YAT-UGRD-EB-1** | Water | 02/20/24 17:15 | 02/21/24 15:12 |
| **92714723012** | **YAT-UGRD-FB-1** | Water | 02/20/24 15:35 | 02/21/24 15:12 |
| **92714723013** | **YAT-UGRD-EB-2** | Water | 02/20/24 15:55 | 02/21/24 15:12 |
| **92714723014** | **YAT-UGRD-FB-2** | Water | 02/20/24 17:00 | 02/21/24 15:12 |
| **92714723015** | **YAT-YGWA-30I** | Water | 02/20/24 16:25 | 02/21/24 15:12 |
| **92714723016** | **YAT-YGWA-3I** | Water | 02/20/24 13:50 | 02/21/24 15:12 |
| **92714723017** | **YAT-YGWA-3D** | Water | 02/20/24 11:35 | 02/21/24 15:12 |
| **92714723019** | **YAT-YGWA-39** | Water | 02/20/24 13:58 | 02/21/24 15:12 |
| **92714723020** | **YAT-YGWA-40** | Water | 02/20/24 15:10 | 02/21/24 15:12 |
| **92714723021** | **YAT-YGWA-1I** | Water | 02/20/24 12:02 | 02/21/24 15:12 |
| **92714723022** | **YAT-YGWA-1D** | Water | 02/20/24 13:24 | 02/21/24 15:12 |
| **92714723023** | **YAT-YGWA-2I** | Water | 02/20/24 16:02 | 02/21/24 15:12 |
| **92714723024** | **YAT-YGWA-14S** | Water | 02/23/24 11:00 | 02/24/24 11:33 |
| **92714723025** | **YAT-YGWA-18S** | Water | 02/23/24 09:25 | 02/24/24 11:33 |
| **92714723026** | **YAT-UGRD-FD-1** | Water | 02/23/24 00:00 | 02/24/24 11:33 |
| **92714723027** | **YAT-UGRD-FD-2** | Water | 02/23/24 00:00 | 02/24/24 11:33 |



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## SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---|---|---|---|---|
| **92714723001** | **YAT-YGWA-47** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| **92714723002** | **YAT-GWA-2** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 18 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| **92714723003** | **YAT-YGWA-4I** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| **92714723004** | **YAT-YGWA-5I** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| **92714723005** | **YAT-YGWA-5D** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| **92714723006** | **YAT-YGWA-20S** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| **92714723007** | **YAT-YGWA-21I** | EPA 6010D | DRB | 4 |

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## SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---|---|---|---|---|
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| **92714723008** | **YAT-YGWA-17S** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| **92714723010** | **YAT-YGWA-18I** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| **92714723011** | **YAT-UGRD-EB-1** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| **92714723012** | **YAT-UGRD-FB-1** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| **92714723013** | **YAT-UGRD-EB-2** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| **92714723014** | **YAT-UGRD-FB-2** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |



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## SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---|---|---|---|---|
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| **92714723015** | **YAT-YGWA-30I** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| **92714723016** | **YAT-YGWA-3I** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| **92714723017** | **YAT-YGWA-3D** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| **92714723019** | **YAT-YGWA-39** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| **92714723020** | **YAT-YGWA-40** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| **92714723021** | **YAT-YGWA-1I** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |

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## SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---|---|---|---|---|
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| **92714723022** | **YAT-YGWA-1D** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| **92714723023** | **YAT-YGWA-2I** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| **92714723024** | **YAT-YGWA-14S** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 2540C-2015 | JMH1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| **92714723025** | **YAT-YGWA-18S** | EPA 6010D | AJM, DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 2540C-2015 | JMH1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| **92714723026** | **YAT-UGRD-FD-1** | EPA 6010D | AJM, DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 2540C-2015 | JMH1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| **92714723027** | **YAT-UGRD-FD-2** | EPA 6010D | DRB | 4 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2320B-2011 | SMS | 3 |

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## SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---|---|---|---|---|
| | | SM 2540C-2015 | JMH1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |

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



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## SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **92714723001** | **YAT-YGWA-47** | | | | | |
| EPA 6010D | Potassium | 4.1 | mg/L | 0.50 | 03/01/24 19:41 | |
| EPA 6010D | Sodium | 12.3 | mg/L | 1.0 | 03/01/24 19:41 | |
| EPA 6010D | Calcium | 10.3 | mg/L | 1.0 | 03/01/24 19:41 | |
| EPA 6010D | Magnesium | 10.9 | mg/L | 0.050 | 03/01/24 19:41 | |
| EPA 6020B | Barium | 0.031 | mg/L | 0.0050 | 03/01/24 15:53 | |
| EPA 6020B | Boron | 0.023J | mg/L | 0.040 | 03/01/24 15:53 | |
| EPA 6020B | Cobalt | 0.0011J | mg/L | 0.0050 | 03/01/24 15:53 | |
| EPA 6020B | Lithium | 0.0036J | mg/L | 0.030 | 03/01/24 15:53 | |
| SM 2540C-2015 | Total Dissolved Solids | 159 | mg/L | 25.0 | 02/26/24 14:45 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 36.4 | mg/L | 5.0 | 02/23/24 17:28 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 36.4 | mg/L | 5.0 | 02/23/24 17:28 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 3.2 | mg/L | 1.0 | 02/23/24 15:14 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.073J | mg/L | 0.10 | 02/23/24 15:14 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 51.0 | mg/L | 1.0 | 02/23/24 15:14 | |
| **92714723002** | **YAT-GWA-2** | | | | | |
| EPA 6010D | Potassium | 9.9 | mg/L | 0.50 | 03/01/24 19:46 | |
| EPA 6010D | Sodium | 8.2 | mg/L | 1.0 | 03/01/24 19:46 | |
| EPA 6010D | Calcium | 22.8 | mg/L | 1.0 | 03/01/24 19:46 | |
| EPA 6010D | Magnesium | 19.8 | mg/L | 0.050 | 03/01/24 19:46 | |
| EPA 6020B | Antimony | 0.0026J | mg/L | 0.0030 | 03/01/24 16:10 | |
| EPA 6020B | Arsenic | 0.0015J | mg/L | 0.0050 | 03/01/24 16:10 | |
| EPA 6020B | Barium | 0.035 | mg/L | 0.0050 | 03/01/24 16:10 | |
| EPA 6020B | Boron | 0.017J | mg/L | 0.040 | 03/01/24 16:10 | |
| EPA 6020B | Cobalt | 0.023 | mg/L | 0.0050 | 03/01/24 16:10 | |
| EPA 6020B | Copper | 0.00067J | mg/L | 0.0050 | 03/01/24 16:10 | |
| EPA 6020B | Lithium | 0.0024J | mg/L | 0.030 | 03/01/24 16:10 | |
| EPA 6020B | Nickel | 0.010 | mg/L | 0.0050 | 03/01/24 16:10 | |
| EPA 6020B | Zinc | 0.0058J | mg/L | 0.010 | 03/01/24 16:10 | |
| SM 2540C-2015 | Total Dissolved Solids | 214 | mg/L | 25.0 | 02/26/24 15:45 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 73.5 | mg/L | 5.0 | 02/23/24 17:47 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 73.5 | mg/L | 5.0 | 02/23/24 17:47 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 6.1 | mg/L | 1.0 | 02/23/24 15:29 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.094J | mg/L | 0.10 | 02/23/24 15:29 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 75.0 | mg/L | 1.0 | 02/23/24 15:29 | |
| **92714723003** | **YAT-YGWA-4I** | | | | | |
| EPA 6010D | Potassium | 4.0 | mg/L | 0.50 | 03/01/24 19:49 | |
| EPA 6010D | Sodium | 10.1 | mg/L | 1.0 | 03/01/24 19:49 | |
| EPA 6010D | Calcium | 9.9 | mg/L | 1.0 | 03/01/24 19:49 | |
| EPA 6010D | Magnesium | 5.5 | mg/L | 0.050 | 03/01/24 19:49 | |
| EPA 6020B | Antimony | 0.00061J | mg/L | 0.0030 | 03/01/24 16:14 | |
| EPA 6020B | Barium | 0.014 | mg/L | 0.0050 | 03/01/24 16:14 | |
| EPA 6020B | Lithium | 0.014J | mg/L | 0.030 | 03/01/24 16:14 | |
| SM 2540C-2015 | Total Dissolved Solids | 140 | mg/L | 25.0 | 02/26/24 15:45 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 56.0 | mg/L | 5.0 | 02/23/24 18:50 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 56.0 | mg/L | 5.0 | 02/23/24 18:50 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 4.6 | mg/L | 1.0 | 02/23/24 15:44 | |

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## SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **92714723003** | **YAT-YGWA-4I** | | | | | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.059J | mg/L | 0.10 | 02/23/24 15:44 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 8.5 | mg/L | 1.0 | 02/23/24 15:44 | |
| **92714723004** | **YAT-YGWA-5I** | | | | | |
| EPA 6010D | Potassium | 1.5 | mg/L | 0.50 | 03/01/24 19:57 | |
| EPA 6010D | Sodium | 10.5 | mg/L | 1.0 | 03/01/24 19:57 | |
| EPA 6010D | Calcium | 2.7 | mg/L | 1.0 | 03/01/24 19:57 | |
| EPA 6010D | Magnesium | 2.7 | mg/L | 0.050 | 03/01/24 19:57 | |
| EPA 6020B | Barium | 0.019 | mg/L | 0.0050 | 03/01/24 16:18 | |
| EPA 6020B | Lithium | 0.0033J | mg/L | 0.030 | 03/01/24 16:18 | |
| SM 2540C-2015 | Total Dissolved Solids | 137 | mg/L | 25.0 | 02/26/24 15:45 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 25.3 | mg/L | 5.0 | 02/23/24 18:58 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 25.3 | mg/L | 5.0 | 02/23/24 18:58 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 4.8 | mg/L | 1.0 | 02/23/24 15:59 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 2.5 | mg/L | 1.0 | 02/23/24 15:59 | |
| **92714723005** | **YAT-YGWA-5D** | | | | | |
| EPA 6010D | Potassium | 3.5 | mg/L | 0.50 | 03/01/24 20:00 | |
| EPA 6010D | Sodium | 9.5 | mg/L | 1.0 | 03/01/24 20:00 | |
| EPA 6010D | Calcium | 27.2 | mg/L | 1.0 | 03/01/24 20:00 | |
| EPA 6010D | Magnesium | 4.5 | mg/L | 0.050 | 03/01/24 20:00 | |
| EPA 6020B | Arsenic | 0.0030J | mg/L | 0.0050 | 03/01/24 16:22 | |
| EPA 6020B | Barium | 0.0078 | mg/L | 0.0050 | 03/01/24 16:22 | |
| EPA 6020B | Lithium | 0.0056J | mg/L | 0.030 | 03/01/24 16:22 | |
| EPA 6020B | Molybdenum | 0.0010J | mg/L | 0.010 | 03/01/24 16:22 | |
| SM 2540C-2015 | Total Dissolved Solids | 639 | mg/L | 25.0 | 02/26/24 15:46 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 103 | mg/L | 5.0 | 02/23/24 19:04 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 103 | mg/L | 5.0 | 02/23/24 19:04 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 3.2 | mg/L | 1.0 | 02/23/24 16:14 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.076J | mg/L | 0.10 | 02/23/24 16:14 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 5.1 | mg/L | 1.0 | 02/23/24 16:14 | |
| **92714723006** | **YAT-YGWA-20S** | | | | | |
| EPA 6010D | Potassium | 0.51 | mg/L | 0.50 | 03/01/24 20:02 | |
| EPA 6010D | Sodium | 9.2 | mg/L | 1.0 | 03/01/24 20:02 | |
| EPA 6010D | Calcium | 2.5 | mg/L | 1.0 | 03/01/24 20:02 | |
| EPA 6010D | Magnesium | 0.59 | mg/L | 0.050 | 03/01/24 20:02 | |
| EPA 6020B | Barium | 0.013 | mg/L | 0.0050 | 03/01/24 16:40 | |
| SM 2540C-2015 | Total Dissolved Solids | 164 | mg/L | 25.0 | 02/26/24 15:46 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 24.6 | mg/L | 5.0 | 02/23/24 19:13 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 24.6 | mg/L | 5.0 | 02/23/24 19:13 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 2.9 | mg/L | 1.0 | 02/23/24 17:28 | |
| **92714723007** | **YAT-YGWA-21I** | | | | | |
| EPA 6010D | Potassium | 3.1 | mg/L | 0.50 | 03/01/24 20:05 | |
| EPA 6010D | Sodium | 18.6 | mg/L | 1.0 | 03/01/24 20:05 | |
| EPA 6010D | Calcium | 7.0 | mg/L | 1.0 | 03/01/24 20:05 | |
| EPA 6010D | Magnesium | 3.6 | mg/L | 0.050 | 03/01/24 20:05 | |
| EPA 6020B | Antimony | 0.0013J | mg/L | 0.0030 | 03/01/24 16:44 | |

## REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

## SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **92714723007** | **YAT-YGWA-21I** | | | | | |
| EPA 6020B | Barium | 0.0065 | mg/L | 0.0050 | 03/01/24 16:44 | |
| EPA 6020B | Cobalt | 0.020 | mg/L | 0.0050 | 03/01/24 16:44 | |
| EPA 6020B | Lithium | 0.0062J | mg/L | 0.030 | 03/01/24 16:44 | |
| SM 2540C-2015 | Total Dissolved Solids | 156 | mg/L | 25.0 | 02/26/24 15:46 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 70.9 | mg/L | 5.0 | 02/23/24 19:19 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 70.9 | mg/L | 5.0 | 02/23/24 19:19 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 2.3 | mg/L | 1.0 | 02/23/24 17:43 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.083J | mg/L | 0.10 | 02/23/24 17:43 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 3.8 | mg/L | 1.0 | 02/23/24 17:43 | |
| **92714723008** | **YAT-YGWA-17S** | | | | | |
| EPA 6010D | Potassium | 0.36J | mg/L | 0.50 | 03/02/24 10:05 | |
| EPA 6010D | Sodium | 15.0 | mg/L | 1.0 | 03/02/24 10:05 | |
| EPA 6010D | Calcium | 3.2 | mg/L | 1.0 | 03/02/24 10:05 | |
| EPA 6010D | Magnesium | 1.1 | mg/L | 0.050 | 03/02/24 10:05 | |
| EPA 6020B | Barium | 0.017 | mg/L | 0.0050 | 03/01/24 16:48 | |
| EPA 6020B | Beryllium | 0.00010J | mg/L | 0.00050 | 03/01/24 16:48 | |
| SM 2540C-2015 | Total Dissolved Solids | 77.0 | mg/L | 25.0 | 02/26/24 15:46 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 14.5 | mg/L | 5.0 | 02/23/24 19:27 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 14.5 | mg/L | 5.0 | 02/23/24 19:27 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 12.2 | mg/L | 1.0 | 02/23/24 17:58 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 4.6 | mg/L | 1.0 | 02/23/24 17:58 | |
| **92714723010** | **YAT-YGWA-18I** | | | | | |
| EPA 6010D | Potassium | 0.95 | mg/L | 0.50 | 03/02/24 10:24 | |
| EPA 6010D | Sodium | 12.6 | mg/L | 1.0 | 03/02/24 10:24 | |
| EPA 6010D | Calcium | 5.6 | mg/L | 1.0 | 03/02/24 10:24 | |
| EPA 6010D | Magnesium | 3.1 | mg/L | 0.050 | 03/02/24 10:24 | |
| EPA 6020B | Barium | 0.020 | mg/L | 0.0050 | 03/01/24 16:56 | |
| EPA 6020B | Lithium | 0.0038J | mg/L | 0.030 | 03/01/24 16:56 | |
| SM 2540C-2015 | Total Dissolved Solids | 129 | mg/L | 25.0 | 02/26/24 15:47 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 36.4 | mg/L | 5.0 | 02/23/24 19:48 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 36.4 | mg/L | 5.0 | 02/23/24 19:48 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 7.6 | mg/L | 1.0 | 02/23/24 18:27 | |
| **92714723011** | **YAT-UGRD-EB-1** | | | | | |
| SM 2540C-2015 | Total Dissolved Solids | 64.0 | mg/L | 25.0 | 02/26/24 15:47 | |
| **92714723015** | **YAT-YGWA-30I** | | | | | |
| EPA 6010D | Potassium | 0.55 | mg/L | 0.50 | 03/02/24 10:37 | |
| EPA 6010D | Sodium | 5.8 | mg/L | 1.0 | 03/02/24 10:37 | |
| EPA 6010D | Calcium | 1.3 | mg/L | 1.0 | 03/02/24 10:37 | |
| EPA 6010D | Magnesium | 0.89 | mg/L | 0.050 | 03/02/24 10:37 | |
| EPA 6020B | Barium | 0.0064 | mg/L | 0.0050 | 03/01/24 17:17 | |
| EPA 6020B | Cobalt | 0.0029J | mg/L | 0.0050 | 03/01/24 17:17 | |
| SM 2540C-2015 | Total Dissolved Solids | 55.0 | mg/L | 25.0 | 02/26/24 15:48 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 15.7 | mg/L | 5.0 | 02/23/24 20:11 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 15.7 | mg/L | 5.0 | 02/23/24 20:11 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 1.4 | mg/L | 1.0 | 02/23/24 19:12 | |

## REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

## SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **92714723015** | **YAT-YGWA-30I** | | | | | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.051J | mg/L | 0.10 | 02/23/24 19:12 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 0.69J | mg/L | 1.0 | 02/23/24 19:12 | |
| **92714723016** | **YAT-YGWA-3I** | | | | | |
| EPA 6010D | Potassium | 5.0 | mg/L | 0.50 | 03/02/24 10:45 | |
| EPA 6010D | Sodium | 9.2 | mg/L | 1.0 | 03/02/24 10:45 | |
| EPA 6010D | Calcium | 23.7 | mg/L | 1.0 | 03/02/24 10:45 | |
| EPA 6010D | Magnesium | 5.3 | mg/L | 0.050 | 03/02/24 10:45 | |
| EPA 6020B | Arsenic | 0.0013J | mg/L | 0.0050 | 03/01/24 17:47 | |
| EPA 6020B | Barium | 0.0032J | mg/L | 0.0050 | 03/01/24 17:47 | |
| EPA 6020B | Lithium | 0.020J | mg/L | 0.030 | 03/01/24 17:47 | |
| EPA 6020B | Molybdenum | 0.0089J | mg/L | 0.010 | 03/01/24 17:47 | |
| SM 2540C-2015 | Total Dissolved Solids | 220 | mg/L | 25.0 | 02/26/24 15:49 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 90.2 | mg/L | 5.0 | 02/23/24 20:17 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 90.2 | mg/L | 5.0 | 02/23/24 20:17 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 1.1 | mg/L | 1.0 | 02/23/24 20:26 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.12 | mg/L | 0.10 | 02/23/24 20:26 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 13.8 | mg/L | 1.0 | 02/23/24 20:26 | |
| **92714723017** | **YAT-YGWA-3D** | | | | | |
| EPA 6010D | Potassium | 3.5 | mg/L | 0.50 | 03/02/24 10:48 | |
| EPA 6010D | Sodium | 10.0 | mg/L | 1.0 | 03/02/24 10:48 | |
| EPA 6010D | Calcium | 30.7 | mg/L | 1.0 | 03/02/24 10:48 | |
| EPA 6010D | Magnesium | 3.7 | mg/L | 0.050 | 03/02/24 10:48 | |
| EPA 6020B | Arsenic | 0.0027J | mg/L | 0.0050 | 03/01/24 17:51 | |
| EPA 6020B | Barium | 0.0045J | mg/L | 0.0050 | 03/01/24 17:51 | |
| EPA 6020B | Lithium | 0.021J | mg/L | 0.030 | 03/01/24 17:51 | |
| EPA 6020B | Molybdenum | 0.013 | mg/L | 0.010 | 03/01/24 17:51 | |
| SM 2540C-2015 | Total Dissolved Solids | 294 | mg/L | 25.0 | 02/26/24 15:49 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 108 | mg/L | 5.0 | 02/23/24 20:25 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 108 | mg/L | 5.0 | 02/23/24 20:25 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 1.1 | mg/L | 1.0 | 02/23/24 20:40 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.45 | mg/L | 0.10 | 02/23/24 20:40 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 7.0 | mg/L | 1.0 | 02/23/24 20:40 | |
| **92714723019** | **YAT-YGWA-39** | | | | | |
| EPA 6010D | Potassium | 5.8 | mg/L | 0.50 | 03/02/24 10:54 | |
| EPA 6010D | Sodium | 25.2 | mg/L | 1.0 | 03/02/24 10:54 | |
| EPA 6010D | Calcium | 16.9 | mg/L | 1.0 | 03/02/24 10:54 | |
| EPA 6010D | Magnesium | 21.2 | mg/L | 0.050 | 03/02/24 10:54 | |
| EPA 6020B | Arsenic | 0.0020J | mg/L | 0.0050 | 03/01/24 18:00 | |
| EPA 6020B | Barium | 0.029 | mg/L | 0.0050 | 03/01/24 18:00 | |
| EPA 6020B | Boron | 0.12 | mg/L | 0.040 | 03/01/24 18:00 | |
| EPA 6020B | Cobalt | 0.00073J | mg/L | 0.0050 | 03/01/24 18:00 | |
| EPA 6020B | Lithium | 0.0059J | mg/L | 0.030 | 03/01/24 18:00 | |
| EPA 6020B | Molybdenum | 0.0058J | mg/L | 0.010 | 03/01/24 18:00 | |
| SM 2540C-2015 | Total Dissolved Solids | 233 | mg/L | 25.0 | 02/26/24 15:50 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 183 | mg/L | 5.0 | 02/23/24 20:49 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 183 | mg/L | 5.0 | 02/23/24 20:49 | |



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## SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **92714723019** | **YAT-YGWA-39** | | | | | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 4.6 | mg/L | 1.0 | 02/23/24 21:10 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.063J | mg/L | 0.10 | 02/23/24 21:10 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 8.6 | mg/L | 1.0 | 02/23/24 21:10 | |
| **92714723020** | **YAT-YGWA-40** | | | | | |
| EPA 6010D | Potassium | 2.0 | mg/L | 0.50 | 03/02/24 11:39 | |
| EPA 6010D | Sodium | 10.1 | mg/L | 1.0 | 03/02/24 11:39 | |
| EPA 6010D | Calcium | 5.6 | mg/L | 1.0 | 03/02/24 11:39 | |
| EPA 6010D | Magnesium | 3.2 | mg/L | 0.050 | 03/02/24 11:39 | |
| EPA 6020B | Arsenic | 0.0012J | mg/L | 0.0050 | 03/01/24 18:04 | |
| EPA 6020B | Barium | 0.033 | mg/L | 0.0050 | 03/01/24 18:04 | |
| EPA 6020B | Beryllium | 0.00025J | mg/L | 0.00050 | 03/01/24 18:04 | |
| EPA 6020B | Boron | 0.056 | mg/L | 0.040 | 03/01/24 18:04 | |
| EPA 7470A | Mercury | 0.00032 | mg/L | 0.00020 | 03/07/24 15:52 | |
| SM 2540C-2015 | Total Dissolved Solids | 109 | mg/L | 25.0 | 02/26/24 15:50 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 24.7 | mg/L | 5.0 | 02/23/24 21:04 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 24.7 | mg/L | 5.0 | 02/23/24 21:04 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 5.7 | mg/L | 1.0 | 02/23/24 21:25 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 17.2 | mg/L | 1.0 | 02/23/24 21:25 | |
| **92714723021** | **YAT-YGWA-1I** | | | | | |
| EPA 6010D | Potassium | 2.2 | mg/L | 0.50 | 03/02/24 08:45 | |
| EPA 6010D | Sodium | 5.5 | mg/L | 1.0 | 03/02/24 08:45 | |
| EPA 6010D | Calcium | 2.2 | mg/L | 1.0 | 03/02/24 08:45 | |
| EPA 6010D | Magnesium | 1.0 | mg/L | 0.050 | 03/02/24 08:45 | |
| EPA 6020B | Barium | 0.0040J | mg/L | 0.0050 | 03/01/24 18:29 | |
| EPA 6020B | Boron | 0.014J | mg/L | 0.040 | 03/01/24 18:29 | |
| EPA 6020B | Cobalt | 0.0018J | mg/L | 0.0050 | 03/01/24 18:29 | |
| EPA 6020B | Molybdenum | 0.030 | mg/L | 0.010 | 03/01/24 18:29 | |
| SM 2540C-2015 | Total Dissolved Solids | 59.0 | mg/L | 25.0 | 02/26/24 15:50 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 17.9 | mg/L | 5.0 | 02/23/24 21:23 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 17.9 | mg/L | 5.0 | 02/23/24 21:23 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 1.2 | mg/L | 1.0 | 02/23/24 21:40 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 4.3 | mg/L | 1.0 | 02/23/24 21:40 | |
| **92714723022** | **YAT-YGWA-1D** | | | | | |
| EPA 6010D | Potassium | 3.8 | mg/L | 0.50 | 03/02/24 08:54 | |
| EPA 6010D | Sodium | 10 | mg/L | 1.0 | 03/02/24 08:54 | |
| EPA 6010D | Calcium | 15.3 | mg/L | 1.0 | 03/02/24 08:54 | |
| EPA 6010D | Magnesium | 2.0 | mg/L | 0.050 | 03/02/24 08:54 | |
| EPA 6020B | Antimony | 0.0023J | mg/L | 0.0030 | 03/01/24 18:45 | |
| EPA 6020B | Barium | 0.0062 | mg/L | 0.0050 | 03/01/24 18:45 | |
| EPA 6020B | Boron | 0.015J | mg/L | 0.040 | 03/01/24 18:45 | |
| EPA 6020B | Cobalt | 0.00055J | mg/L | 0.0050 | 03/01/24 18:45 | |
| EPA 6020B | Lithium | 0.0071J | mg/L | 0.030 | 03/01/24 18:45 | |
| EPA 6020B | Molybdenum | 0.0098J | mg/L | 0.010 | 03/01/24 18:45 | |
| SM 2540C-2015 | Total Dissolved Solids | 130 | mg/L | 25.0 | 02/26/24 17:48 | D6 |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 61.2 | mg/L | 5.0 | 02/27/24 17:28 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 61.2 | mg/L | 5.0 | 02/27/24 17:28 | |

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## SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **92714723022** | **YAT-YGWA-1D** | | | | | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 1.0 | mg/L | 1.0 | 02/23/24 21:54 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.086J | mg/L | 0.10 | 02/23/24 21:54 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 9.7 | mg/L | 1.0 | 02/23/24 21:54 | |
| **92714723023** | **YAT-YGWA-2I** | | | | | |
| EPA 6010D | Potassium | 5.6 | mg/L | 0.50 | 03/02/24 08:56 | |
| EPA 6010D | Sodium | 9.4 | mg/L | 1.0 | 03/02/24 08:56 | |
| EPA 6010D | Calcium | 28.2 | mg/L | 1.0 | 03/02/24 08:56 | |
| EPA 6010D | Magnesium | 4.4 | mg/L | 0.050 | 03/02/24 08:56 | |
| EPA 6020B | Antimony | 0.00067J | mg/L | 0.0030 | 03/01/24 18:49 | |
| EPA 6020B | Arsenic | 0.0019J | mg/L | 0.0050 | 03/01/24 18:49 | |
| EPA 6020B | Barium | 0.0044J | mg/L | 0.0050 | 03/01/24 18:49 | |
| EPA 6020B | Lithium | 0.0021J | mg/L | 0.030 | 03/01/24 18:49 | |
| EPA 6020B | Molybdenum | 0.0076J | mg/L | 0.010 | 03/01/24 18:49 | |
| SM 2540C-2015 | Total Dissolved Solids | 159 | mg/L | 25.0 | 02/26/24 17:49 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 84.2 | mg/L | 5.0 | 02/27/24 17:35 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 84.2 | mg/L | 5.0 | 02/27/24 17:35 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 0.96J | mg/L | 1.0 | 02/23/24 22:09 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.10 | mg/L | 0.10 | 02/23/24 22:09 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 23.1 | mg/L | 1.0 | 02/23/24 22:09 | |
| **92714723024** | **YAT-YGWA-14S** | | | | | |
| EPA 6010D | Potassium | 0.89 | mg/L | 0.50 | 03/04/24 18:20 | |
| EPA 6010D | Sodium | 10.1 | mg/L | 1.0 | 03/04/24 18:20 | |
| EPA 6010D | Calcium | 1.6 | mg/L | 1.0 | 03/04/24 18:20 | |
| EPA 6010D | Magnesium | 1.8 | mg/L | 0.050 | 03/04/24 18:20 | |
| EPA 6020B | Barium | 0.0096 | mg/L | 0.0050 | 03/05/24 15:59 | |
| EPA 6020B | Beryllium | 0.00024J | mg/L | 0.00050 | 03/05/24 15:59 | |
| EPA 6020B | Boron | 0.037J | mg/L | 0.040 | 03/05/24 15:59 | |
| EPA 6020B | Selenium | 0.0010J | mg/L | 0.0050 | 03/05/24 15:59 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 14.4 | mg/L | 5.0 | 03/05/24 17:55 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 14.4 | mg/L | 5.0 | 03/05/24 17:55 | |
| SM 2540C-2015 | Total Dissolved Solids | 64.0 | mg/L | 25.0 | 02/27/24 11:04 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 4.8 | mg/L | 1.0 | 02/27/24 04:05 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 7.1 | mg/L | 1.0 | 02/27/24 04:05 | |
| **92714723025** | **YAT-YGWA-18S** | | | | | |
| EPA 6010D | Potassium | 0.62 | mg/L | 0.50 | 03/04/24 15:44 | B |
| EPA 6010D | Calcium | 0.84J | mg/L | 1.0 | 03/04/24 15:44 | |
| EPA 6010D | Magnesium | 1.0 | mg/L | 0.050 | 03/04/24 15:44 | |
| EPA 6010D | Sodium | 8.6 | mg/L | 1.0 | 03/05/24 18:28 | M1 |
| EPA 6020B | Barium | 0.013 | mg/L | 0.0050 | 03/05/24 16:03 | |
| EPA 6020B | Boron | 0.018J | mg/L | 0.040 | 03/05/24 16:03 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 8.7 | mg/L | 5.0 | 03/05/24 18:01 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 8.7 | mg/L | 5.0 | 03/05/24 18:01 | |
| SM 2540C-2015 | Total Dissolved Solids | 52.0 | mg/L | 25.0 | 02/27/24 11:04 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 6.6 | mg/L | 1.0 | 02/27/24 04:19 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 0.79J | mg/L | 1.0 | 02/27/24 04:19 | |



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## SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **92714723026** | **YAT-UGRD-FD-1** | | | | | |
| EPA 6010D | Potassium | 0.90 | mg/L | 0.50 | 03/04/24 15:53 | B |
| EPA 6010D | Calcium | 1.6 | mg/L | 1.0 | 03/04/24 15:53 | |
| EPA 6010D | Magnesium | 1.7 | mg/L | 0.050 | 03/04/24 15:53 | |
| EPA 6010D | Sodium | 10.4 | mg/L | 1.0 | 03/05/24 18:43 | |
| EPA 6020B | Barium | 0.0093 | mg/L | 0.0050 | 03/05/24 16:06 | |
| EPA 6020B | Beryllium | 0.00024J | mg/L | 0.00050 | 03/05/24 16:06 | |
| EPA 6020B | Boron | 0.027J | mg/L | 0.040 | 03/05/24 16:06 | |
| EPA 6020B | Selenium | 0.0011J | mg/L | 0.0050 | 03/05/24 16:06 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 14.6 | mg/L | 5.0 | 03/05/24 18:06 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 14.6 | mg/L | 5.0 | 03/05/24 18:06 | |
| SM 2540C-2015 | Total Dissolved Solids | 73.0 | mg/L | 25.0 | 02/27/24 11:04 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 4.7 | mg/L | 1.0 | 02/27/24 05:02 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.055J | mg/L | 0.10 | 02/27/24 05:02 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 7.0 | mg/L | 1.0 | 02/27/24 05:02 | |
| **92714723027** | **YAT-UGRD-FD-2** | | | | | |
| EPA 6010D | Potassium | 0.63 | mg/L | 0.50 | 03/04/24 16:01 | B |
| EPA 6010D | Sodium | 9.0 | mg/L | 1.0 | 03/04/24 16:01 | |
| EPA 6010D | Calcium | 0.87J | mg/L | 1.0 | 03/04/24 16:01 | |
| EPA 6010D | Magnesium | 1.0 | mg/L | 0.050 | 03/04/24 16:01 | |
| EPA 6020B | Barium | 0.013 | mg/L | 0.0050 | 03/05/24 16:10 | |
| EPA 6020B | Boron | 0.012J | mg/L | 0.040 | 03/05/24 16:10 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 8.8 | mg/L | 5.0 | 03/05/24 18:12 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 8.8 | mg/L | 5.0 | 03/05/24 18:12 | |
| SM 2540C-2015 | Total Dissolved Solids | 53.0 | mg/L | 25.0 | 02/27/24 11:04 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 6.7 | mg/L | 1.0 | 02/27/24 05:16 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 0.79J | mg/L | 1.0 | 02/27/24 05:16 | |

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## ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Sample: YAT-YGWA-47** **Lab ID: 92714723001** Collected: 02/20/24 10:30 Received: 02/21/24 15:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **4.1** | mg/L | 0.50 | 0.15 | 1 | 02/28/24 14:22 | 03/01/24 19:41 | 7440-09-7 | |
| Sodium | **12.3** | mg/L | 1.0 | 0.58 | 1 | 02/28/24 14:22 | 03/01/24 19:41 | 7440-23-5 | |
| Calcium | **10.3** | mg/L | 1.0 | 0.12 | 1 | 02/28/24 14:22 | 03/01/24 19:41 | 7440-70-2 | |
| Magnesium | **10.9** | mg/L | 0.050 | 0.012 | 1 | 02/28/24 14:22 | 03/01/24 19:41 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/28/24 12:45 | 03/01/24 15:53 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/28/24 12:45 | 03/01/24 15:53 | 7440-38-2 | |
| Barium | **0.031** | mg/L | 0.0050 | 0.00047 | 1 | 02/28/24 12:45 | 03/01/24 15:53 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/28/24 12:45 | 03/01/24 15:53 | 7440-41-7 | |
| Boron | **0.023J** | mg/L | 0.040 | 0.012 | 1 | 02/28/24 12:45 | 03/01/24 15:53 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/28/24 12:45 | 03/01/24 15:53 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/28/24 12:45 | 03/01/24 15:53 | 7440-47-3 | |
| Cobalt | **0.0011J** | mg/L | 0.0050 | 0.00032 | 1 | 02/28/24 12:45 | 03/01/24 15:53 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/28/24 12:45 | 03/01/24 15:53 | 7439-92-1 | |
| Lithium | **0.0036J** | mg/L | 0.030 | 0.0016 | 1 | 02/28/24 12:45 | 03/01/24 15:53 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 02/28/24 12:45 | 03/01/24 15:53 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/28/24 12:45 | 03/01/24 15:53 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/28/24 12:45 | 03/01/24 15:53 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/07/24 12:00 | 03/07/24 14:44 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | **159** | mg/L | 25.0 | 25.0 | 1 | | 02/26/24 14:45 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **36.4** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 17:28 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 17:28 | | |
| Alkalinity, Total as CaCO3 | **36.4** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 17:28 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **3.2** | mg/L | 1.0 | 0.60 | 1 | | 02/23/24 15:14 | 16887-00-6 | |
| Fluoride | **0.073J** | mg/L | 0.10 | 0.050 | 1 | | 02/23/24 15:14 | 16984-48-8 | |
| Sulfate | **51.0** | mg/L | 1.0 | 0.50 | 1 | | 02/23/24 15:14 | 14808-79-8 | |

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# ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Sample: YAT-GWA-2** **Lab ID: 92714723002** Collected: 02/20/24 11:50 Received: 02/21/24 15:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **9.9** | mg/L | 0.50 | 0.15 | 1 | 02/28/24 14:22 | 03/01/24 19:46 | 7440-09-7 | |
| Sodium | **8.2** | mg/L | 1.0 | 0.58 | 1 | 02/28/24 14:22 | 03/01/24 19:46 | 7440-23-5 | |
| Calcium | **22.8** | mg/L | 1.0 | 0.12 | 1 | 02/28/24 14:22 | 03/01/24 19:46 | 7440-70-2 | |
| Magnesium | **19.8** | mg/L | 0.050 | 0.012 | 1 | 02/28/24 14:22 | 03/01/24 19:46 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | **0.0026J** | mg/L | 0.0030 | 0.00054 | 1 | 02/28/24 12:45 | 03/01/24 16:10 | 7440-36-0 | |
| Arsenic | **0.0015J** | mg/L | 0.0050 | 0.00084 | 1 | 02/28/24 12:45 | 03/01/24 16:10 | 7440-38-2 | |
| Barium | **0.035** | mg/L | 0.0050 | 0.00047 | 1 | 02/28/24 12:45 | 03/01/24 16:10 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/28/24 12:45 | 03/01/24 16:10 | 7440-41-7 | |
| Boron | **0.017J** | mg/L | 0.040 | 0.012 | 1 | 02/28/24 12:45 | 03/01/24 16:10 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/28/24 12:45 | 03/01/24 16:10 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/28/24 12:45 | 03/01/24 16:10 | 7440-47-3 | |
| Cobalt | **0.023** | mg/L | 0.0050 | 0.00032 | 1 | 02/28/24 12:45 | 03/01/24 16:10 | 7440-48-4 | |
| Copper | **0.00067J** | mg/L | 0.0050 | 0.00043 | 1 | 02/28/24 12:45 | 03/01/24 16:10 | 7440-50-8 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/28/24 12:45 | 03/01/24 16:10 | 7439-92-1 | |
| Lithium | **0.0024J** | mg/L | 0.030 | 0.0016 | 1 | 02/28/24 12:45 | 03/01/24 16:10 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 02/28/24 12:45 | 03/01/24 16:10 | 7439-98-7 | |
| Nickel | **0.010** | mg/L | 0.0050 | 0.0021 | 1 | 02/28/24 12:45 | 03/01/24 16:10 | 7440-02-0 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/28/24 12:45 | 03/01/24 16:10 | 7782-49-2 | |
| Silver | ND | mg/L | 0.0050 | 0.00031 | 1 | 02/28/24 12:45 | 03/01/24 16:10 | 7440-22-4 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/28/24 12:45 | 03/01/24 16:10 | 7440-28-0 | |
| Vanadium | ND | mg/L | 0.010 | 0.00075 | 1 | 02/28/24 12:45 | 03/01/24 16:10 | 7440-62-2 | |
| Zinc | **0.0058J** | mg/L | 0.010 | 0.0024 | 1 | 02/28/24 12:45 | 03/01/24 16:10 | 7440-66-6 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/07/24 12:00 | 03/07/24 14:52 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | **214** | mg/L | 25.0 | 25.0 | 1 | | 02/26/24 15:45 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **73.5** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 17:47 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 17:47 | | |
| Alkalinity, Total as CaCO3 | **73.5** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 17:47 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **6.1** | mg/L | 1.0 | 0.60 | 1 | | 02/23/24 15:29 | 16887-00-6 | |
| Fluoride | **0.094J** | mg/L | 0.10 | 0.050 | 1 | | 02/23/24 15:29 | 16984-48-8 | |

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## ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Sample: YAT-GWA-2** **Lab ID: 92714723002** Collected: 02/20/24 11:50 Received: 02/21/24 15:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Sulfate | **75.0** | mg/L | 1.0 | 0.50 | 1 | | 02/23/24 15:29 | 14808-79-8 | |

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# ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Sample: YAT-YGWA-4I** **Lab ID: 92714723003** Collected: 02/20/24 11:10 Received: 02/21/24 15:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **4.0** | mg/L | 0.50 | 0.15 | 1 | 02/28/24 14:22 | 03/01/24 19:49 | 7440-09-7 | |
| Sodium | **10.1** | mg/L | 1.0 | 0.58 | 1 | 02/28/24 14:22 | 03/01/24 19:49 | 7440-23-5 | |
| Calcium | **9.9** | mg/L | 1.0 | 0.12 | 1 | 02/28/24 14:22 | 03/01/24 19:49 | 7440-70-2 | |
| Magnesium | **5.5** | mg/L | 0.050 | 0.012 | 1 | 02/28/24 14:22 | 03/01/24 19:49 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | **0.00061J** | mg/L | 0.0030 | 0.00054 | 1 | 02/28/24 12:45 | 03/01/24 16:14 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/28/24 12:45 | 03/01/24 16:14 | 7440-38-2 | |
| Barium | **0.014** | mg/L | 0.0050 | 0.00047 | 1 | 02/28/24 12:45 | 03/01/24 16:14 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/28/24 12:45 | 03/01/24 16:14 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.012 | 1 | 02/28/24 12:45 | 03/01/24 16:14 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/28/24 12:45 | 03/01/24 16:14 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/28/24 12:45 | 03/01/24 16:14 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 02/28/24 12:45 | 03/01/24 16:14 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/28/24 12:45 | 03/01/24 16:14 | 7439-92-1 | |
| Lithium | **0.014J** | mg/L | 0.030 | 0.0016 | 1 | 02/28/24 12:45 | 03/01/24 16:14 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 02/28/24 12:45 | 03/01/24 16:14 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/28/24 12:45 | 03/01/24 16:14 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/28/24 12:45 | 03/01/24 16:14 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/07/24 12:00 | 03/07/24 15:02 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | **140** | mg/L | 25.0 | 25.0 | 1 | | 02/26/24 15:45 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **56.0** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 18:50 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 18:50 | | |
| Alkalinity, Total as CaCO3 | **56.0** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 18:50 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **4.6** | mg/L | 1.0 | 0.60 | 1 | | 02/23/24 15:44 | 16887-00-6 | |
| Fluoride | **0.059J** | mg/L | 0.10 | 0.050 | 1 | | 02/23/24 15:44 | 16984-48-8 | |
| Sulfate | **8.5** | mg/L | 1.0 | 0.50 | 1 | | 02/23/24 15:44 | 14808-79-8 | |

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# ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Sample: YAT-YGWA-5I** **Lab ID: 92714723004** Collected: 02/20/24 12:18 Received: 02/21/24 15:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **1.5** | mg/L | 0.50 | 0.15 | 1 | 02/28/24 14:22 | 03/01/24 19:57 | 7440-09-7 | |
| Sodium | **10.5** | mg/L | 1.0 | 0.58 | 1 | 02/28/24 14:22 | 03/01/24 19:57 | 7440-23-5 | |
| Calcium | **2.7** | mg/L | 1.0 | 0.12 | 1 | 02/28/24 14:22 | 03/01/24 19:57 | 7440-70-2 | |
| Magnesium | **2.7** | mg/L | 0.050 | 0.012 | 1 | 02/28/24 14:22 | 03/01/24 19:57 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/28/24 12:45 | 03/01/24 16:18 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/28/24 12:45 | 03/01/24 16:18 | 7440-38-2 | |
| Barium | **0.019** | mg/L | 0.0050 | 0.00047 | 1 | 02/28/24 12:45 | 03/01/24 16:18 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/28/24 12:45 | 03/01/24 16:18 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.012 | 1 | 02/28/24 12:45 | 03/01/24 16:18 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/28/24 12:45 | 03/01/24 16:18 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/28/24 12:45 | 03/01/24 16:18 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 02/28/24 12:45 | 03/01/24 16:18 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/28/24 12:45 | 03/01/24 16:18 | 7439-92-1 | |
| Lithium | **0.0033J** | mg/L | 0.030 | 0.0016 | 1 | 02/28/24 12:45 | 03/01/24 16:18 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 02/28/24 12:45 | 03/01/24 16:18 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/28/24 12:45 | 03/01/24 16:18 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/28/24 12:45 | 03/01/24 16:18 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/07/24 12:00 | 03/07/24 15:05 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | **137** | mg/L | 25.0 | 25.0 | 1 | | 02/26/24 15:45 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **25.3** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 18:58 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 18:58 | | |
| Alkalinity, Total as CaCO3 | **25.3** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 18:58 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **4.8** | mg/L | 1.0 | 0.60 | 1 | | 02/23/24 15:59 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 02/23/24 15:59 | 16984-48-8 | |
| Sulfate | **2.5** | mg/L | 1.0 | 0.50 | 1 | | 02/23/24 15:59 | 14808-79-8 | |

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# ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Sample: YAT-YGWA-5D** **Lab ID: 92714723005** Collected: 02/20/24 13:25 Received: 02/21/24 15:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **3.5** | mg/L | 0.50 | 0.15 | 1 | 02/28/24 14:22 | 03/01/24 20:00 | 7440-09-7 | |
| Sodium | **9.5** | mg/L | 1.0 | 0.58 | 1 | 02/28/24 14:22 | 03/01/24 20:00 | 7440-23-5 | |
| Calcium | **27.2** | mg/L | 1.0 | 0.12 | 1 | 02/28/24 14:22 | 03/01/24 20:00 | 7440-70-2 | |
| Magnesium | **4.5** | mg/L | 0.050 | 0.012 | 1 | 02/28/24 14:22 | 03/01/24 20:00 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/28/24 12:45 | 03/01/24 16:22 | 7440-36-0 | |
| Arsenic | **0.0030J** | mg/L | 0.0050 | 0.00084 | 1 | 02/28/24 12:45 | 03/01/24 16:22 | 7440-38-2 | |
| Barium | **0.0078** | mg/L | 0.0050 | 0.00047 | 1 | 02/28/24 12:45 | 03/01/24 16:22 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/28/24 12:45 | 03/01/24 16:22 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.012 | 1 | 02/28/24 12:45 | 03/01/24 16:22 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/28/24 12:45 | 03/01/24 16:22 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/28/24 12:45 | 03/01/24 16:22 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 02/28/24 12:45 | 03/01/24 16:22 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/28/24 12:45 | 03/01/24 16:22 | 7439-92-1 | |
| Lithium | **0.0056J** | mg/L | 0.030 | 0.0016 | 1 | 02/28/24 12:45 | 03/01/24 16:22 | 7439-93-2 | |
| Molybdenum | **0.0010J** | mg/L | 0.010 | 0.00062 | 1 | 02/28/24 12:45 | 03/01/24 16:22 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/28/24 12:45 | 03/01/24 16:22 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/28/24 12:45 | 03/01/24 16:22 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/07/24 12:00 | 03/07/24 15:07 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | **639** | mg/L | 25.0 | 25.0 | 1 | | 02/26/24 15:46 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **103** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 19:04 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 19:04 | | |
| Alkalinity, Total as CaCO3 | **103** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 19:04 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **3.2** | mg/L | 1.0 | 0.60 | 1 | | 02/23/24 16:14 | 16887-00-6 | |
| Fluoride | **0.076J** | mg/L | 0.10 | 0.050 | 1 | | 02/23/24 16:14 | 16984-48-8 | |
| Sulfate | **5.1** | mg/L | 1.0 | 0.50 | 1 | | 02/23/24 16:14 | 14808-79-8 | |

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# ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Sample: YAT-YGWA-20S** **Lab ID: 92714723006** Collected: 02/20/24 14:40 Received: 02/21/24 15:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **0.51** | mg/L | 0.50 | 0.15 | 1 | 02/28/24 14:22 | 03/01/24 20:02 | 7440-09-7 | |
| Sodium | **9.2** | mg/L | 1.0 | 0.58 | 1 | 02/28/24 14:22 | 03/01/24 20:02 | 7440-23-5 | |
| Calcium | **2.5** | mg/L | 1.0 | 0.12 | 1 | 02/28/24 14:22 | 03/01/24 20:02 | 7440-70-2 | |
| Magnesium | **0.59** | mg/L | 0.050 | 0.012 | 1 | 02/28/24 14:22 | 03/01/24 20:02 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/28/24 12:45 | 03/01/24 16:40 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/28/24 12:45 | 03/01/24 16:40 | 7440-38-2 | |
| Barium | **0.013** | mg/L | 0.0050 | 0.00047 | 1 | 02/28/24 12:45 | 03/01/24 16:40 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/28/24 12:45 | 03/01/24 16:40 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.012 | 1 | 02/28/24 12:45 | 03/01/24 16:40 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/28/24 12:45 | 03/01/24 16:40 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/28/24 12:45 | 03/01/24 16:40 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 02/28/24 12:45 | 03/01/24 16:40 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/28/24 12:45 | 03/01/24 16:40 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 02/28/24 12:45 | 03/01/24 16:40 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 02/28/24 12:45 | 03/01/24 16:40 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/28/24 12:45 | 03/01/24 16:40 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/28/24 12:45 | 03/01/24 16:40 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/07/24 12:00 | 03/07/24 15:10 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | **164** | mg/L | 25.0 | 25.0 | 1 | | 02/26/24 15:46 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **24.6** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 19:13 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 19:13 | | |
| Alkalinity, Total as CaCO3 | **24.6** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 19:13 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **2.9** | mg/L | 1.0 | 0.60 | 1 | | 02/23/24 17:28 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 02/23/24 17:28 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 02/23/24 17:28 | 14808-79-8 | |

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# ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Sample: YAT-YGWA-21I** **Lab ID: 92714723007** Collected: 02/20/24 16:38 Received: 02/21/24 15:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **3.1** | mg/L | 0.50 | 0.15 | 1 | 02/28/24 14:22 | 03/01/24 20:05 | 7440-09-7 | |
| Sodium | **18.6** | mg/L | 1.0 | 0.58 | 1 | 02/28/24 14:22 | 03/01/24 20:05 | 7440-23-5 | |
| Calcium | **7.0** | mg/L | 1.0 | 0.12 | 1 | 02/28/24 14:22 | 03/01/24 20:05 | 7440-70-2 | |
| Magnesium | **3.6** | mg/L | 0.050 | 0.012 | 1 | 02/28/24 14:22 | 03/01/24 20:05 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | **0.0013J** | mg/L | 0.0030 | 0.00054 | 1 | 02/28/24 12:45 | 03/01/24 16:44 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/28/24 12:45 | 03/01/24 16:44 | 7440-38-2 | |
| Barium | **0.0065** | mg/L | 0.0050 | 0.00047 | 1 | 02/28/24 12:45 | 03/01/24 16:44 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/28/24 12:45 | 03/01/24 16:44 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.012 | 1 | 02/28/24 12:45 | 03/01/24 16:44 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/28/24 12:45 | 03/01/24 16:44 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/28/24 12:45 | 03/01/24 16:44 | 7440-47-3 | |
| Cobalt | **0.020** | mg/L | 0.0050 | 0.00032 | 1 | 02/28/24 12:45 | 03/01/24 16:44 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/28/24 12:45 | 03/01/24 16:44 | 7439-92-1 | |
| Lithium | **0.0062J** | mg/L | 0.030 | 0.0016 | 1 | 02/28/24 12:45 | 03/01/24 16:44 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 02/28/24 12:45 | 03/01/24 16:44 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/28/24 12:45 | 03/01/24 16:44 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/28/24 12:45 | 03/01/24 16:44 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/07/24 12:00 | 03/07/24 15:13 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | **156** | mg/L | 25.0 | 25.0 | 1 | | 02/26/24 15:46 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **70.9** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 19:19 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 19:19 | | |
| Alkalinity, Total as CaCO3 | **70.9** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 19:19 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **2.3** | mg/L | 1.0 | 0.60 | 1 | | 02/23/24 17:43 | 16887-00-6 | |
| Fluoride | **0.083J** | mg/L | 0.10 | 0.050 | 1 | | 02/23/24 17:43 | 16984-48-8 | |
| Sulfate | **3.8** | mg/L | 1.0 | 0.50 | 1 | | 02/23/24 17:43 | 14808-79-8 | |

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# ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Sample: YAT-YGWA-17S** **Lab ID: 92714723008** Collected: 02/20/24 10:37 Received: 02/21/24 15:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **0.36J** | mg/L | 0.50 | 0.15 | 1 | 02/28/24 14:46 | 03/02/24 10:05 | 7440-09-7 | |
| Sodium | **15.0** | mg/L | 1.0 | 0.58 | 1 | 02/28/24 14:46 | 03/02/24 10:05 | 7440-23-5 | |
| Calcium | **3.2** | mg/L | 1.0 | 0.12 | 1 | 02/28/24 14:46 | 03/02/24 10:05 | 7440-70-2 | |
| Magnesium | **1.1** | mg/L | 0.050 | 0.012 | 1 | 02/28/24 14:46 | 03/02/24 10:05 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/28/24 12:45 | 03/01/24 16:48 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/28/24 12:45 | 03/01/24 16:48 | 7440-38-2 | |
| Barium | **0.017** | mg/L | 0.0050 | 0.00047 | 1 | 02/28/24 12:45 | 03/01/24 16:48 | 7440-39-3 | |
| Beryllium | **0.00010J** | mg/L | 0.00050 | 0.000094 | 1 | 02/28/24 12:45 | 03/01/24 16:48 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.012 | 1 | 02/28/24 12:45 | 03/01/24 16:48 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/28/24 12:45 | 03/01/24 16:48 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/28/24 12:45 | 03/01/24 16:48 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 02/28/24 12:45 | 03/01/24 16:48 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/28/24 12:45 | 03/01/24 16:48 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 02/28/24 12:45 | 03/01/24 16:48 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 02/28/24 12:45 | 03/01/24 16:48 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/28/24 12:45 | 03/01/24 16:48 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/28/24 12:45 | 03/01/24 16:48 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/07/24 12:00 | 03/07/24 15:15 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | **77.0** | mg/L | 25.0 | 25.0 | 1 | | 02/26/24 15:46 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **14.5** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 19:27 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 19:27 | | |
| Alkalinity, Total as CaCO3 | **14.5** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 19:27 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **12.2** | mg/L | 1.0 | 0.60 | 1 | | 02/23/24 17:58 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 02/23/24 17:58 | 16984-48-8 | |
| Sulfate | **4.6** | mg/L | 1.0 | 0.50 | 1 | | 02/23/24 17:58 | 14808-79-8 | |

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Huntersville, NC 28078
(704)875-9092

# ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Sample: YAT-YGWA-18I** **Lab ID: 92714723010** Collected: 02/20/24 12:48 Received: 02/21/24 15:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **0.95** | mg/L | 0.50 | 0.15 | 1 | 02/28/24 14:46 | 03/02/24 10:24 | 7440-09-7 | |
| Sodium | **12.6** | mg/L | 1.0 | 0.58 | 1 | 02/28/24 14:46 | 03/02/24 10:24 | 7440-23-5 | |
| Calcium | **5.6** | mg/L | 1.0 | 0.12 | 1 | 02/28/24 14:46 | 03/02/24 10:24 | 7440-70-2 | |
| Magnesium | **3.1** | mg/L | 0.050 | 0.012 | 1 | 02/28/24 14:46 | 03/02/24 10:24 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/28/24 12:45 | 03/01/24 16:56 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/28/24 12:45 | 03/01/24 16:56 | 7440-38-2 | |
| Barium | **0.020** | mg/L | 0.0050 | 0.00047 | 1 | 02/28/24 12:45 | 03/01/24 16:56 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/28/24 12:45 | 03/01/24 16:56 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.012 | 1 | 02/28/24 12:45 | 03/01/24 16:56 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/28/24 12:45 | 03/01/24 16:56 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/28/24 12:45 | 03/01/24 16:56 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 02/28/24 12:45 | 03/01/24 16:56 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/28/24 12:45 | 03/01/24 16:56 | 7439-92-1 | |
| Lithium | **0.0038J** | mg/L | 0.030 | 0.0016 | 1 | 02/28/24 12:45 | 03/01/24 16:56 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 02/28/24 12:45 | 03/01/24 16:56 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/28/24 12:45 | 03/01/24 16:56 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/28/24 12:45 | 03/01/24 16:56 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/07/24 12:00 | 03/07/24 15:23 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | **129** | mg/L | 25.0 | 25.0 | 1 | | 02/26/24 15:47 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **36.4** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 19:48 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 19:48 | | |
| Alkalinity, Total as CaCO3 | **36.4** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 19:48 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **7.6** | mg/L | 1.0 | 0.60 | 1 | | 02/23/24 18:27 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 02/23/24 18:27 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 02/23/24 18:27 | 14808-79-8 | |

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## ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Sample: YAT-UGRD-EB-1** **Lab ID: 92714723011** Collected: 02/20/24 17:15 Received: 02/21/24 15:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | ND | mg/L | 0.50 | 0.15 | 1 | 02/28/24 14:46 | 03/02/24 10:26 | 7440-09-7 | |
| Sodium | ND | mg/L | 1.0 | 0.58 | 1 | 02/28/24 14:46 | 03/02/24 10:26 | 7440-23-5 | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 02/28/24 14:46 | 03/02/24 10:26 | 7440-70-2 | |
| Magnesium | ND | mg/L | 0.050 | 0.012 | 1 | 02/28/24 14:46 | 03/02/24 10:26 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/28/24 12:45 | 03/01/24 17:01 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/28/24 12:45 | 03/01/24 17:01 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00047 | 1 | 02/28/24 12:45 | 03/01/24 17:01 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/28/24 12:45 | 03/01/24 17:01 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.012 | 1 | 02/28/24 12:45 | 03/01/24 17:01 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/28/24 12:45 | 03/01/24 17:01 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/28/24 12:45 | 03/01/24 17:01 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 02/28/24 12:45 | 03/01/24 17:01 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/28/24 12:45 | 03/01/24 17:01 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 02/28/24 12:45 | 03/01/24 17:01 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 02/28/24 12:45 | 03/01/24 17:01 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/28/24 12:45 | 03/01/24 17:01 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/28/24 12:45 | 03/01/24 17:01 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/07/24 12:00 | 03/07/24 15:26 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | **64.0** | mg/L | 25.0 | 25.0 | 1 | | 02/26/24 15:47 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 19:54 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 19:54 | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 19:54 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 02/23/24 11:47 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 02/23/24 11:47 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 02/23/24 11:47 | 14808-79-8 | |

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## ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Sample: YAT-UGRD-FB-1** **Lab ID: 92714723012** Collected: 02/20/24 15:35 Received: 02/21/24 15:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | ND | mg/L | 0.50 | 0.15 | 1 | 02/28/24 14:46 | 03/02/24 10:29 | 7440-09-7 | |
| Sodium | ND | mg/L | 1.0 | 0.58 | 1 | 02/28/24 14:46 | 03/02/24 10:29 | 7440-23-5 | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 02/28/24 14:46 | 03/02/24 10:29 | 7440-70-2 | |
| Magnesium | ND | mg/L | 0.050 | 0.012 | 1 | 02/28/24 14:46 | 03/02/24 10:29 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/28/24 12:45 | 03/01/24 17:05 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/28/24 12:45 | 03/01/24 17:05 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00047 | 1 | 02/28/24 12:45 | 03/01/24 17:05 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/28/24 12:45 | 03/01/24 17:05 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.012 | 1 | 02/28/24 12:45 | 03/01/24 17:05 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/28/24 12:45 | 03/01/24 17:05 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/28/24 12:45 | 03/01/24 17:05 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 02/28/24 12:45 | 03/01/24 17:05 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/28/24 12:45 | 03/01/24 17:05 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 02/28/24 12:45 | 03/01/24 17:05 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 02/28/24 12:45 | 03/01/24 17:05 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/28/24 12:45 | 03/01/24 17:05 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/28/24 12:45 | 03/01/24 17:05 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/07/24 12:00 | 03/07/24 15:28 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 25.0 | 25.0 | 1 | | 02/26/24 15:47 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 19:58 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 19:58 | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 19:58 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 02/23/24 12:02 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 02/23/24 12:02 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 02/23/24 12:02 | 14808-79-8 | |

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## ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Sample: YAT-UGRD-EB-2** **Lab ID: 92714723013** Collected: 02/20/24 15:55 Received: 02/21/24 15:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | ND | mg/L | 0.50 | 0.15 | 1 | 02/28/24 14:46 | 03/02/24 10:32 | 7440-09-7 | |
| Sodium | ND | mg/L | 1.0 | 0.58 | 1 | 02/28/24 14:46 | 03/02/24 10:32 | 7440-23-5 | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 02/28/24 14:46 | 03/02/24 10:32 | 7440-70-2 | |
| Magnesium | ND | mg/L | 0.050 | 0.012 | 1 | 02/28/24 14:46 | 03/02/24 10:32 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/28/24 12:45 | 03/01/24 17:09 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/28/24 12:45 | 03/01/24 17:09 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00047 | 1 | 02/28/24 12:45 | 03/01/24 17:09 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/28/24 12:45 | 03/01/24 17:09 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.012 | 1 | 02/28/24 12:45 | 03/01/24 17:09 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/28/24 12:45 | 03/01/24 17:09 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/28/24 12:45 | 03/01/24 17:09 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 02/28/24 12:45 | 03/01/24 17:09 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/28/24 12:45 | 03/01/24 17:09 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 02/28/24 12:45 | 03/01/24 17:09 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 02/28/24 12:45 | 03/01/24 17:09 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/28/24 12:45 | 03/01/24 17:09 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/28/24 12:45 | 03/01/24 17:09 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/07/24 12:00 | 03/07/24 15:31 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 25.0 | 25.0 | 1 | | 02/26/24 15:48 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 20:03 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 20:03 | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 20:03 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 02/23/24 12:17 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 02/23/24 12:17 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 02/23/24 12:17 | 14808-79-8 | |

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## ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Sample: YAT-UGRD-FB-2** **Lab ID: 92714723014** Collected: 02/20/24 17:00 Received: 02/21/24 15:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | ND | mg/L | 0.50 | 0.15 | 1 | 02/28/24 14:46 | 03/02/24 10:35 | 7440-09-7 | |
| Sodium | ND | mg/L | 1.0 | 0.58 | 1 | 02/28/24 14:46 | 03/02/24 10:35 | 7440-23-5 | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 02/28/24 14:46 | 03/02/24 10:35 | 7440-70-2 | |
| Magnesium | ND | mg/L | 0.050 | 0.012 | 1 | 02/28/24 14:46 | 03/02/24 10:35 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/28/24 12:45 | 03/01/24 17:13 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/28/24 12:45 | 03/01/24 17:13 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00047 | 1 | 02/28/24 12:45 | 03/01/24 17:13 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/28/24 12:45 | 03/01/24 17:13 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.012 | 1 | 02/28/24 12:45 | 03/01/24 17:13 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/28/24 12:45 | 03/01/24 17:13 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/28/24 12:45 | 03/01/24 17:13 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 02/28/24 12:45 | 03/01/24 17:13 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/28/24 12:45 | 03/01/24 17:13 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 02/28/24 12:45 | 03/01/24 17:13 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 02/28/24 12:45 | 03/01/24 17:13 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/28/24 12:45 | 03/01/24 17:13 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/28/24 12:45 | 03/01/24 17:13 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/07/24 12:00 | 03/07/24 15:34 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 25.0 | 25.0 | 1 | | 02/26/24 15:48 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 20:07 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 20:07 | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 20:07 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 02/23/24 12:31 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 02/23/24 12:31 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 02/23/24 12:31 | 14808-79-8 | |

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# ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Sample: YAT-YGWA-30I** **Lab ID: 92714723015** Collected: 02/20/24 16:25 Received: 02/21/24 15:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **0.55** | mg/L | 0.50 | 0.15 | 1 | 02/28/24 14:46 | 03/02/24 10:37 | 7440-09-7 | |
| Sodium | **5.8** | mg/L | 1.0 | 0.58 | 1 | 02/28/24 14:46 | 03/02/24 10:37 | 7440-23-5 | |
| Calcium | **1.3** | mg/L | 1.0 | 0.12 | 1 | 02/28/24 14:46 | 03/02/24 10:37 | 7440-70-2 | |
| Magnesium | **0.89** | mg/L | 0.050 | 0.012 | 1 | 02/28/24 14:46 | 03/02/24 10:37 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/28/24 12:45 | 03/01/24 17:17 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/28/24 12:45 | 03/01/24 17:17 | 7440-38-2 | |
| Barium | **0.0064** | mg/L | 0.0050 | 0.00047 | 1 | 02/28/24 12:45 | 03/01/24 17:17 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/28/24 12:45 | 03/01/24 17:17 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.012 | 1 | 02/28/24 12:45 | 03/01/24 17:17 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/28/24 12:45 | 03/01/24 17:17 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/28/24 12:45 | 03/01/24 17:17 | 7440-47-3 | |
| Cobalt | **0.0029J** | mg/L | 0.0050 | 0.00032 | 1 | 02/28/24 12:45 | 03/01/24 17:17 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/28/24 12:45 | 03/01/24 17:17 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 02/28/24 12:45 | 03/01/24 17:17 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 02/28/24 12:45 | 03/01/24 17:17 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/28/24 12:45 | 03/01/24 17:17 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/28/24 12:45 | 03/01/24 17:17 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/07/24 12:00 | 03/07/24 15:36 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | **55.0** | mg/L | 25.0 | 25.0 | 1 | | 02/26/24 15:48 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **15.7** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 20:11 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 20:11 | | |
| Alkalinity, Total as CaCO3 | **15.7** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 20:11 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **1.4** | mg/L | 1.0 | 0.60 | 1 | | 02/23/24 19:12 | 16887-00-6 | |
| Fluoride | **0.051J** | mg/L | 0.10 | 0.050 | 1 | | 02/23/24 19:12 | 16984-48-8 | |
| Sulfate | **0.69J** | mg/L | 1.0 | 0.50 | 1 | | 02/23/24 19:12 | 14808-79-8 | |

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# ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Sample: YAT-YGWA-3I** **Lab ID: 92714723016** Collected: 02/20/24 13:50 Received: 02/21/24 15:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **5.0** | mg/L | 0.50 | 0.15 | 1 | 02/28/24 14:46 | 03/02/24 10:45 | 7440-09-7 | |
| Sodium | **9.2** | mg/L | 1.0 | 0.58 | 1 | 02/28/24 14:46 | 03/02/24 10:45 | 7440-23-5 | |
| Calcium | **23.7** | mg/L | 1.0 | 0.12 | 1 | 02/28/24 14:46 | 03/02/24 10:45 | 7440-70-2 | |
| Magnesium | **5.3** | mg/L | 0.050 | 0.012 | 1 | 02/28/24 14:46 | 03/02/24 10:45 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/28/24 12:45 | 03/01/24 17:47 | 7440-36-0 | |
| Arsenic | **0.0013J** | mg/L | 0.0050 | 0.00084 | 1 | 02/28/24 12:45 | 03/01/24 17:47 | 7440-38-2 | |
| Barium | **0.0032J** | mg/L | 0.0050 | 0.00047 | 1 | 02/28/24 12:45 | 03/01/24 17:47 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/28/24 12:45 | 03/01/24 17:47 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.012 | 1 | 02/28/24 12:45 | 03/01/24 17:47 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/28/24 12:45 | 03/01/24 17:47 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/28/24 12:45 | 03/01/24 17:47 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 02/28/24 12:45 | 03/01/24 17:47 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/28/24 12:45 | 03/01/24 17:47 | 7439-92-1 | |
| Lithium | **0.020J** | mg/L | 0.030 | 0.0016 | 1 | 02/28/24 12:45 | 03/01/24 17:47 | 7439-93-2 | |
| Molybdenum | **0.0089J** | mg/L | 0.010 | 0.00062 | 1 | 02/28/24 12:45 | 03/01/24 17:47 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/28/24 12:45 | 03/01/24 17:47 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/28/24 12:45 | 03/01/24 17:47 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/07/24 12:00 | 03/07/24 15:39 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | **220** | mg/L | 25.0 | 25.0 | 1 | | 02/26/24 15:49 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **90.2** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 20:17 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 20:17 | | |
| Alkalinity, Total as CaCO3 | **90.2** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 20:17 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **1.1** | mg/L | 1.0 | 0.60 | 1 | | 02/23/24 20:26 | 16887-00-6 | |
| Fluoride | **0.12** | mg/L | 0.10 | 0.050 | 1 | | 02/23/24 20:26 | 16984-48-8 | |
| Sulfate | **13.8** | mg/L | 1.0 | 0.50 | 1 | | 02/23/24 20:26 | 14808-79-8 | |

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# ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Sample: YAT-YGWA-3D** **Lab ID: 92714723017** Collected: 02/20/24 11:35 Received: 02/21/24 15:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **3.5** | mg/L | 0.50 | 0.15 | 1 | 02/28/24 14:46 | 03/02/24 10:48 | 7440-09-7 | |
| Sodium | **10.0** | mg/L | 1.0 | 0.58 | 1 | 02/28/24 14:46 | 03/02/24 10:48 | 7440-23-5 | |
| Calcium | **30.7** | mg/L | 1.0 | 0.12 | 1 | 02/28/24 14:46 | 03/02/24 10:48 | 7440-70-2 | |
| Magnesium | **3.7** | mg/L | 0.050 | 0.012 | 1 | 02/28/24 14:46 | 03/02/24 10:48 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/28/24 12:45 | 03/01/24 17:51 | 7440-36-0 | |
| Arsenic | **0.0027J** | mg/L | 0.0050 | 0.00084 | 1 | 02/28/24 12:45 | 03/01/24 17:51 | 7440-38-2 | |
| Barium | **0.0045J** | mg/L | 0.0050 | 0.00047 | 1 | 02/28/24 12:45 | 03/01/24 17:51 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/28/24 12:45 | 03/01/24 17:51 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.012 | 1 | 02/28/24 12:45 | 03/01/24 17:51 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/28/24 12:45 | 03/01/24 17:51 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/28/24 12:45 | 03/01/24 17:51 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 02/28/24 12:45 | 03/01/24 17:51 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/28/24 12:45 | 03/01/24 17:51 | 7439-92-1 | |
| Lithium | **0.021J** | mg/L | 0.030 | 0.0016 | 1 | 02/28/24 12:45 | 03/01/24 17:51 | 7439-93-2 | |
| Molybdenum | **0.013** | mg/L | 0.010 | 0.00062 | 1 | 02/28/24 12:45 | 03/01/24 17:51 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/28/24 12:45 | 03/01/24 17:51 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/28/24 12:45 | 03/01/24 17:51 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/07/24 12:00 | 03/07/24 15:41 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | **294** | mg/L | 25.0 | 25.0 | 1 | | 02/26/24 15:49 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **108** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 20:25 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 20:25 | | |
| Alkalinity, Total as CaCO3 | **108** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 20:25 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **1.1** | mg/L | 1.0 | 0.60 | 1 | | 02/23/24 20:40 | 16887-00-6 | |
| Fluoride | **0.45** | mg/L | 0.10 | 0.050 | 1 | | 02/23/24 20:40 | 16984-48-8 | |
| Sulfate | **7.0** | mg/L | 1.0 | 0.50 | 1 | | 02/23/24 20:40 | 14808-79-8 | |

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# ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Sample: YAT-YGWA-39** **Lab ID: 92714723019** Collected: 02/20/24 13:58 Received: 02/21/24 15:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **5.8** | mg/L | 0.50 | 0.15 | 1 | 02/28/24 14:46 | 03/02/24 10:54 | 7440-09-7 | |
| Sodium | **25.2** | mg/L | 1.0 | 0.58 | 1 | 02/28/24 14:46 | 03/02/24 10:54 | 7440-23-5 | |
| Calcium | **16.9** | mg/L | 1.0 | 0.12 | 1 | 02/28/24 14:46 | 03/02/24 10:54 | 7440-70-2 | |
| Magnesium | **21.2** | mg/L | 0.050 | 0.012 | 1 | 02/28/24 14:46 | 03/02/24 10:54 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/28/24 12:45 | 03/01/24 18:00 | 7440-36-0 | |
| Arsenic | **0.0020J** | mg/L | 0.0050 | 0.00084 | 1 | 02/28/24 12:45 | 03/01/24 18:00 | 7440-38-2 | |
| Barium | **0.029** | mg/L | 0.0050 | 0.00047 | 1 | 02/28/24 12:45 | 03/01/24 18:00 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/28/24 12:45 | 03/01/24 18:00 | 7440-41-7 | |
| Boron | **0.12** | mg/L | 0.040 | 0.012 | 1 | 02/28/24 12:45 | 03/01/24 18:00 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/28/24 12:45 | 03/01/24 18:00 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/28/24 12:45 | 03/01/24 18:00 | 7440-47-3 | |
| Cobalt | **0.00073J** | mg/L | 0.0050 | 0.00032 | 1 | 02/28/24 12:45 | 03/01/24 18:00 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/28/24 12:45 | 03/01/24 18:00 | 7439-92-1 | |
| Lithium | **0.0059J** | mg/L | 0.030 | 0.0016 | 1 | 02/28/24 12:45 | 03/01/24 18:00 | 7439-93-2 | |
| Molybdenum | **0.0058J** | mg/L | 0.010 | 0.00062 | 1 | 02/28/24 12:45 | 03/01/24 18:00 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/28/24 12:45 | 03/01/24 18:00 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/28/24 12:45 | 03/01/24 18:00 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/07/24 12:00 | 03/07/24 15:49 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | **233** | mg/L | 25.0 | 25.0 | 1 | | 02/26/24 15:50 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **183** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 20:49 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 20:49 | | |
| Alkalinity, Total as CaCO3 | **183** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 20:49 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **4.6** | mg/L | 1.0 | 0.60 | 1 | | 02/23/24 21:10 | 16887-00-6 | |
| Fluoride | **0.063J** | mg/L | 0.10 | 0.050 | 1 | | 02/23/24 21:10 | 16984-48-8 | |
| Sulfate | **8.6** | mg/L | 1.0 | 0.50 | 1 | | 02/23/24 21:10 | 14808-79-8 | |

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# ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Sample: YAT-YGWA-40** **Lab ID: 92714723020** Collected: 02/20/24 15:10 Received: 02/21/24 15:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **2.0** | mg/L | 0.50 | 0.15 | 1 | 02/28/24 14:46 | 03/02/24 11:39 | 7440-09-7 | |
| Sodium | **10.1** | mg/L | 1.0 | 0.58 | 1 | 02/28/24 14:46 | 03/02/24 11:39 | 7440-23-5 | |
| Calcium | **5.6** | mg/L | 1.0 | 0.12 | 1 | 02/28/24 14:46 | 03/02/24 11:39 | 7440-70-2 | |
| Magnesium | **3.2** | mg/L | 0.050 | 0.012 | 1 | 02/28/24 14:46 | 03/02/24 11:39 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/28/24 12:45 | 03/01/24 18:04 | 7440-36-0 | |
| Arsenic | **0.0012J** | mg/L | 0.0050 | 0.00084 | 1 | 02/28/24 12:45 | 03/01/24 18:04 | 7440-38-2 | |
| Barium | **0.033** | mg/L | 0.0050 | 0.00047 | 1 | 02/28/24 12:45 | 03/01/24 18:04 | 7440-39-3 | |
| Beryllium | **0.00025J** | mg/L | 0.00050 | 0.000094 | 1 | 02/28/24 12:45 | 03/01/24 18:04 | 7440-41-7 | |
| Boron | **0.056** | mg/L | 0.040 | 0.012 | 1 | 02/28/24 12:45 | 03/01/24 18:04 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/28/24 12:45 | 03/01/24 18:04 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/28/24 12:45 | 03/01/24 18:04 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 02/28/24 12:45 | 03/01/24 18:04 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/28/24 12:45 | 03/01/24 18:04 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 02/28/24 12:45 | 03/01/24 18:04 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 02/28/24 12:45 | 03/01/24 18:04 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/28/24 12:45 | 03/01/24 18:04 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/28/24 12:45 | 03/01/24 18:04 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | **0.00032** | mg/L | 0.00020 | 0.00013 | 1 | 03/07/24 12:00 | 03/07/24 15:52 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | **109** | mg/L | 25.0 | 25.0 | 1 | | 02/26/24 15:50 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **24.7** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 21:04 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 21:04 | | |
| Alkalinity, Total as CaCO3 | **24.7** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 21:04 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **5.7** | mg/L | 1.0 | 0.60 | 1 | | 02/23/24 21:25 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 02/23/24 21:25 | 16984-48-8 | |
| Sulfate | **17.2** | mg/L | 1.0 | 0.50 | 1 | | 02/23/24 21:25 | 14808-79-8 | |

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# ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Sample: YAT-YGWA-1I** **Lab ID: 92714723021** Collected: 02/20/24 12:02 Received: 02/21/24 15:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **2.2** | mg/L | 0.50 | 0.15 | 1 | 02/28/24 18:17 | 03/02/24 08:45 | 7440-09-7 | |
| Sodium | **5.5** | mg/L | 1.0 | 0.58 | 1 | 02/28/24 18:17 | 03/02/24 08:45 | 7440-23-5 | |
| Calcium | **2.2** | mg/L | 1.0 | 0.12 | 1 | 02/28/24 18:17 | 03/02/24 08:45 | 7440-70-2 | |
| Magnesium | **1.0** | mg/L | 0.050 | 0.012 | 1 | 02/28/24 18:17 | 03/02/24 08:45 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/28/24 13:54 | 03/01/24 18:29 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/28/24 13:54 | 03/01/24 18:29 | 7440-38-2 | |
| Barium | **0.0040J** | mg/L | 0.0050 | 0.00047 | 1 | 02/28/24 13:54 | 03/01/24 18:29 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/28/24 13:54 | 03/01/24 18:29 | 7440-41-7 | |
| Boron | **0.014J** | mg/L | 0.040 | 0.012 | 1 | 02/28/24 13:54 | 03/01/24 18:29 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/28/24 13:54 | 03/01/24 18:29 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/28/24 13:54 | 03/01/24 18:29 | 7440-47-3 | |
| Cobalt | **0.0018J** | mg/L | 0.0050 | 0.00032 | 1 | 02/28/24 13:54 | 03/01/24 18:29 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/28/24 13:54 | 03/01/24 18:29 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 02/28/24 13:54 | 03/01/24 18:29 | 7439-93-2 | |
| Molybdenum | **0.030** | mg/L | 0.010 | 0.00062 | 1 | 02/28/24 13:54 | 03/01/24 18:29 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/28/24 13:54 | 03/01/24 18:29 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/28/24 13:54 | 03/01/24 18:29 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/07/24 12:00 | 03/07/24 15:55 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | **59.0** | mg/L | 25.0 | 25.0 | 1 | | 02/26/24 15:50 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **17.9** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 21:23 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 21:23 | | |
| Alkalinity, Total as CaCO3 | **17.9** | mg/L | 5.0 | 5.0 | 1 | | 02/23/24 21:23 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **1.2** | mg/L | 1.0 | 0.60 | 1 | | 02/23/24 21:40 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 02/23/24 21:40 | 16984-48-8 | |
| Sulfate | **4.3** | mg/L | 1.0 | 0.50 | 1 | | 02/23/24 21:40 | 14808-79-8 | |

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# ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Sample: YAT-YGWA-1D** **Lab ID: 92714723022** Collected: 02/20/24 13:24 Received: 02/21/24 15:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **3.8** | mg/L | 0.50 | 0.15 | 1 | 02/28/24 18:17 | 03/02/24 08:54 | 7440-09-7 | |
| Sodium | **10** | mg/L | 1.0 | 0.58 | 1 | 02/28/24 18:17 | 03/02/24 08:54 | 7440-23-5 | |
| Calcium | **15.3** | mg/L | 1.0 | 0.12 | 1 | 02/28/24 18:17 | 03/02/24 08:54 | 7440-70-2 | |
| Magnesium | **2.0** | mg/L | 0.050 | 0.012 | 1 | 02/28/24 18:17 | 03/02/24 08:54 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | **0.0023J** | mg/L | 0.0030 | 0.00054 | 1 | 02/28/24 13:54 | 03/01/24 18:45 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/28/24 13:54 | 03/01/24 18:45 | 7440-38-2 | |
| Barium | **0.0062** | mg/L | 0.0050 | 0.00047 | 1 | 02/28/24 13:54 | 03/01/24 18:45 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/28/24 13:54 | 03/01/24 18:45 | 7440-41-7 | |
| Boron | **0.015J** | mg/L | 0.040 | 0.012 | 1 | 02/28/24 13:54 | 03/01/24 18:45 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/28/24 13:54 | 03/01/24 18:45 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/28/24 13:54 | 03/01/24 18:45 | 7440-47-3 | |
| Cobalt | **0.00055J** | mg/L | 0.0050 | 0.00032 | 1 | 02/28/24 13:54 | 03/01/24 18:45 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/28/24 13:54 | 03/01/24 18:45 | 7439-92-1 | |
| Lithium | **0.0071J** | mg/L | 0.030 | 0.0016 | 1 | 02/28/24 13:54 | 03/01/24 18:45 | 7439-93-2 | |
| Molybdenum | **0.0098J** | mg/L | 0.010 | 0.00062 | 1 | 02/28/24 13:54 | 03/01/24 18:45 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/28/24 13:54 | 03/01/24 18:45 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/28/24 13:54 | 03/01/24 18:45 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/07/24 12:00 | 03/07/24 15:57 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | **130** | mg/L | 25.0 | 25.0 | 1 | | 02/26/24 17:48 | | D6 |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **61.2** | mg/L | 5.0 | 5.0 | 1 | | 02/27/24 17:28 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/27/24 17:28 | | |
| Alkalinity, Total as CaCO3 | **61.2** | mg/L | 5.0 | 5.0 | 1 | | 02/27/24 17:28 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **1.0** | mg/L | 1.0 | 0.60 | 1 | | 02/23/24 21:54 | 16887-00-6 | |
| Fluoride | **0.086J** | mg/L | 0.10 | 0.050 | 1 | | 02/23/24 21:54 | 16984-48-8 | |
| Sulfate | **9.7** | mg/L | 1.0 | 0.50 | 1 | | 02/23/24 21:54 | 14808-79-8 | |

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# ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Sample: YAT-YGWA-2I** **Lab ID: 92714723023** Collected: 02/20/24 16:02 Received: 02/21/24 15:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **5.6** | mg/L | 0.50 | 0.15 | 1 | 02/28/24 18:17 | 03/02/24 08:56 | 7440-09-7 | |
| Sodium | **9.4** | mg/L | 1.0 | 0.58 | 1 | 02/28/24 18:17 | 03/02/24 08:56 | 7440-23-5 | |
| Calcium | **28.2** | mg/L | 1.0 | 0.12 | 1 | 02/28/24 18:17 | 03/02/24 08:56 | 7440-70-2 | |
| Magnesium | **4.4** | mg/L | 0.050 | 0.012 | 1 | 02/28/24 18:17 | 03/02/24 08:56 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | **0.00067J** | mg/L | 0.0030 | 0.00054 | 1 | 02/28/24 13:54 | 03/01/24 18:49 | 7440-36-0 | |
| Arsenic | **0.0019J** | mg/L | 0.0050 | 0.00084 | 1 | 02/28/24 13:54 | 03/01/24 18:49 | 7440-38-2 | |
| Barium | **0.0044J** | mg/L | 0.0050 | 0.00047 | 1 | 02/28/24 13:54 | 03/01/24 18:49 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/28/24 13:54 | 03/01/24 18:49 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.012 | 1 | 02/28/24 13:54 | 03/01/24 18:49 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/28/24 13:54 | 03/01/24 18:49 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/28/24 13:54 | 03/01/24 18:49 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 02/28/24 13:54 | 03/01/24 18:49 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/28/24 13:54 | 03/01/24 18:49 | 7439-92-1 | |
| Lithium | **0.0021J** | mg/L | 0.030 | 0.0016 | 1 | 02/28/24 13:54 | 03/01/24 18:49 | 7439-93-2 | |
| Molybdenum | **0.0076J** | mg/L | 0.010 | 0.00062 | 1 | 02/28/24 13:54 | 03/01/24 18:49 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/28/24 13:54 | 03/01/24 18:49 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/28/24 13:54 | 03/01/24 18:49 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/07/24 13:00 | 03/08/24 07:49 | 7439-97-6 | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | **159** | mg/L | 25.0 | 25.0 | 1 | | 02/26/24 17:49 | | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **84.2** | mg/L | 5.0 | 5.0 | 1 | | 02/27/24 17:35 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 02/27/24 17:35 | | |
| Alkalinity, Total as CaCO3 | **84.2** | mg/L | 5.0 | 5.0 | 1 | | 02/27/24 17:35 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **0.96J** | mg/L | 1.0 | 0.60 | 1 | | 02/23/24 22:09 | 16887-00-6 | |
| Fluoride | **0.10** | mg/L | 0.10 | 0.050 | 1 | | 02/23/24 22:09 | 16984-48-8 | |
| Sulfate | **23.1** | mg/L | 1.0 | 0.50 | 1 | | 02/23/24 22:09 | 14808-79-8 | |

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# ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Sample: YAT-YGWA-14S** **Lab ID: 92714723024** Collected: 02/23/24 11:00 Received: 02/24/24 11:33 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **0.89** | mg/L | 0.50 | 0.15 | 1 | 02/29/24 14:43 | 03/04/24 18:20 | 7440-09-7 | |
| Sodium | **10.1** | mg/L | 1.0 | 0.58 | 1 | 02/29/24 14:43 | 03/04/24 18:20 | 7440-23-5 | |
| Calcium | **1.6** | mg/L | 1.0 | 0.12 | 1 | 02/29/24 14:43 | 03/04/24 18:20 | 7440-70-2 | |
| Magnesium | **1.8** | mg/L | 0.050 | 0.012 | 1 | 02/29/24 14:43 | 03/04/24 18:20 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/29/24 09:00 | 03/05/24 15:59 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/29/24 09:00 | 03/05/24 15:59 | 7440-38-2 | |
| Barium | **0.0096** | mg/L | 0.0050 | 0.00047 | 1 | 02/29/24 09:00 | 03/05/24 15:59 | 7440-39-3 | |
| Beryllium | **0.00024J** | mg/L | 0.00050 | 0.000094 | 1 | 02/29/24 09:00 | 03/05/24 15:59 | 7440-41-7 | |
| Boron | **0.037J** | mg/L | 0.040 | 0.012 | 1 | 02/29/24 09:00 | 03/05/24 15:59 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/29/24 09:00 | 03/05/24 15:59 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/29/24 09:00 | 03/05/24 15:59 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 02/29/24 09:00 | 03/05/24 15:59 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/29/24 09:00 | 03/05/24 15:59 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 02/29/24 09:00 | 03/05/24 15:59 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 02/29/24 09:00 | 03/05/24 15:59 | 7439-98-7 | |
| Selenium | **0.0010J** | mg/L | 0.0050 | 0.00096 | 1 | 02/29/24 09:00 | 03/05/24 15:59 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/29/24 09:00 | 03/05/24 15:59 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/07/24 13:00 | 03/08/24 07:51 | 7439-97-6 | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **14.4** | mg/L | 5.0 | 5.0 | 1 | | 03/05/24 17:55 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 03/05/24 17:55 | | |
| Alkalinity, Total as CaCO3 | **14.4** | mg/L | 5.0 | 5.0 | 1 | | 03/05/24 17:55 | | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Asheville | | | | | | | | |
| Total Dissolved Solids | **64.0** | mg/L | 25.0 | 25.0 | 1 | | 02/27/24 11:04 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **4.8** | mg/L | 1.0 | 0.60 | 1 | | 02/27/24 04:05 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 02/27/24 04:05 | 16984-48-8 | |
| Sulfate | **7.1** | mg/L | 1.0 | 0.50 | 1 | | 02/27/24 04:05 | 14808-79-8 | |

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# ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Sample: YAT-YGWA-18S** **Lab ID: 92714723025** Collected: 02/23/24 09:25 Received: 02/24/24 11:33 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **0.62** | mg/L | 0.50 | 0.15 | 1 | 02/29/24 15:04 | 03/04/24 15:44 | 7440-09-7 | B |
| Calcium | **0.84J** | mg/L | 1.0 | 0.12 | 1 | 02/29/24 15:04 | 03/04/24 15:44 | 7440-70-2 | |
| Magnesium | **1.0** | mg/L | 0.050 | 0.012 | 1 | 02/29/24 15:04 | 03/04/24 15:44 | 7439-95-4 | |
| Sodium | **8.6** | mg/L | 1.0 | 0.58 | 1 | 02/29/24 15:04 | 03/05/24 18:28 | 7440-23-5 | M1 |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/29/24 09:00 | 03/05/24 16:03 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/29/24 09:00 | 03/05/24 16:03 | 7440-38-2 | |
| Barium | **0.013** | mg/L | 0.0050 | 0.00047 | 1 | 02/29/24 09:00 | 03/05/24 16:03 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/29/24 09:00 | 03/05/24 16:03 | 7440-41-7 | |
| Boron | **0.018J** | mg/L | 0.040 | 0.012 | 1 | 02/29/24 09:00 | 03/05/24 16:03 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/29/24 09:00 | 03/05/24 16:03 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/29/24 09:00 | 03/05/24 16:03 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 02/29/24 09:00 | 03/05/24 16:03 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/29/24 09:00 | 03/05/24 16:03 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 02/29/24 09:00 | 03/05/24 16:03 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 02/29/24 09:00 | 03/05/24 16:03 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/29/24 09:00 | 03/05/24 16:03 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/29/24 09:00 | 03/05/24 16:03 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/07/24 13:00 | 03/08/24 07:59 | 7439-97-6 | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **8.7** | mg/L | 5.0 | 5.0 | 1 | | 03/05/24 18:01 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 03/05/24 18:01 | | |
| Alkalinity, Total as CaCO3 | **8.7** | mg/L | 5.0 | 5.0 | 1 | | 03/05/24 18:01 | | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Asheville | | | | | | | | |
| Total Dissolved Solids | **52.0** | mg/L | 25.0 | 25.0 | 1 | | 02/27/24 11:04 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **6.6** | mg/L | 1.0 | 0.60 | 1 | | 02/27/24 04:19 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 02/27/24 04:19 | 16984-48-8 | |
| Sulfate | **0.79J** | mg/L | 1.0 | 0.50 | 1 | | 02/27/24 04:19 | 14808-79-8 | |

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## ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Sample: YAT-UGRD-FD-1** **Lab ID: 92714723026** Collected: 02/23/24 00:00 Received: 02/24/24 11:33 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **0.90** | mg/L | 0.50 | 0.15 | 1 | 02/29/24 15:04 | 03/04/24 15:53 | 7440-09-7 | B |
| Calcium | **1.6** | mg/L | 1.0 | 0.12 | 1 | 02/29/24 15:04 | 03/04/24 15:53 | 7440-70-2 | |
| Magnesium | **1.7** | mg/L | 0.050 | 0.012 | 1 | 02/29/24 15:04 | 03/04/24 15:53 | 7439-95-4 | |
| Sodium | **10.4** | mg/L | 1.0 | 0.58 | 1 | 02/29/24 15:04 | 03/05/24 18:43 | 7440-23-5 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/29/24 09:00 | 03/05/24 16:06 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/29/24 09:00 | 03/05/24 16:06 | 7440-38-2 | |
| Barium | **0.0093** | mg/L | 0.0050 | 0.00047 | 1 | 02/29/24 09:00 | 03/05/24 16:06 | 7440-39-3 | |
| Beryllium | **0.00024J** | mg/L | 0.00050 | 0.000094 | 1 | 02/29/24 09:00 | 03/05/24 16:06 | 7440-41-7 | |
| Boron | **0.027J** | mg/L | 0.040 | 0.012 | 1 | 02/29/24 09:00 | 03/05/24 16:06 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/29/24 09:00 | 03/05/24 16:06 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/29/24 09:00 | 03/05/24 16:06 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 02/29/24 09:00 | 03/05/24 16:06 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/29/24 09:00 | 03/05/24 16:06 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 02/29/24 09:00 | 03/05/24 16:06 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 02/29/24 09:00 | 03/05/24 16:06 | 7439-98-7 | |
| Selenium | **0.0011J** | mg/L | 0.0050 | 0.00096 | 1 | 02/29/24 09:00 | 03/05/24 16:06 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/29/24 09:00 | 03/05/24 16:06 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/07/24 13:00 | 03/08/24 08:02 | 7439-97-6 | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **14.6** | mg/L | 5.0 | 5.0 | 1 | | 03/05/24 18:06 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 03/05/24 18:06 | | |
| Alkalinity, Total as CaCO3 | **14.6** | mg/L | 5.0 | 5.0 | 1 | | 03/05/24 18:06 | | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Asheville | | | | | | | | |
| Total Dissolved Solids | **73.0** | mg/L | 25.0 | 25.0 | 1 | | 02/27/24 11:04 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **4.7** | mg/L | 1.0 | 0.60 | 1 | | 02/27/24 05:02 | 16887-00-6 | |
| Fluoride | **0.055J** | mg/L | 0.10 | 0.050 | 1 | | 02/27/24 05:02 | 16984-48-8 | |
| Sulfate | **7.0** | mg/L | 1.0 | 0.50 | 1 | | 02/27/24 05:02 | 14808-79-8 | |

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# ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

**Sample: YAT-UGRD-FD-2** **Lab ID: 92714723027** Collected: 02/23/24 00:00 Received: 02/24/24 11:33 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D ATL ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Potassium | **0.63** | mg/L | 0.50 | 0.15 | 1 | 02/29/24 15:04 | 03/04/24 16:01 | 7440-09-7 | B |
| Sodium | **9.0** | mg/L | 1.0 | 0.58 | 1 | 02/29/24 15:04 | 03/04/24 16:01 | 7440-23-5 | |
| Calcium | **0.87J** | mg/L | 1.0 | 0.12 | 1 | 02/29/24 15:04 | 03/04/24 16:01 | 7440-70-2 | |
| Magnesium | **1.0** | mg/L | 0.050 | 0.012 | 1 | 02/29/24 15:04 | 03/04/24 16:01 | 7439-95-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020B Preparation Method: EPA 3005A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 02/29/24 09:00 | 03/05/24 16:10 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00084 | 1 | 02/29/24 09:00 | 03/05/24 16:10 | 7440-38-2 | |
| Barium | **0.013** | mg/L | 0.0050 | 0.00047 | 1 | 02/29/24 09:00 | 03/05/24 16:10 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 02/29/24 09:00 | 03/05/24 16:10 | 7440-41-7 | |
| Boron | **0.012J** | mg/L | 0.040 | 0.012 | 1 | 02/29/24 09:00 | 03/05/24 16:10 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 02/29/24 09:00 | 03/05/24 16:10 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 02/29/24 09:00 | 03/05/24 16:10 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 02/29/24 09:00 | 03/05/24 16:10 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 02/29/24 09:00 | 03/05/24 16:10 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 02/29/24 09:00 | 03/05/24 16:10 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 02/29/24 09:00 | 03/05/24 16:10 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 02/29/24 09:00 | 03/05/24 16:10 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 02/29/24 09:00 | 03/05/24 16:10 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 03/07/24 13:00 | 03/08/24 08:05 | 7439-97-6 | |
| **2320B Alkalinity** | Analytical Method: SM 2320B-2011<br>Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | **8.8** | mg/L | 5.0 | 5.0 | 1 | | 03/05/24 18:12 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 03/05/24 18:12 | | |
| Alkalinity, Total as CaCO3 | **8.8** | mg/L | 5.0 | 5.0 | 1 | | 03/05/24 18:12 | | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C-2015<br>Pace Analytical Services - Asheville | | | | | | | | |
| Total Dissolved Solids | **53.0** | mg/L | 25.0 | 25.0 | 1 | | 02/27/24 11:04 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 Rev 2.1 1993<br>Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | **6.7** | mg/L | 1.0 | 0.60 | 1 | | 02/27/24 05:16 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 02/27/24 05:16 | 16984-48-8 | |
| Sulfate | **0.79J** | mg/L | 1.0 | 0.50 | 1 | | 02/27/24 05:16 | 14808-79-8 | |

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# QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835565
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723001, 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007

METHOD BLANK: 4316637 Matrix: Water
Associated Lab Samples: 92714723001, 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Calcium | mg/L | ND | 1.0 | 0.12 | 03/01/24 18:56 | |
| Magnesium | mg/L | ND | 0.050 | 0.012 | 03/01/24 18:56 | |
| Potassium | mg/L | ND | 0.50 | 0.15 | 03/01/24 18:56 | |
| Sodium | mg/L | ND | 1.0 | 0.58 | 03/01/24 18:56 | |

LABORATORY CONTROL SAMPLE: 4316638

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Calcium | mg/L | 1 | 1.0 | 103 | 80-120 | |
| Magnesium | mg/L | 1 | 1.0 | 104 | 80-120 | |
| Potassium | mg/L | 1 | 0.98 | 98 | 80-120 | |
| Sodium | mg/L | 1 | 1.0 | 103 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4316639 4316640

| Parameter | Units | 92714171017 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | mg/L | 74.2 | 1 | 1 | 75.9 | 73.0 | 171 | -120 | 75-125 | 4 | 20 | M1 |
| Magnesium | mg/L | 35.5 | 1 | 1 | 37.1 | 35.6 | 160 | 10 | 75-125 | 4 | 20 | M1 |
| Potassium | mg/L | 1.5 | 1 | 1 | 2.5 | 2.3 | 96 | 85 | 75-125 | 5 | 20 | |
| Sodium | mg/L | 41.2 | 1 | 1 | 42.6 | 40.9 | 137 | -39 | 75-125 | 4 | 20 | M1 |

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# QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835581
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020

METHOD BLANK: 4316732 Matrix: Water
Associated Lab Samples: 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Calcium | mg/L | ND | 1.0 | 0.12 | 03/02/24 10:00 | |
| Magnesium | mg/L | ND | 0.050 | 0.012 | 03/02/24 10:00 | |
| Potassium | mg/L | ND | 0.50 | 0.15 | 03/02/24 10:00 | |
| Sodium | mg/L | ND | 1.0 | 0.58 | 03/02/24 10:00 | |

LABORATORY CONTROL SAMPLE: 4316733

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Calcium | mg/L | 1 | 1.0 | 103 | 80-120 | |
| Magnesium | mg/L | 1 | 1.0 | 104 | 80-120 | |
| Potassium | mg/L | 1 | 0.96 | 96 | 80-120 | |
| Sodium | mg/L | 1 | 1.1 | 112 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4316734 4316735

| Parameter | Units | 92714723008 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | mg/L | 3.2 | 1 | 1 | 4.3 | 4.3 | 116 | 109 | 75-125 | 2 | 20 | |
| Magnesium | mg/L | 1.1 | 1 | 1 | 2.1 | 2.1 | 107 | 103 | 75-125 | 2 | 20 | |
| Potassium | mg/L | 0.36J | 1 | 1 | 1.4 | 1.3 | 100 | 97 | 75-125 | 2 | 20 | |
| Sodium | mg/L | 15.0 | 1 | 1 | 16.1 | 15.8 | 111 | 81 | 75-125 | 2 | 20 | |

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# QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835638
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723021, 92714723022, 92714723023

METHOD BLANK: 4317188 Matrix: Water
Associated Lab Samples: 92714723021, 92714723022, 92714723023

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Calcium | mg/L | ND | 1.0 | 0.12 | 03/02/24 08:40 | |
| Magnesium | mg/L | ND | 0.050 | 0.012 | 03/02/24 08:40 | |
| Potassium | mg/L | ND | 0.50 | 0.15 | 03/02/24 08:40 | |
| Sodium | mg/L | ND | 1.0 | 0.58 | 03/02/24 08:40 | |

LABORATORY CONTROL SAMPLE: 4317189

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Calcium | mg/L | 1 | 0.99J | 99 | 80-120 | |
| Magnesium | mg/L | 1 | 1.0 | 100 | 80-120 | |
| Potassium | mg/L | 1 | 0.91 | 91 | 80-120 | |
| Sodium | mg/L | 1 | 0.97J | 97 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4317190 4317191

| Parameter | Units | 92714723021 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | mg/L | 2.2 | 1 | 1 | 3.2 | 3.2 | 100 | 101 | 75-125 | 0 | 20 | |
| Magnesium | mg/L | 1.0 | 1 | 1 | 2.0 | 2.1 | 100 | 104 | 75-125 | 2 | 20 | |
| Potassium | mg/L | 2.2 | 1 | 1 | 3.1 | 3.2 | 97 | 106 | 75-125 | 3 | 20 | |
| Sodium | mg/L | 5.5 | 1 | 1 | 6.4 | 6.5 | 92 | 106 | 75-125 | 2 | 20 | |

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# QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835873
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723024

METHOD BLANK: 4318271 Matrix: Water
Associated Lab Samples: 92714723024

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Calcium | mg/L | ND | 1.0 | 0.12 | 03/04/24 17:06 | |
| Magnesium | mg/L | ND | 0.050 | 0.012 | 03/04/24 17:06 | |
| Potassium | mg/L | ND | 0.50 | 0.15 | 03/04/24 17:06 | |
| Sodium | mg/L | ND | 1.0 | 0.58 | 03/04/24 17:06 | |

LABORATORY CONTROL SAMPLE: 4318272

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Calcium | mg/L | 1 | 1.1 | 106 | 80-120 | |
| Magnesium | mg/L | 1 | 1.1 | 110 | 80-120 | |
| Potassium | mg/L | 1 | 1.1 | 111 | 80-120 | |
| Sodium | mg/L | 1 | 1.2 | 117 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4318273 4318274

| Parameter | Units | 92715157005 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | mg/L | 0.78J | 1 | 1 | 1.8 | 1.8 | 100 | 102 | 75-125 | 1 | 20 | |
| Magnesium | mg/L | 0.34 | 1 | 1 | 1.4 | 1.4 | 106 | 107 | 75-125 | 1 | 20 | |
| Potassium | mg/L | 0.30J | 1 | 1 | 1.3 | 1.3 | 99 | 103 | 75-125 | 3 | 20 | |
| Sodium | mg/L | 1.0 | 1 | 1 | 2.0 | 2.0 | 97 | 101 | 75-125 | 2 | 20 | |

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# QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835886
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723025, 92714723026, 92714723027

METHOD BLANK: 4318385 Matrix: Water
Associated Lab Samples: 92714723025, 92714723026, 92714723027

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Calcium | mg/L | ND | 1.0 | 0.12 | 03/04/24 15:38 | |
| Magnesium | mg/L | ND | 0.050 | 0.012 | 03/04/24 15:38 | |
| Potassium | mg/L | 0.19J | 0.50 | 0.15 | 03/04/24 15:38 | |
| Sodium | mg/L | ND | 1.0 | 0.58 | 03/05/24 18:18 | |

LABORATORY CONTROL SAMPLE: 4318386

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Calcium | mg/L | 1 | 1.0 | 103 | 80-120 | |
| Magnesium | mg/L | 1 | 1.1 | 107 | 80-120 | |
| Potassium | mg/L | 1 | 1.1 | 114 | 80-120 | |
| Sodium | mg/L | 1 | 1.1 | 106 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4318387 4318388

| Parameter | Units | 92714723025 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | mg/L | 0.84J | 1 | 1 | 1.9 | 1.8 | 109 | 99 | 75-125 | 5 | 20 | |
| Magnesium | mg/L | 1.0 | 1 | 1 | 2.1 | 2.0 | 113 | 103 | 75-125 | 5 | 20 | |
| Potassium | mg/L | 0.62 | 1 | 1 | 1.7 | 1.6 | 106 | 95 | 75-125 | 7 | 20 | |
| Sodium | mg/L | 8.6 | 1 | 1 | 10.3 | 9.9 | 169 | 129 | 75-125 | 4 | 20 | M1 |

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## QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835521
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723001, 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020

METHOD BLANK: 4316395
Matrix: Water
Associated Lab Samples: 92714723001, 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | mg/L | ND | 0.0030 | 0.00054 | 03/01/24 15:45 | |
| Arsenic | mg/L | ND | 0.0050 | 0.00084 | 03/01/24 15:45 | |
| Barium | mg/L | ND | 0.0050 | 0.00047 | 03/01/24 15:45 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000094 | 03/01/24 15:45 | |
| Boron | mg/L | ND | 0.040 | 0.012 | 03/01/24 15:45 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00010 | 03/01/24 15:45 | |
| Chromium | mg/L | ND | 0.0050 | 0.0019 | 03/01/24 15:45 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00032 | 03/01/24 15:45 | |
| Copper | mg/L | ND | 0.0050 | 0.00043 | 03/01/24 15:45 | |
| Lead | mg/L | ND | 0.0010 | 0.00016 | 03/01/24 15:45 | |
| Lithium | mg/L | ND | 0.030 | 0.0016 | 03/01/24 15:45 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00062 | 03/01/24 15:45 | |
| Nickel | mg/L | ND | 0.0050 | 0.0021 | 03/01/24 15:45 | |
| Selenium | mg/L | ND | 0.0050 | 0.00096 | 03/01/24 15:45 | |
| Silver | mg/L | ND | 0.0050 | 0.00031 | 03/01/24 15:45 | |
| Thallium | mg/L | ND | 0.0010 | 0.00038 | 03/01/24 15:45 | |
| Vanadium | mg/L | ND | 0.010 | 0.00075 | 03/01/24 15:45 | |
| Zinc | mg/L | ND | 0.010 | 0.0024 | 03/01/24 15:45 | |

LABORATORY CONTROL SAMPLE: 4316396

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | mg/L | 0.1 | 0.11 | 109 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.11 | 105 | 80-120 | |
| Barium | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.11 | 108 | 80-120 | |
| Boron | mg/L | 1 | 1.0 | 103 | 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 | |
| Copper | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Lead | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Nickel | mg/L | 0.1 | 0.099 | 99 | 80-120 | |

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## QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

LABORATORY CONTROL SAMPLE: 4316396

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Selenium | mg/L | 0.1 | 0.11 | 105 | 80-120 | |
| Silver | mg/L | 0.1 | 0.10 | 105 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.096 | 96 | 80-120 | |
| Vanadium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Zinc | mg/L | 0.1 | 0.10 | 101 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4316397 4316398

| Parameter | Units | 92714723001 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 | 107 | 108 | 75-125 | 1 | 20 | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 106 | 107 | 75-125 | 1 | 20 | |
| Barium | mg/L | 0.031 | 0.1 | 0.1 | 0.14 | 0.14 | 105 | 106 | 75-125 | 1 | 20 | |
| Beryllium | mg/L | ND | 0.1 | 0.1 | 0.099 | 0.10 | 99 | 100 | 75-125 | 1 | 20 | |
| Boron | mg/L | 0.023J | 1 | 1 | 0.97 | 1.0 | 94 | 98 | 75-125 | 3 | 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 | 0.10 | 0.10 | 103 | 103 | 75-125 | 0 | 20 | |
| Cobalt | mg/L | 0.0011J | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 101 | 75-125 | 0 | 20 | |
| Copper | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 100 | 75-125 | 0 | 20 | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.095 | 95 | 95 | 75-125 | 0 | 20 | |
| Lithium | mg/L | 0.0036J | 0.1 | 0.1 | 0.098 | 0.10 | 95 | 97 | 75-125 | 2 | 20 | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 102 | 75-125 | 0 | 20 | |
| Nickel | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 102 | 102 | 75-125 | 0 | 20 | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 103 | 104 | 75-125 | 0 | 20 | |
| Silver | mg/L | ND | 0.1 | 0.1 | 0.098 | 0.098 | 98 | 98 | 75-125 | 0 | 20 | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.091 | 0.094 | 91 | 94 | 75-125 | 3 | 20 | |
| Vanadium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.11 | 104 | 105 | 75-125 | 1 | 20 | |
| Zinc | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.10 | 104 | 102 | 75-125 | 2 | 20 | |

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## QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835532
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723021, 92714723022, 92714723023

METHOD BLANK: 4316486 Matrix: Water
Associated Lab Samples: 92714723021, 92714723022, 92714723023

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | mg/L | ND | 0.0030 | 0.00054 | 03/01/24 18:20 | |
| Arsenic | mg/L | ND | 0.0050 | 0.00084 | 03/01/24 18:20 | |
| Barium | mg/L | ND | 0.0050 | 0.00047 | 03/01/24 18:20 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000094 | 03/01/24 18:20 | |
| Boron | mg/L | ND | 0.040 | 0.012 | 03/01/24 18:20 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00010 | 03/01/24 18:20 | |
| Chromium | mg/L | ND | 0.0050 | 0.0019 | 03/01/24 18:20 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00032 | 03/01/24 18:20 | |
| Lead | mg/L | ND | 0.0010 | 0.00016 | 03/01/24 18:20 | |
| Lithium | mg/L | ND | 0.030 | 0.0016 | 03/01/24 18:20 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00062 | 03/01/24 18:20 | |
| Selenium | mg/L | ND | 0.0050 | 0.00096 | 03/01/24 18:20 | |
| Thallium | mg/L | ND | 0.0010 | 0.00038 | 03/01/24 18:20 | |

LABORATORY CONTROL SAMPLE: 4316487

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | mg/L | 0.1 | 0.11 | 109 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.11 | 110 | 80-120 | |
| Barium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.11 | 108 | 80-120 | |
| Boron | mg/L | 1 | 1.0 | 104 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.096 | 96 | 80-120 | |
| Lead | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.095 | 95 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4316488 4316489

| Parameter | Units | 92714723021 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 | 108 | 106 | 75-125 | 2 | 20 | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 108 | 105 | 75-125 | 3 | 20 | |

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## QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4316488 4316489

| Parameter | Units | 92714723021 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | mg/L | 0.0040J | 0.1 | 0.1 | 0.11 | 0.11 | 105 | 102 | 75-125 | 3 | 20 | |
| Beryllium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 103 | 100 | 75-125 | 3 | 20 | |
| Boron | mg/L | 0.014J | 1 | 1 | 1.0 | 0.99 | 98 | 98 | 75-125 | 0 | 20 | |
| Cadmium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 100 | 100 | 75-125 | 0 | 20 | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.097 | 0.095 | 97 | 94 | 75-125 | 2 | 20 | |
| Cobalt | mg/L | 0.0018J | 0.1 | 0.1 | 0.098 | 0.093 | 96 | 92 | 75-125 | 5 | 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 | 0.10 | 0.098 | 100 | 98 | 75-125 | 3 | 20 | |
| Molybdenum | mg/L | 0.030 | 0.1 | 0.1 | 0.13 | 0.13 | 103 | 98 | 75-125 | 4 | 20 | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 104 | 104 | 75-125 | 0 | 20 | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.097 | 0.096 | 97 | 96 | 75-125 | 1 | 20 | |

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## QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835671
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723024, 92714723025, 92714723026, 92714723027

METHOD BLANK: 4317361 Matrix: Water
Associated Lab Samples: 92714723024, 92714723025, 92714723026, 92714723027

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | mg/L | ND | 0.0030 | 0.00054 | 03/05/24 14:25 | |
| Arsenic | mg/L | ND | 0.0050 | 0.00084 | 03/05/24 14:25 | |
| Barium | mg/L | ND | 0.0050 | 0.00047 | 03/05/24 14:25 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000094 | 03/05/24 14:25 | |
| Boron | mg/L | ND | 0.040 | 0.012 | 03/05/24 14:25 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00010 | 03/05/24 14:25 | |
| Chromium | mg/L | ND | 0.0050 | 0.0019 | 03/05/24 14:25 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00032 | 03/05/24 14:25 | |
| Lead | mg/L | ND | 0.0010 | 0.00016 | 03/05/24 14:25 | |
| Lithium | mg/L | ND | 0.030 | 0.0016 | 03/05/24 14:25 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00062 | 03/05/24 14:25 | |
| Selenium | mg/L | ND | 0.0050 | 0.00096 | 03/05/24 14:25 | |
| Thallium | mg/L | ND | 0.0010 | 0.00038 | 03/05/24 14:25 | |

LABORATORY CONTROL SAMPLE: 4317362

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Barium | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.11 | 105 | 80-120 | |
| Boron | mg/L | 1 | 1.0 | 103 | 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 | 0.10 | 101 | 80-120 | |
| Lead | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.11 | 106 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.099 | 99 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4317363 4317364

| Parameter | Units | 92715031012 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 103 | 105 | 75-125 | 2 | 20 | |
| Arsenic | mg/L | 0.0011J | 0.1 | 0.1 | 0.11 | 0.11 | 104 | 107 | 75-125 | 3 | 20 | |

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## QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4317363 4317364

| Parameter | Units | 92715031012 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | mg/L | 0.035 | 0.1 | 0.1 | 0.14 | 0.14 | 101 | 104 | 75-125 | 2 | 20 | |
| Beryllium | mg/L | 0.00013J | 0.1 | 0.1 | 0.091 | 0.092 | 91 | 92 | 75-125 | 1 | 20 | |
| Boron | mg/L | 6.7 | 1 | 1 | 7.6 | 7.6 | 89 | 87 | 75-125 | 0 | 20 | |
| Cadmium | mg/L | 0.00022J | 0.1 | 0.1 | 0.10 | 0.10 | 102 | 104 | 75-125 | 2 | 20 | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 105 | 107 | 75-125 | 2 | 20 | |
| Cobalt | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.11 | 103 | 106 | 75-125 | 3 | 20 | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.094 | 0.095 | 94 | 95 | 75-125 | 1 | 20 | |
| Lithium | mg/L | 0.014J | 0.1 | 0.1 | 0.11 | 0.11 | 92 | 94 | 75-125 | 2 | 20 | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 100 | 104 | 75-125 | 4 | 20 | |
| Selenium | mg/L | 0.053 | 0.1 | 0.1 | 0.16 | 0.16 | 102 | 105 | 75-125 | 2 | 20 | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.093 | 0.095 | 93 | 95 | 75-125 | 2 | 20 | |

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# QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 837274
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723001, 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020, 92714723021, 92714723022

METHOD BLANK: 4325320 Matrix: Water
Associated Lab Samples: 92714723001, 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020, 92714723021, 92714723022

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/L | ND | 0.00020 | 0.00013 | 03/07/24 14:39 | |

LABORATORY CONTROL SAMPLE: 4325321

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/L | 0.0025 | 0.0024 | 94 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4325322 4325323

| Parameter | Units | 92714723002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/L | ND | 0.0025 | 0.0025 | 0.0023 | 0.0026 | 90 | 101 | 75-125 | 11 | 20 | |

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## QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 837279 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723023, 92714723024, 92714723025, 92714723026, 92714723027

METHOD BLANK: 4325334 Matrix: Water
Associated Lab Samples: 92714723023, 92714723024, 92714723025, 92714723026, 92714723027

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/L | ND | 0.00020 | 0.00013 | 03/07/24 16:06 | |

LABORATORY CONTROL SAMPLE: 4325335

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4325336 4325337

| Parameter | Units | 92714726001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/L | ND | 0.0025 | 0.0025 | 0.0026 | 0.0023 | 103 | 93 | 75-125 | 10 | 20 | |

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## QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 834938
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723001

METHOD BLANK: 4313586 Matrix: Water
Associated Lab Samples: 92714723001

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 02/26/24 14:42 | |

LABORATORY CONTROL SAMPLE: 4313587

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 400 | 379 | 95 | 80-120 | |

SAMPLE DUPLICATE: 4313588

| Parameter | Units | 92714128003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 73.0 | 80.0 | 9 | 10 | |

SAMPLE DUPLICATE: 4313589

| Parameter | Units | 92715006001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 107 | 103 | 4 | 10 | |

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# QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 834943
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020, 92714723021

METHOD BLANK: 4313607 Matrix: Water
Associated Lab Samples: 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020, 92714723021

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 02/26/24 15:44 | |

LABORATORY CONTROL SAMPLE: 4313608

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 400 | 369 | 92 | 80-120 | |

SAMPLE DUPLICATE: 4313609

| Parameter | Units | 92714723002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 214 | 199 | 7 | 10 | |

SAMPLE DUPLICATE: 4313610

| Parameter | Units | 92714723012 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | ND | 53.0 | | 10 | |

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## QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835037
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723022, 92714723023

METHOD BLANK: 4314052 Matrix: Water
Associated Lab Samples: 92714723022, 92714723023

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 02/26/24 17:48 | |

LABORATORY CONTROL SAMPLE: 4314053

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 400 | 398 | 100 | 80-120 | |

SAMPLE DUPLICATE: 4314054

| Parameter | Units | 92714723022 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 130 | 204 | 44 | 10 | D6 |

SAMPLE DUPLICATE: 4314055

| Parameter | Units | 92715006008 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 301 | 315 | 5 | 10 | |

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# QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 834611
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92714723001, 92714723002

METHOD BLANK: 4312116 Matrix: Water
Associated Lab Samples: 92714723001, 92714723002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 02/23/24 13:34 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 02/23/24 13:34 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 02/23/24 13:34 | |

LABORATORY CONTROL SAMPLE: 4312117

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 50.8 | 102 | 80-120 | |

LABORATORY CONTROL SAMPLE: 4312118

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 51.3 | 103 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4312119 4312120

| Parameter | Units | 92714723001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 36.4 | 50 | 50 | 87.1 | 86.4 | 101 | 100 | 80-120 | 1 | 25 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4312121 4312122

| Parameter | Units | 92714723002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 73.5 | 50 | 50 | 120 | 121 | 94 | 95 | 80-120 | 1 | 25 | |

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# QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 834663
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020, 92714723021

METHOD BLANK: 4312306 Matrix: Water
Associated Lab Samples: 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020, 92714723021

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 02/23/24 18:26 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 02/23/24 18:26 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 02/23/24 18:26 | |

LABORATORY CONTROL SAMPLE: 4312307

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 51.8 | 104 | 80-120 | |

LABORATORY CONTROL SAMPLE: 4312308

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 52.0 | 104 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4312309 4312310

| Parameter | Units | 92714723020 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 24.7 | 50 | 50 | 75.3 | 72.2 | 101 | 95 | 80-120 | 4 | 25 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4312311 4312312

| Parameter | Units | 92714723021 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 17.9 | 50 | 50 | 66.6 | 67.4 | 97 | 99 | 80-120 | 1 | 25 | |

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# QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835154
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92714723022, 92714723023

METHOD BLANK: 4314543 Matrix: Water
Associated Lab Samples: 92714723022, 92714723023

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 02/27/24 14:12 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 02/27/24 14:12 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 02/27/24 14:12 | |

LABORATORY CONTROL SAMPLE: 4314544

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 51.4 | 103 | 80-120 | |

LABORATORY CONTROL SAMPLE: 4314545

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 50.5 | 101 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4314546 4314547

| Parameter | Units | 92715006001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 75.0 | 50 | 50 | 128 | 127 | 105 | 105 | 80-120 | 0 | 25 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4314548 4314549

| Parameter | Units | 92715006002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 222 | 50 | 50 | 269 | 276 | 94 | 108 | 80-120 | 3 | 25 | |

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# QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 836772
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92714723024, 92714723025, 92714723026, 92714723027

METHOD BLANK: 4322081 Matrix: Water
Associated Lab Samples: 92714723024, 92714723025, 92714723026, 92714723027

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 03/05/24 16:25 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 03/05/24 16:25 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 03/05/24 16:25 | |

LABORATORY CONTROL SAMPLE: 4322082

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 50.8 | 102 | 80-120 | |

LABORATORY CONTROL SAMPLE: 4322083

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 50.3 | 101 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4322084 4322085

| Parameter | Units | 92715031014 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | ND | 50 | 50 | 51.2 | 51.1 | 102 | 102 | 80-120 | 0 | 25 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4322086 4322087

| Parameter | Units | 92715031015 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 35.5 | 50 | 50 | 69.4 | 70.2 | 68 | 69 | 80-120 | 1 | 25 | M1 |

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## QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835155 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92714723024, 92714723025, 92714723026, 92714723027

METHOD BLANK: 4314552 Matrix: Water
Associated Lab Samples: 92714723024, 92714723025, 92714723026, 92714723027

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 02/27/24 11:02 | |

LABORATORY CONTROL SAMPLE: 4314553

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 250 | 254 | 101 | 90-110 | |

SAMPLE DUPLICATE: 4314554

| Parameter | Units | 92715255001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 160 | 164 | 2 | 25 | |

SAMPLE DUPLICATE: 4314555

| Parameter | Units | 92715247002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 802 | 770 | 4 | 25 | |

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# QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 834454
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92714723001, 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014

METHOD BLANK: 4311474 Matrix: Water
Associated Lab Samples: 92714723001, 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | ND | 1.0 | 0.60 | 02/23/24 11:17 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 02/23/24 11:17 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 02/23/24 11:17 | |

LABORATORY CONTROL SAMPLE: 4311475

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | 50 | 50.7 | 101 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.7 | 106 | 90-110 | |
| Sulfate | mg/L | 50 | 51.0 | 102 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4311476 4311477

| Parameter | Units | 92714957014 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | mg/L | 46.5 | 50 | 50 | 96.7 | 98.2 | 100 | 103 | 90-110 | 2 | 10 | |
| Fluoride | mg/L | 0.055J | 2.5 | 2.5 | 2.7 | 2.8 | 107 | 109 | 90-110 | 2 | 10 | |
| Sulfate | mg/L | 0.83J | 50 | 50 | 51.5 | 52.9 | 101 | 104 | 90-110 | 3 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4311478 4311479

| Parameter | Units | 92714723005 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | mg/L | 3.2 | 50 | 50 | 53.7 | 54.0 | 101 | 102 | 90-110 | 1 | 10 | |
| Fluoride | mg/L | 0.076J | 2.5 | 2.5 | 2.4 | 2.4 | 93 | 95 | 90-110 | 1 | 10 | |
| Sulfate | mg/L | 5.1 | 50 | 50 | 55.7 | 56.1 | 101 | 102 | 90-110 | 1 | 10 | |

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# QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 834455
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92714723015, 92714723016, 92714723017, 92714723019, 92714723020, 92714723021, 92714723022, 92714723023

METHOD BLANK: 4311480 Matrix: Water
Associated Lab Samples: 92714723015, 92714723016, 92714723017, 92714723019, 92714723020, 92714723021, 92714723022, 92714723023

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | ND | 1.0 | 0.60 | 02/23/24 18:42 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 02/23/24 18:42 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 02/23/24 18:42 | |

LABORATORY CONTROL SAMPLE: 4311481

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | 50 | 51.4 | 103 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.5 | 101 | 90-110 | |
| Sulfate | mg/L | 50 | 51.4 | 103 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4311482 4311483

| Parameter | Units | 92714723015 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | mg/L | 1.4 | 50 | 50 | 52.2 | 52.3 | 101 | 102 | 90-110 | 0 | 10 | |
| Fluoride | mg/L | 0.051J | 2.5 | 2.5 | 2.5 | 2.5 | 98 | 99 | 90-110 | 0 | 10 | |
| Sulfate | mg/L | 0.69J | 50 | 50 | 51.4 | 51.4 | 101 | 101 | 90-110 | 0 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4311484 4311485

| Parameter | Units | 92714726002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | mg/L | 1.6 | 50 | 50 | 52.5 | 53.3 | 102 | 103 | 90-110 | 1 | 10 | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 2.7 | 2.7 | 105 | 106 | 90-110 | 1 | 10 | |
| Sulfate | mg/L | 916 | 50 | 50 | 968 | 975 | 106 | 118 | 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.**

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# QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835036
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92714723024

METHOD BLANK: 4314044 Matrix: Water
Associated Lab Samples: 92714723024

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | ND | 1.0 | 0.60 | 02/26/24 18:32 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 02/26/24 18:32 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 02/26/24 18:32 | |

LABORATORY CONTROL SAMPLE: 4314045

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | 50 | 50.5 | 101 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.6 | 102 | 90-110 | |
| Sulfate | mg/L | 50 | 50.7 | 101 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4314046 4314047

| Parameter | Units | 92712009007 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | mg/L | 4.9 | 50 | 50 | 55.6 | 56.1 | 101 | 103 | 90-110 | 1 | 10 | |
| Fluoride | mg/L | 0.36 | 2.5 | 2.5 | 2.9 | 2.9 | 101 | 101 | 90-110 | 0 | 10 | |
| Sulfate | mg/L | 4.6 | 50 | 50 | 55.6 | 56.1 | 102 | 103 | 90-110 | 1 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4314048 4314049

| Parameter | Units | 92715031013 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | mg/L | ND | 50 | 50 | 50.9 | 50.7 | 102 | 101 | 90-110 | 0 | 10 | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 2.7 | 2.5 | 109 | 101 | 90-110 | 7 | 10 | |
| Sulfate | mg/L | ND | 50 | 50 | 51.1 | 50.7 | 102 | 101 | 90-110 | 1 | 10 | |

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# QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835038
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92714723025, 92714723026, 92714723027

METHOD BLANK: 4314060 Matrix: Water
Associated Lab Samples: 92714723025, 92714723026, 92714723027

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | ND | 1.0 | 0.60 | 02/26/24 19:00 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 02/26/24 19:00 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 02/26/24 19:00 | |

LABORATORY CONTROL SAMPLE: 4314061

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | 50 | 52.9 | 106 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.5 | 100 | 90-110 | |
| Sulfate | mg/L | 50 | 50.6 | 101 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4314062 4314063

| Parameter | Units | 92714723025 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | mg/L | 6.6 | 50 | 50 | 57.7 | 59.0 | 102 | 105 | 90-110 | 2 | 10 | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 2.7 | 2.7 | 105 | 107 | 90-110 | 2 | 10 | |
| Sulfate | mg/L | 0.79J | 50 | 50 | 51.7 | 53.0 | 102 | 104 | 90-110 | 2 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4314064 4314065

| Parameter | Units | 92715031020 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | mg/L | 5.2 | 50 | 50 | 56.4 | 57.6 | 102 | 105 | 90-110 | 2 | 10 | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 2.6 | 2.6 | 101 | 103 | 90-110 | 2 | 10 | |
| Sulfate | mg/L | 241 | 50 | 50 | 282 | 285 | 82 | 87 | 90-110 | 1 | 10 | M1 |

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# QUALIFIERS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

## DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

## ANALYTE QUALIFIERS

| | |
|---|---|
| B | Analyte was detected in the associated method blank. |
| 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. |



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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **92714723001** | **YAT-YGWA-47** | EPA 3010A | 835565 | EPA 6010D | 835656 |
| **92714723002** | **YAT-GWA-2** | EPA 3010A | 835565 | EPA 6010D | 835656 |
| **92714723003** | **YAT-YGWA-4I** | EPA 3010A | 835565 | EPA 6010D | 835656 |
| **92714723004** | **YAT-YGWA-5I** | EPA 3010A | 835565 | EPA 6010D | 835656 |
| **92714723005** | **YAT-YGWA-5D** | EPA 3010A | 835565 | EPA 6010D | 835656 |
| **92714723006** | **YAT-YGWA-20S** | EPA 3010A | 835565 | EPA 6010D | 835656 |
| **92714723007** | **YAT-YGWA-21I** | EPA 3010A | 835565 | EPA 6010D | 835656 |
| **92714723008** | **YAT-YGWA-17S** | EPA 3010A | 835581 | EPA 6010D | 835658 |
| **92714723010** | **YAT-YGWA-18I** | EPA 3010A | 835581 | EPA 6010D | 835658 |
| **92714723011** | **YAT-UGRD-EB-1** | EPA 3010A | 835581 | EPA 6010D | 835658 |
| **92714723012** | **YAT-UGRD-FB-1** | EPA 3010A | 835581 | EPA 6010D | 835658 |
| **92714723013** | **YAT-UGRD-EB-2** | EPA 3010A | 835581 | EPA 6010D | 835658 |
| **92714723014** | **YAT-UGRD-FB-2** | EPA 3010A | 835581 | EPA 6010D | 835658 |
| **92714723015** | **YAT-YGWA-30I** | EPA 3010A | 835581 | EPA 6010D | 835658 |
| **92714723016** | **YAT-YGWA-3I** | EPA 3010A | 835581 | EPA 6010D | 835658 |
| **92714723017** | **YAT-YGWA-3D** | EPA 3010A | 835581 | EPA 6010D | 835658 |
| **92714723019** | **YAT-YGWA-39** | EPA 3010A | 835581 | EPA 6010D | 835658 |
| **92714723020** | **YAT-YGWA-40** | EPA 3010A | 835581 | EPA 6010D | 835658 |
| **92714723021** | **YAT-YGWA-1I** | EPA 3010A | 835638 | EPA 6010D | 835688 |
| **92714723022** | **YAT-YGWA-1D** | EPA 3010A | 835638 | EPA 6010D | 835688 |
| **92714723023** | **YAT-YGWA-2I** | EPA 3010A | 835638 | EPA 6010D | 835688 |
| **92714723024** | **YAT-YGWA-14S** | EPA 3010A | 835873 | EPA 6010D | 835959 |
| **92714723025** | **YAT-YGWA-18S** | EPA 3010A | 835886 | EPA 6010D | 835961 |
| **92714723026** | **YAT-UGRD-FD-1** | EPA 3010A | 835886 | EPA 6010D | 835961 |
| **92714723027** | **YAT-UGRD-FD-2** | EPA 3010A | 835886 | EPA 6010D | 835961 |
| **92714723001** | **YAT-YGWA-47** | EPA 3005A | 835521 | EPA 6020B | 835651 |
| **92714723002** | **YAT-GWA-2** | EPA 3005A | 835521 | EPA 6020B | 835651 |
| **92714723003** | **YAT-YGWA-4I** | EPA 3005A | 835521 | EPA 6020B | 835651 |
| **92714723004** | **YAT-YGWA-5I** | EPA 3005A | 835521 | EPA 6020B | 835651 |
| **92714723005** | **YAT-YGWA-5D** | EPA 3005A | 835521 | EPA 6020B | 835651 |
| **92714723006** | **YAT-YGWA-20S** | EPA 3005A | 835521 | EPA 6020B | 835651 |
| **92714723007** | **YAT-YGWA-21I** | EPA 3005A | 835521 | EPA 6020B | 835651 |
| **92714723008** | **YAT-YGWA-17S** | EPA 3005A | 835521 | EPA 6020B | 835651 |
| **92714723010** | **YAT-YGWA-18I** | EPA 3005A | 835521 | EPA 6020B | 835651 |
| **92714723011** | **YAT-UGRD-EB-1** | EPA 3005A | 835521 | EPA 6020B | 835651 |
| **92714723012** | **YAT-UGRD-FB-1** | EPA 3005A | 835521 | EPA 6020B | 835651 |
| **92714723013** | **YAT-UGRD-EB-2** | EPA 3005A | 835521 | EPA 6020B | 835651 |
| **92714723014** | **YAT-UGRD-FB-2** | EPA 3005A | 835521 | EPA 6020B | 835651 |
| **92714723015** | **YAT-YGWA-30I** | EPA 3005A | 835521 | EPA 6020B | 835651 |
| **92714723016** | **YAT-YGWA-3I** | EPA 3005A | 835521 | EPA 6020B | 835651 |
| **92714723017** | **YAT-YGWA-3D** | EPA 3005A | 835521 | EPA 6020B | 835651 |
| **92714723019** | **YAT-YGWA-39** | EPA 3005A | 835521 | EPA 6020B | 835651 |
| **92714723020** | **YAT-YGWA-40** | EPA 3005A | 835521 | EPA 6020B | 835651 |
| **92714723021** | **YAT-YGWA-1I** | EPA 3005A | 835532 | EPA 6020B | 835652 |
| **92714723022** | **YAT-YGWA-1D** | EPA 3005A | 835532 | EPA 6020B | 835652 |
| **92714723023** | **YAT-YGWA-2I** | EPA 3005A | 835532 | EPA 6020B | 835652 |



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# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **92714723024** | **YAT-YGWA-14S** | EPA 3005A | 835671 | EPA 6020B | 835903 |
| **92714723025** | **YAT-YGWA-18S** | EPA 3005A | 835671 | EPA 6020B | 835903 |
| **92714723026** | **YAT-UGRD-FD-1** | EPA 3005A | 835671 | EPA 6020B | 835903 |
| **92714723027** | **YAT-UGRD-FD-2** | EPA 3005A | 835671 | EPA 6020B | 835903 |
| **92714723001** | **YAT-YGWA-47** | EPA 7470A | 837274 | EPA 7470A | 837419 |
| **92714723002** | **YAT-GWA-2** | EPA 7470A | 837274 | EPA 7470A | 837419 |
| **92714723003** | **YAT-YGWA-4I** | EPA 7470A | 837274 | EPA 7470A | 837419 |
| **92714723004** | **YAT-YGWA-5I** | EPA 7470A | 837274 | EPA 7470A | 837419 |
| **92714723005** | **YAT-YGWA-5D** | EPA 7470A | 837274 | EPA 7470A | 837419 |
| **92714723006** | **YAT-YGWA-20S** | EPA 7470A | 837274 | EPA 7470A | 837419 |
| **92714723007** | **YAT-YGWA-21I** | EPA 7470A | 837274 | EPA 7470A | 837419 |
| **92714723008** | **YAT-YGWA-17S** | EPA 7470A | 837274 | EPA 7470A | 837419 |
| **92714723010** | **YAT-YGWA-18I** | EPA 7470A | 837274 | EPA 7470A | 837419 |
| **92714723011** | **YAT-UGRD-EB-1** | EPA 7470A | 837274 | EPA 7470A | 837419 |
| **92714723012** | **YAT-UGRD-FB-1** | EPA 7470A | 837274 | EPA 7470A | 837419 |
| **92714723013** | **YAT-UGRD-EB-2** | EPA 7470A | 837274 | EPA 7470A | 837419 |
| **92714723014** | **YAT-UGRD-FB-2** | EPA 7470A | 837274 | EPA 7470A | 837419 |
| **92714723015** | **YAT-YGWA-30I** | EPA 7470A | 837274 | EPA 7470A | 837419 |
| **92714723016** | **YAT-YGWA-3I** | EPA 7470A | 837274 | EPA 7470A | 837419 |
| **92714723017** | **YAT-YGWA-3D** | EPA 7470A | 837274 | EPA 7470A | 837419 |
| **92714723019** | **YAT-YGWA-39** | EPA 7470A | 837274 | EPA 7470A | 837419 |
| **92714723020** | **YAT-YGWA-40** | EPA 7470A | 837274 | EPA 7470A | 837419 |
| **92714723021** | **YAT-YGWA-1I** | EPA 7470A | 837274 | EPA 7470A | 837419 |
| **92714723022** | **YAT-YGWA-1D** | EPA 7470A | 837274 | EPA 7470A | 837419 |
| **92714723023** | **YAT-YGWA-2I** | EPA 7470A | 837279 | EPA 7470A | 837426 |
| **92714723024** | **YAT-YGWA-14S** | EPA 7470A | 837279 | EPA 7470A | 837426 |
| **92714723025** | **YAT-YGWA-18S** | EPA 7470A | 837279 | EPA 7470A | 837426 |
| **92714723026** | **YAT-UGRD-FD-1** | EPA 7470A | 837279 | EPA 7470A | 837426 |
| **92714723027** | **YAT-UGRD-FD-2** | EPA 7470A | 837279 | EPA 7470A | 837426 |
| **92714723001** | **YAT-YGWA-47** | SM 2540C-2015 | 834938 | | |
| **92714723002** | **YAT-GWA-2** | SM 2540C-2015 | 834943 | | |
| **92714723003** | **YAT-YGWA-4I** | SM 2540C-2015 | 834943 | | |
| **92714723004** | **YAT-YGWA-5I** | SM 2540C-2015 | 834943 | | |
| **92714723005** | **YAT-YGWA-5D** | SM 2540C-2015 | 834943 | | |
| **92714723006** | **YAT-YGWA-20S** | SM 2540C-2015 | 834943 | | |
| **92714723007** | **YAT-YGWA-21I** | SM 2540C-2015 | 834943 | | |
| **92714723008** | **YAT-YGWA-17S** | SM 2540C-2015 | 834943 | | |
| **92714723010** | **YAT-YGWA-18I** | SM 2540C-2015 | 834943 | | |
| **92714723011** | **YAT-UGRD-EB-1** | SM 2540C-2015 | 834943 | | |
| **92714723012** | **YAT-UGRD-FB-1** | SM 2540C-2015 | 834943 | | |
| **92714723013** | **YAT-UGRD-EB-2** | SM 2540C-2015 | 834943 | | |
| **92714723014** | **YAT-UGRD-FB-2** | SM 2540C-2015 | 834943 | | |
| **92714723015** | **YAT-YGWA-30I** | SM 2540C-2015 | 834943 | | |
| **92714723016** | **YAT-YGWA-3I** | SM 2540C-2015 | 834943 | | |
| **92714723017** | **YAT-YGWA-3D** | SM 2540C-2015 | 834943 | | |
| **92714723019** | **YAT-YGWA-39** | SM 2540C-2015 | 834943 | | |

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **92714723020** | **YAT-YGWA-40** | SM 2540C-2015 | 834943 | | |
| **92714723021** | **YAT-YGWA-1I** | SM 2540C-2015 | 834943 | | |
| **92714723022** | **YAT-YGWA-1D** | SM 2540C-2015 | 835037 | | |
| **92714723023** | **YAT-YGWA-2I** | SM 2540C-2015 | 835037 | | |
| **92714723001** | **YAT-YGWA-47** | SM 2320B-2011 | 834611 | | |
| **92714723002** | **YAT-GWA-2** | SM 2320B-2011 | 834611 | | |
| **92714723003** | **YAT-YGWA-4I** | SM 2320B-2011 | 834663 | | |
| **92714723004** | **YAT-YGWA-5I** | SM 2320B-2011 | 834663 | | |
| **92714723005** | **YAT-YGWA-5D** | SM 2320B-2011 | 834663 | | |
| **92714723006** | **YAT-YGWA-20S** | SM 2320B-2011 | 834663 | | |
| **92714723007** | **YAT-YGWA-21I** | SM 2320B-2011 | 834663 | | |
| **92714723008** | **YAT-YGWA-17S** | SM 2320B-2011 | 834663 | | |
| **92714723010** | **YAT-YGWA-18I** | SM 2320B-2011 | 834663 | | |
| **92714723011** | **YAT-UGRD-EB-1** | SM 2320B-2011 | 834663 | | |
| **92714723012** | **YAT-UGRD-FB-1** | SM 2320B-2011 | 834663 | | |
| **92714723013** | **YAT-UGRD-EB-2** | SM 2320B-2011 | 834663 | | |
| **92714723014** | **YAT-UGRD-FB-2** | SM 2320B-2011 | 834663 | | |
| **92714723015** | **YAT-YGWA-30I** | SM 2320B-2011 | 834663 | | |
| **92714723016** | **YAT-YGWA-3I** | SM 2320B-2011 | 834663 | | |
| **92714723017** | **YAT-YGWA-3D** | SM 2320B-2011 | 834663 | | |
| **92714723019** | **YAT-YGWA-39** | SM 2320B-2011 | 834663 | | |
| **92714723020** | **YAT-YGWA-40** | SM 2320B-2011 | 834663 | | |
| **92714723021** | **YAT-YGWA-1I** | SM 2320B-2011 | 834663 | | |
| **92714723022** | **YAT-YGWA-1D** | SM 2320B-2011 | 835154 | | |
| **92714723023** | **YAT-YGWA-2I** | SM 2320B-2011 | 835154 | | |
| **92714723024** | **YAT-YGWA-14S** | SM 2320B-2011 | 836772 | | |
| **92714723025** | **YAT-YGWA-18S** | SM 2320B-2011 | 836772 | | |
| **92714723026** | **YAT-UGRD-FD-1** | SM 2320B-2011 | 836772 | | |
| **92714723027** | **YAT-UGRD-FD-2** | SM 2320B-2011 | 836772 | | |
| **92714723024** | **YAT-YGWA-14S** | SM 2540C-2015 | 835155 | | |
| **92714723025** | **YAT-YGWA-18S** | SM 2540C-2015 | 835155 | | |
| **92714723026** | **YAT-UGRD-FD-1** | SM 2540C-2015 | 835155 | | |
| **92714723027** | **YAT-UGRD-FD-2** | SM 2540C-2015 | 835155 | | |
| **92714723001** | **YAT-YGWA-47** | EPA 300.0 Rev 2.1 1993 | 834454 | | |
| **92714723002** | **YAT-GWA-2** | EPA 300.0 Rev 2.1 1993 | 834454 | | |
| **92714723003** | **YAT-YGWA-4I** | EPA 300.0 Rev 2.1 1993 | 834454 | | |
| **92714723004** | **YAT-YGWA-5I** | EPA 300.0 Rev 2.1 1993 | 834454 | | |
| **92714723005** | **YAT-YGWA-5D** | EPA 300.0 Rev 2.1 1993 | 834454 | | |
| **92714723006** | **YAT-YGWA-20S** | EPA 300.0 Rev 2.1 1993 | 834454 | | |
| **92714723007** | **YAT-YGWA-21I** | EPA 300.0 Rev 2.1 1993 | 834454 | | |
| **92714723008** | **YAT-YGWA-17S** | EPA 300.0 Rev 2.1 1993 | 834454 | | |
| **92714723010** | **YAT-YGWA-18I** | EPA 300.0 Rev 2.1 1993 | 834454 | | |
| **92714723011** | **YAT-UGRD-EB-1** | EPA 300.0 Rev 2.1 1993 | 834454 | | |
| **92714723012** | **YAT-UGRD-FB-1** | EPA 300.0 Rev 2.1 1993 | 834454 | | |
| **92714723013** | **YAT-UGRD-EB-2** | EPA 300.0 Rev 2.1 1993 | 834454 | | |

## REPORT OF LABORATORY ANALYSIS

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**Pace Analytical Services, LLC**
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **92714723014** | **YAT-UGRD-FB-2** | EPA 300.0 Rev 2.1 1993 | 834454 | | |
| **92714723015** | **YAT-YGWA-30I** | EPA 300.0 Rev 2.1 1993 | 834455 | | |
| **92714723016** | **YAT-YGWA-3I** | EPA 300.0 Rev 2.1 1993 | 834455 | | |
| **92714723017** | **YAT-YGWA-3D** | EPA 300.0 Rev 2.1 1993 | 834455 | | |
| **92714723019** | **YAT-YGWA-39** | EPA 300.0 Rev 2.1 1993 | 834455 | | |
| **92714723020** | **YAT-YGWA-40** | EPA 300.0 Rev 2.1 1993 | 834455 | | |
| **92714723021** | **YAT-YGWA-1I** | EPA 300.0 Rev 2.1 1993 | 834455 | | |
| **92714723022** | **YAT-YGWA-1D** | EPA 300.0 Rev 2.1 1993 | 834455 | | |
| **92714723023** | **YAT-YGWA-2I** | EPA 300.0 Rev 2.1 1993 | 834455 | | |
| **92714723024** | **YAT-YGWA-14S** | EPA 300.0 Rev 2.1 1993 | 835036 | | |
| **92714723025** | **YAT-YGWA-18S** | EPA 300.0 Rev 2.1 1993 | 835038 | | |
| **92714723026** | **YAT-UGRD-FD-1** | EPA 300.0 Rev 2.1 1993 | 835038 | | |
| **92714723027** | **YAT-UGRD-FD-2** | EPA 300.0 Rev 2.1 1993 | 835038 | | |



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| Pace ANALYTICAL SERVICES | DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt |
|---|---|
| | Effective Date: 12/01/2023 |

**Laboratory receiving samples:**
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

**Sample Condition Upon Receipt**

**Client Name:** Ga Power

**Project #:**

**WO# : 92714723**

92714723

**Courier:** ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☑ Pace ☐ Client ☐ Other:

**Custody Seal Present?** ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

**Date/Initials Person Examining Contents:** 7/11/24 SG

**Packing Material:** ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

**Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

**Thermometer:** ☑ IR Gun ID: 730 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

**Cooler Temp:** 4.3 **Correction Factor:** Add/Subtract (°C): -0.1

**Cooler Temp Corrected (°C):** 4.4

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

**USDA Regulated Soil** ( ☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

**Field Data Required?** ☐ Yes ☐ No

**COMMENTS/SAMPLE DISCREPANCY**

Lot ID of split containers:

**CLIENT NOTIFICATION/RESOLUTION**

Person contacted: Date/Time:

**Project Manager SCURF Review:** Date:

**Project Manager SRF Review:** Date:

| Pace ANALYTICAL SERVICES | DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt |
|---|---|
| | Effective Date: 12/01/2023 |

**WO#: 92714723**

**PM: BV** **Due Date: 03/07/24**

**CLIENT: 92-GP-Yates**

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

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

**Project #**

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

***Check all unpreserved Nitrates for chlorine

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (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) | Vapor | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | | |
| 2 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | | |
| 3 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | | |
| 4 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | | |
| 5 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | | |
| 6 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | | |
| 7 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | | |
| 8 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | | |
| 9 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

## pH Adjustment Log for Preserved Samples

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

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

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

92714723

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-2024S1 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient | | Purchase Order # (if applicable): | GPC82474-0002 |
| | | Quote #: | |

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

| Customer Sample ID | Matrix * | Comp / Grab | Collected (for Composite Start) Date | Collected (for Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers Plastic | Number & Type of Containers Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | App I/II Metals | Sample Comment | Preservation non-conformance identified for sample |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-YGWA-47 | WG | G | 2/20/24 | 1030 | | | | 6 | | X | X | X | X | X | | See Remarks 001 | |
| YAT-GWA-2 | WG | G | 2/20/24 | 1150 | | | | 6 | | X | X | X | X | X | X | See Remarks 002 | |
| YAT-YGWA-4I | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-5I | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-5D | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-17S | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-18S | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-18I | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-20S | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-21I | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |

Specify Container Size **: 3 3 2 1 3

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

Identify Container Preservative Type***: 2 1 1 2 1

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Jake Swanson
Signature: (Arcadis) -

Additional Instructions from Pace®:

# of Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Tracking Number: |
|---|---|---|---|---|
| /Arcadis | 2/20/24 / 1730 | Mathis / Arcadis | 2/20/24 / 1730 | |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Delivered by: [ ] In-Person [ ] Courier |
| | 2/21/24 1220 | Ryan Williams / Pace | 2/21/24 1220 | [ ] FedEX [ ] UPS [ ] Other |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | |
| Ryan Williams / Pace | 2/21/24 1512 | | 2/21/24 1512 | Page: of |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | |

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

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Scan QR Code for instructions

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-2024S1 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): | YAT Pooled Upgradient | Purchase Order # (if applicable): | GPC82474-0002 |
| | | Quote #: | |
| Time Zone Collected: | [ ] AK [ ] PT [ ] MT [ ] CT [X] ET | County / State origin of sample(s): | Georgia |

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested: STANDARD TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers Plastic | Number & Type of Containers Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | App I/II Metals | Sample Comment | Preservation non-conformance identified for sample |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-YGWA-47 | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-GWA-2 | WG | G | | | | | | 6 | | X | X | X | X | X | X | See Remarks | |
| YAT-YGWA-4I | WG | G | 2/20/24 | 1110 | — | — | | 6 | | X | X | X | X | X | | See Remarks 003 | |
| YAT-YGWA-5I | WG | G | 2/20/24 | 1218 | — | — | | 6 | | X | X | X | X | X | | See Remarks 004 | |
| YAT-YGWA-5D | WG | G | 2/20/24 | 1325 | — | — | | 6 | | X | X | X | X | X | | See Remarks 005 | |
| YAT-YGWA-17S | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-18S | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-18I | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-20S | WG | G | 2/20/24 | 1440 | — | — | | 6 | | X | X | X | X | X | | See Remarks 006 | |
| YAT-YGWA-21I | WG | G | 2/20/24 | 1635 | — | — | | 6 | | X | X | X | X | X | | See Remarks 007 | |

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM LIAPSUNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

| # Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C) |
|---|---|---|---|---|
| | | | | |

| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: |
|---|---|---|---|
| [illegible] / ARCADIS | 2/21/24 0810 | [illegible] / Arcadis | 2/21/24 0810 |
| [illegible] / Arcadis | 2/21/24 1220 | Ryan Williams / Pace | 2/21/24 1220 |
| Ryan Williams / Pace | 2/21/24 1512 | [illegible] | 2/21/24 1512 |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: |

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier
[ ] FedEx [ ] UPS [ ] Other

Page: 1 of 2

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

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| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-2024S1 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient | | Purchase Order # (if applicable): | GPC82474-0002 |
| | | Quote #: | |
| Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET | | County / State origin of sample(s): | Georgia |

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers Plastic | Number & Type of Containers Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | App I/II Metals | Sample Comment | Preservation non conformance identified for sample |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-YGWA-47 | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-GWA-2 | WG | G | | | | | | 6 | | X | X | X | X | X | X | See Remarks | |
| YAT-YGWA-4I | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-5I | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-5D | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-17S | WG | G | 2/20/24 | 1037 | | | | 6 | | X | X | X | X | X | | See Remarks 008 | |
| YAT-YGWA-18S | WG | G | 2/20/24 | 1152 | | | | 6 | | X | X | X | X | X | | See Remarks 009 | |
| YAT-YGWA-18I | WG | G | 2/20/24 | 1248 | | | | 6 | | X | X | X | X | X | | See Remarks 010 | |
| YAT-YGWA-20S | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-21I | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

| # Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C) |
|---|---|---|---|---|
| | | | | |

| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: |
|---|---|---|---|
| Jessica Ware / Arcadis | 2/21/24 0725 | Matthew / Arcadis | 2/21/24 0725 |
| Matthew / Arcadis | 2/21/24 1220 | Lyan Williams / Pace | 2/21/24 1226 |
| Lyan Williams / Pace | 2/21/24 1512 | | 2/21/24 1512 |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: |

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: 1 of 3

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

| Pace Analytical Services | DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt |
|---|---|
| | Effective Date: 12/01/2023 |

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

**Sample Condition Upon Receipt**

Client Name: Ga Power

Project #:

**WO# : 92714723**

PM: BV Due Date: 03/07/24
CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 7/11/24 SLA

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 730 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C): -0.1

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

Cooler Temp Corrected (°C): 4.4

USDA Regulated Soil ( ☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

| Pace ANALYTICAL SERVICES | DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt |
|---|---|
| | Effective Date: 12/01/2023 |

**WO#: 92714723**

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

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

Project #

PM: BV Due Date: 03/07/24

CLIENT: 92-GP-Yates

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

***Check all unpreserved Nitrates for chlorine

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (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) | 8015 | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | 2 | | | | |
| 2 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | 2 | | | | |
| 3 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | 2 | | | | |
| 4 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | 2 | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

## pH Adjustment Log for Preserved Samples

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

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

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-2024S1 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient | | Purchase Order # (if applicable): | GPC82474-0002 |
| | | Quote #: | |
| Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET | | County / State origin of sample(s): | Georgia |

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested: GPC Standard

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers Plastic | Number & Type of Containers Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | Sample Comment | Preservation non-conformance identified for sample. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-UGRD-EB-1 | WG | G | 2/20/24 | 1715 | - | - | - | 6 | | X | X | X | X | X | See Remarks 011 | |
| YAT-UGRD-FB-1 | WG | G | 2/20/24 | 1535 | - | - | - | 6 | | X | X | X | X | X | See Remarks 012 | |
| YAT-UGRD-EB-2 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-UGRD-FB-2 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-UGRD-FD-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-UGRD-FD-2 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg: For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Mark Chest
Signature: (Arcadis)

Additional Instructions from Pace®:

| # Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C) |
|---|---|---|---|---|
| | | | | |

| | Date/Time: | | Date/Time: | Tracking Number: |
|---|---|---|---|---|
| Relinquished by/Company: (Signature) Arcadis | 2/21/24 1220 | Received by/Company: (Signature) Ryan Williams / Pace | 2/21/24 1220 | |
| Relinquished by/Company: (Signature) Ryan Williams / Pace | 2/21/24 1512 | Received by/Company: (Signature) | 2/21/24 1512 | Delivered by: [ ] In-Person [ ] Courier |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | [ ] FedEx [ ] UPS [ ] Other |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Page: 2 of 2 |

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-202451 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient | | Purchase Order # (if applicable): | GPC82474-0002 |
| | | Quote #: | |
| Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET | | County / State origin of sample(s): | Georgia |

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: Standard

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers: Plastic | Number & Type of Containers: Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | Sample Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-UGRD-EB-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks |
| YAT-UGRD-FB-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks |
| YAT-UGRD-EB-2 | WG | G | 2/20/24 | 1555 | | | | 6 | | X | X | X | X | X | See Remarks 013 |
| YAT-UGRD-FB-2 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks |
| YAT-UGRD-FD-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks |
| YAT-UGRD-FD-2 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Remarks / Special Conditions / Possible Hazards:

App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By: Printed Name: (Arcadis) Jessica Ware; Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

| # Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C) |
|---|---|---|---|---|
| | | | | |

| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Tracking Number: |
|---|---|---|---|---|
| Jessica Ware / Arcadis | 2/21/24 0725 | | | |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Delivered by: [ ] In-Person [ ] Courier |
| Arcadis | 2/21/24 1220 | Ryan William / Pace | 2/21/24 1220 | [ ] FedEx [ ] UPS [ ] Other |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | |
| Ryan William / Pace | 2/21/24 1512 | | 2/21/24 1512 | |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Page: 3 of 3 |

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-202451 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient | | Purchase Order # (if applicable): | GPC82474-0002 |
| | | Quote #: | |
| Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET | | County / State origin of sample(s): | Georgia |
| Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other | | Regulatory Program (DW, RCRA, etc.) as applicable: | |
| | | Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other | DW PWSID # or WW Permit # as applicable: |
| | | Date Results Requested: STANDARD TAT | Field Filtered (if applicable): [ ] Yes [✓] No Analysis: |

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers Plastic | Number & Type of Containers Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | Sample Comment | Preservation non-conformance identified for sample. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-UGRD-EB-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-UGRD-FB-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-UGRD-EB-2 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-UGRD-FB-2 | WG | G | 2/20/24 | 1700 | — | — | | 6 | | X | X | X | X | X | See Remarks 014 | |
| YAT-UGRD-FD-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-UGRD-FD-2 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM WAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

| # Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C) |
|---|---|---|---|---|
| | | | | |

| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: |
|---|---|---|---|
| ARCADIS | 2/21/24 0510 | Arcadis | 2/21/24 0810 |
| Arcadis | 2/21/24 1220 | Ryan Williams / Pace | 2/21/24 1220 |
| Ryan Williams / Pace | 2/21/24 1512 | | 2/21/24 1512 |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: |

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: 2 of 2

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

| Pace ANALYTICAL SERVICES | DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt |
|---|---|
| | Effective Date: 12/01/2023 |

**Laboratory receiving samples:**
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

**Sample Condition Upon Receipt**

**Client Name:** Ga Power

**Project #:** WO#: 92714723

PM: BV Due Date: 03/07/24
CLIENT: 92-GP-Yates

**Courier:** ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:____

**Custody Seal Present?** ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

**Date/Initials Person Examining Contents:** 7/11/24 SA

**Packing Material:** ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

**Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

**Thermometer:**
☑ IR Gun ID: 730 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

**Cooler Temp:** 4.3 **Correction Factor:** Add/Subtract (°C) -0.1

**Cooler Temp Corrected (°C):** 4.4

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

**USDA Regulated Soil** ( ☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

**Field Data Required?** ☐ Yes ☐ No

**COMMENTS/SAMPLE DISCREPANCY**

Lot ID of split containers:

**CLIENT NOTIFICATION/RESOLUTION**

Person contacted: _____ Date/Time: _____

**Project Manager SCURF Review:** _____ **Date:** _____

**Project Manager SRF Review:** _____ **Date:** _____

| Pace ANALYTICAL SERVICES | DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt |
|---|---|
| | Effective Date: 12/01/2023 |

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

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

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

***Check all unpreserved Nitrates for chlorine

Project # **WO#:92714723**

PM: BV Due Date: 03/07/24

CLIENT: 92-GP-Yates

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (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) | 1 2 3 4 5 6 7 8 9 10 11 12 | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | X | | | | |
| 2 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | X | | | | |
| 3 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | X | | | | |
| 4 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | X | | | | |
| 5 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | X | | | | |
| 6 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | X | | | | |
| 7 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | X | | | | |
| 8 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | X | | | | |
| 9 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | X | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

## pH Adjustment Log for Preserved Samples

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

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

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-202451 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): | YAT Pooled Upgradient | Purchase Order # (if applicable): | GPC82474-0002 |
| | | Quote #: | |

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested: Standard

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers Plastic | Number & Type of Containers Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | Sample Comment | Preservation non-conformance identified for sample. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-YGWA-30I | WG | G | 2/20/24 | 1625 | | | | 6 | | X | X | X | X | X | See Remarks 015 | |
| YAT-YGWA-14S | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-39 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-40 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-1I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-1D | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-2I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-3I | WG | G | 2/20/24 | 1350 | | | | 6 | | X | X | X | X | X | See Remarks 016 | |
| YAT-YGWA-3D | WG | G | 2/20/24 | 1135 | | | | 6 | | X | X | X | X | X | See Remarks 017 | |
| | | | ~~2/20/24~~ | ~~1135~~ | | | | | | | | | | | | |

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) -
Signature: (Arcadis) David Pratt

Additional Instructions from Pace®:

| # Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C) |
|---|---|---|---|---|
| | | | | |

| | Date/Time | | Date/Time | |
|---|---|---|---|---|
| Relinquished by/Company: (Signature) Arcadis | 2/21/24 0810 | Received by/Company: (Signature) Arcadis | 2/21/24 0810 | Tracking Number: |
| Relinquished by/Company: (Signature) Arcadis | 2/21/24 1220 | Received by/Company: (Signature) Ryan Williams / Pace | 2/21/24 1220 | Delivered by: [ ] In-Person [ ] Courier |
| Relinquished by/Company: (Signature) Ryan Williams / Pace | 2/21/24 1512 | Received by/Company: (Signature) | 2/21/24 | [ ] FedEX [ ] UPS [ ] Other |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Page: 1 of 1 |

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-2024S1 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): | YAT Pooled Upgradient | Purchase Order # (if applicable): | GPC82474-0002 |
| | | Quote #: | |
| Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET | | County / State origin of sample(s): | Georgia |

Data Deliverables:
[ X ] Level II [ ] Level III [ ] Level IV
[ X ] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested: Standard

DW PWSID # or WW Permit # as applicable:
Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers Plastic | Number & Type of Containers Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | Sample Comment | Preservation non-conformance identified for sample |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-YGWA-30I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-14S | WG | G | 2/20/24 | 1701 | | | | 6 | | X | X | X | X | X | See Remarks 018 | |
| YAT-YGWA-39 | WG | G | 2/20/24 | 1358 | | | | 6 | | X | X | X | X | X | See Remarks 019 | |
| YAT-YGWA-40 | WG | G | 2/20/24 | 1510 | | | | 6 | | X | X | X | X | X | See Remarks 020 | |
| YAT-YGWA-1I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-1D | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-2I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-3I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-3D | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| | | | | | | | | | | | | | | | | |

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Jessica Ware
Signature: (Arcadis) - Jessica Ware

Additional Instructions from Pace®:

| # Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C) |
|---|---|---|---|---|
| | | | | |

| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Tracking Number: |
|---|---|---|---|---|
| Jessica Ware / Arcadis | 2/21/24 0725 | Arcadis | 2/21/24 0725 | |
| Arcadis | 2/21/24 1220 | Ryan Williams / Pace | 2/21/24 1220 | Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other |
| Ryan Williams / Pace | 2/21/24 1512 | | 2/21/24 1512 | |
| | | | | Page: 2 of 3 |

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-202451 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): | YAT Pooled Upgradient | Purchase Order # (if applicable): | GPC82474-0002 |
| | | Quote #: | |
| Time Zone Collected: | [ ] AK [ ] PT [ ] MT [ ] CT [X] ET | County / State origin of sample(s): | Georgia |

Data Deliverables:
[ X ] Level II [ ] Level III [ ] Level IV
[ X ] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested: 6WC Standard

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers Plastic | Number & Type of Containers Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | Sample Comment | Preservation non-conformance identified for sample |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-YGWA-30I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-14S | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-39 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-40 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-1I | WG | G | 2/20/24 | 1202 | — | — | — | 6 | | X | X | X | X | X | See Remarks 021 | |
| YAT-YGWA-1D | WG | G | 2/20/24 | 1324 | — | — | — | 6 | | X | X | X | X | X | See Remarks 022 | |
| YAT-YGWA-2I | WG | G | 2/20/24 | 1602 | — | — | — | 6 | | X | X | X | X | X | See Remarks 023 | |
| YAT-YGWA-3I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-3D | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| | | | | | | | | | | | | | | | | |

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Mark Chest
Signature: (Arcadis) -

Additional Instructions from Pace®:

| # Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C) |
|---|---|---|---|---|
| | | | | |

| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Tracking Number: |
|---|---|---|---|---|
| Arcadis | 2/21/24 1220 | Ryan Williams / Pace | 2/21/24 1220 | |
| Ryan Williams / Pace | 2/21/24 1512 | | 2/21/24 1512 | Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Page: 1 of 2 |

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace ANALYTICAL SERVICES

**DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt**

**Effective Date: 12/01/2023**

**Laboratory receiving samples:**
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

**Sample Condition Upon Receipt**

**Client Name:** Southern Company - GA Power

**Project #:** **WO#: 92714723**

**PM: BV** **Due Date: 03/07/24**

**CLIENT: 92-GP-Yates**

**Courier:** ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:____

**Custody Seal Present?** ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No ☑ N/A

**Date/Initials Person Examining Contents:** [illegible]

**Packing Material:** ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

**Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

**Thermometer:** ☐ IR Gun ID: 230

**Type of Ice:** ☑ Wet ☐ Blue ☐ None

**Cooler Temp:** 4.3 **Correction Factor:** Add/Subtract (°C) +0.1

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

**Cooler Temp Corrected (°C):** 4.4

**USDA Regulated Soil** ( ☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

**Field Data Required?** ☐ Yes ☐ No

**COMMENTS/SAMPLE DISCREPANCY**

Lot ID of split containers:

**CLIENT NOTIFICATION/RESOLUTION**

Person contacted: Date/Time:

**Project Manager SCURF Review:** Date:

**Project Manager SRF Review:** Date:

| Pace ANALYTICAL SERVICES | DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt |
|---|---|
| | Effective Date: 12/01/2023 |

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

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

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

***Check all unpreserved Nitrates for chlorine

Project # WO#: 92714723

PM: BV Due Date: 03/07/24

CLIENT: 92-GP-Yates

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (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) | BP1N | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | 2 | | | | |
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| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

## pH Adjustment Log for Preserved Samples

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

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

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

92714723

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-2024S1 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): | YAT Pooled Upgradient | Purchase Order # (if applicable): | GPC82474-0002 |
| | | Quote #: | |
| Time Zone Collected: | [ ] AK [ ] PT [ ] MT [ ] CT [X] ET | County / State origin of sample(s): | Georgia |

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers Plastic | Number & Type of Containers Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | | | | | | Sample Comment | Preservation non-conformance identified for sample. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Specify Container Size ** | | | | | | | | | | 3 | 3 | 2 | 1 | 3 | | | | | | | |
| Identify Container Preservative Type*** | | | | | | | | | | 2 | 1 | 1 | 2 | 1 | | | | | | | |
| Analysis Requested | | | | | | | | | | | | | | | | | | | | | |
| YAT-YGWA-30I | WG | G | | | | | | 6 | | X | X | X | X | X | | | | | | See Remarks | |
| YAT-YGWA-14S | WG | G | 2/23/24 | 1100 | | | | 6 | | X | X | X | X | X | | | | | | See Remarks 024 | |
| YAT-YGWA-39 | WG | G | | | | | | 6 | | X | X | X | X | X | | | | | | See Remarks | |
| YAT-YGWA-40 | WG | G | | | | | | 6 | | X | X | X | X | X | | | | | | See Remarks | |
| YAT-YGWA-1I | WG | G | | | | | | 6 | | X | X | X | X | X | | | | | | See Remarks | |
| YAT-YGWA-1D | WG | G | | | | | | 6 | | X | X | X | X | X | | | | | | See Remarks | |
| YAT-YGWA-2I | WG | G | | | | | | 6 | | X | X | X | X | X | | | | | | See Remarks | |
| YAT-YGWA-3I | WG | G | | | | | | 6 | | X | X | X | X | X | | | | | | See Remarks | |
| YAT-YGWA-3D | WG | G | | | | | | 6 | | X | X | X | X | X | | | | | | See Remarks | |
| | | | | | | | | | | | | | | | | | | | | | |

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) -
Signature: (Arcadis) - David Prouty

Additional Instructions from Pace®:
# Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Tracking Number: |
|---|---|---|---|---|
| | 2/23/24 1230 | Jessica Dow / Arcadis | 2/23/24 1230 | |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Delivered by: [ ] In- Person [ ] Courier |
| Jessica Dow / Arcadis | 2/24/24 1133 | MTW | 2/24/24 1133 | [ ] FedEX [ ] UPS [ ] Other |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Page: 1 of 1 |

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

| Pace Analytical Services | DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt |
|---|---|
| | Effective Date: 12/01/2023 |

**Laboratory receiving samples:**
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

**Sample Condition Upon Receipt**

Client Name: Southern Company - GA Power

Project #:

**WO# : 92714723**
PM: BV Due Date: 03/07/24
CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☐ No ☒ N/A

Date/Initials Person Examining Contents: MPV

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C) +0.1

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

Cooler Temp Corrected (°C): 4.4

USDA Regulated Soil ( ☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

| Pace ANALYTICAL SERVICES | DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt |
|---|---|
| | Effective Date: 12/01/2023 |

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Project # **WO# : 92714723**

PM: BV Due Date: 03/07/24

CLIENT: 92-GP-Yates

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (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) | 1361N | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | 2 | | | | |
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| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**pH Adjustment Log for Preserved Samples**

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

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

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-202451 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): | YAT Pooled Upgradient | Purchase Order # (if applicable): | GPCB2474-0002 |
| | | Quote #: | |
| Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET | | County / State origin of sample(s): | Georgia |

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers Plastic | Number & Type of Containers Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | App I/II Metals | Sample Comment | Preservation non-conformance identified for sample. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-YGWA-47 | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-GWA-2 | WG | G | | | | | | 6 | | X | X | X | X | X | X | See Remarks | |
| YAT-YGWA-41 | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-5I | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-5D | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-17S | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-18S | WG | G | 2/23/24 | 0925 | | | | 6 | | X | X | X | X | X | | See Remarks 025 | |
| YAT-YGWA-18I | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-20S | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-21I | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) David Routy
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

| | Date/Time: | Received by/Company: (Signature) | Date/Time: | Tracking Number: |
|---|---|---|---|---|
| Relinquished by/Company: (Signature) | 2/23/24 1230 | Received by/Company: (Signature) Jordan Cox / Arcadis | 2/23/24 1230 | |
| Relinquished by/Company: (Signature) Jordan Cox / Arcadis | 2/24/24 1133 | Received by/Company: (Signature) Maw | 2/24/24 1133 | Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Page: of |

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace ANALYTICAL SERVICES

**DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt**

**Effective Date: 12/01/2023**

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

**Sample Condition Upon Receipt**

Client Name: Southern Company - GA Power

Project #:

**WO#: 92714723**

**PM: BV** **Due Date: 03/07/24**

**CLIENT: 92-GP-Yates**

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☐ No ☒ N/A Date/Initials Person Examining Contents:

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☐ IR Gun ID: 230 Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C) +0.1

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

Cooler Temp Corrected (°C): 4.4

USDA Regulated Soil ( ☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

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

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

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

***Check all unpreserved Nitrates for chlorine

Project #

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass Jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A – lab) | SP2T-250 mL Sterile Plastic (N/A – lab) | BPIN | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | 2 | 4 | | | |
| 2 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | 2 | 4 | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

## pH Adjustment Log for Preserved Samples

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

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

Pace® Location Requested (City/State): Face Analytical Charlotte, 9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-202452 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): | YAT Pooled Upgradient | Purchase Order # (if applicable): | GPC32474-0002 |
| | | Quote #: | |
| Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET | | County / State origin of sample(s): | Georgia |

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, NCAA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type ***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers: Plastic | Number & Type of Containers: Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | Sample Comment | Preservation non-conformance identified for samples |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-UGRD-EB-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-UGRD-FB-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-UGRD-EB-2 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-UGRD-FB-2 | WG | G | ~~2/23/24~~ | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-UGRD-FD-1 | WG | G | 2/23/24 | — | | | | 6 | | X | X | X | X | X | See Remarks 0526 | |
| YAT-UGRD-FD-2 | WG | G | 2/23/24 | — | | | | 6 | | X | X | X | X | X | See Remarks 0527 | |

Lab Use Only: Proj. Mgr: Bonnie Vang; Accolum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) -
Signature: (Arcadis)

Additional Instructions from Pace®:

| # Coolers | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C) |
|---|---|---|---|---|

| | Date/Time | Received by/Company: (Signature) | Date/Time | Tracking Number: |
|---|---|---|---|---|
| Relinquished by/Company: (Signature) | 2/23/24 1230 | Received by/Company: (Signature) Arcadis | 2/23/24 1230 | |
| Relinquished by/Company: (Signature) | 2/24/24 1133 | Received by/Company: (Signature) | 2/24/24 1133 | Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Page: 1 of 1 |

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**Pace Analytical Services, LLC**
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 21, 2024

Lauren Hartley
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between February 21, 2024 and February 24, 2024. 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,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis



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(704)875-9092

# CERTIFICATIONS

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**Pace Analytical Services Pennsylvania**
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
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 #: PA014572023-03
New Hampshire/TNI Certification #: 297622
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 #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad



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## SAMPLE SUMMARY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **92714724001** | **YAT-YGWA-47** | Water | 02/20/24 10:30 | 02/21/24 15:12 |
| **92714724002** | **YAT-GWA-2** | Water | 02/20/24 11:50 | 02/21/24 15:12 |
| **92714724003** | **YAT-YGWA-4I** | Water | 02/20/24 11:10 | 02/21/24 15:12 |
| **92714724004** | **YAT-YGWA-5I** | Water | 02/20/24 12:18 | 02/21/24 15:12 |
| **92714724005** | **YAT-YGWA-5D** | Water | 02/20/24 13:25 | 02/21/24 15:12 |
| **92714724006** | **YAT-YGWA-20S** | Water | 02/20/24 14:40 | 02/21/24 15:12 |
| **92714724007** | **YAT-YGWA-21I** | Water | 02/20/24 16:38 | 02/21/24 15:12 |
| **92714724008** | **YAT-YGWA-17S** | Water | 02/20/24 10:37 | 02/21/24 15:12 |
| **92714724010** | **YAT-YGWA-18I** | Water | 02/20/24 12:48 | 02/21/24 15:12 |
| **92714724011** | **YAT-UGRD-EB-1** | Water | 02/20/24 17:15 | 02/21/24 15:12 |
| **92714724012** | **YAT-UGRD-FB-1** | Water | 02/20/24 15:35 | 02/21/24 15:12 |
| **92714724013** | **YAT-UGRD-EB-2** | Water | 02/20/24 15:55 | 02/21/24 15:12 |
| **92714724014** | **YAT-UGRD-FB-2** | Water | 02/20/24 17:00 | 02/21/24 15:12 |
| **92714724015** | **YAT-YGWA-30I** | Water | 02/20/24 16:25 | 02/21/24 15:12 |
| **92714724016** | **YAT-YGWA-3I** | Water | 02/20/24 13:50 | 02/21/24 15:12 |
| **92714724017** | **YAT-YGWA-3D** | Water | 02/20/24 11:35 | 02/21/24 15:12 |
| **92714724019** | **YAT-YGWA-39** | Water | 02/20/24 13:58 | 02/21/24 15:12 |
| **92714724020** | **YAT-YGWA-40** | Water | 02/20/24 15:10 | 02/21/24 15:12 |
| **92714724021** | **YAT-YGWA-1I** | Water | 02/20/24 12:02 | 02/21/24 15:12 |
| **92714724022** | **YAT-YGWA-1D** | Water | 02/20/24 13:24 | 02/21/24 15:12 |
| **92714724023** | **YAT-YGWA-2I** | Water | 02/20/24 16:02 | 02/21/24 15:12 |
| **92714724024** | **YAT-YGWA-14S** | Water | 02/23/24 11:00 | 02/24/24 11:33 |
| **92714724025** | **YAT-YGWA-18S** | Water | 02/23/24 09:25 | 02/24/24 11:33 |
| **92714724026** | **YAT-UGRD-FD-1** | Water | 02/23/24 00:00 | 02/24/24 11:33 |
| **92714724027** | **YAT-UGRD-FD-2** | Water | 02/23/24 00:00 | 02/24/24 11:33 |



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## SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **92714724001** | **YAT-YGWA-47** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| **92714724002** | **YAT-GWA-2** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| **92714724003** | **YAT-YGWA-4I** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| **92714724004** | **YAT-YGWA-5I** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| **92714724005** | **YAT-YGWA-5D** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| **92714724006** | **YAT-YGWA-20S** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| **92714724007** | **YAT-YGWA-21I** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| **92714724008** | **YAT-YGWA-17S** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| **92714724010** | **YAT-YGWA-18I** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| **92714724011** | **YAT-UGRD-EB-1** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| **92714724012** | **YAT-UGRD-FB-1** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| **92714724013** | **YAT-UGRD-EB-2** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| **92714724014** | **YAT-UGRD-FB-2** | EPA 9315 | SLC | 1 | PASI-PA |

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| **92714724015** | **YAT-YGWA-30I** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| **92714724016** | **YAT-YGWA-3I** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| **92714724017** | **YAT-YGWA-3D** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| **92714724019** | **YAT-YGWA-39** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| **92714724020** | **YAT-YGWA-40** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| **92714724021** | **YAT-YGWA-1I** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| **92714724022** | **YAT-YGWA-1D** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| **92714724023** | **YAT-YGWA-2I** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| **92714724024** | **YAT-YGWA-14S** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| **92714724025** | **YAT-YGWA-18S** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| **92714724026** | **YAT-UGRD-FD-1** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| **92714724027** | **YAT-UGRD-FD-2** | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | ZPC | 1 | PASI-PA |

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## SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| | | Total Radium Calculation | JAL | 1 | PASI-PA |

PASI-PA = Pace Analytical Services - Greensburg



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## SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **92714724001** | **YAT-YGWA-47** | | | | | |
| EPA 9315 | Radium-226 | 0.277 ± 0.175 (0.267) C:86% T:NA | pCi/L | | 03/15/24 08:19 | |
| EPA 9320 | Radium-228 | 0.662U ± 0.432 (0.822) C:73% T:82% | pCi/L | | 03/11/24 12:57 | |
| Total Radium Calculation | Total Radium | 0.939U ± 0.607 (1.09) | pCi/L | | 03/15/24 11:17 | |
| **92714724002** | **YAT-GWA-2** | | | | | |
| EPA 9315 | Radium-226 | 0.356 ± 0.211 (0.337) C:81% T:NA | pCi/L | | 03/15/24 08:19 | |
| EPA 9320 | Radium-228 | 0.622U ± 0.472 (0.938) C:73% T:81% | pCi/L | | 03/11/24 12:57 | |
| Total Radium Calculation | Total Radium | 0.978U ± 0.683 (1.28) | pCi/L | | 03/15/24 11:17 | |
| **92714724003** | **YAT-YGWA-4I** | | | | | |
| EPA 9315 | Radium-226 | 0.710 ± 0.275 (0.319) C:84% T:NA | pCi/L | | 03/15/24 08:19 | |
| EPA 9320 | Radium-228 | 0.393U ± 0.395 (0.815) C:73% T:84% | pCi/L | | 03/11/24 12:57 | |
| Total Radium Calculation | Total Radium | 1.10U ± 0.670 (1.13) | pCi/L | | 03/15/24 11:17 | |
| **92714724004** | **YAT-YGWA-5I** | | | | | |
| EPA 9315 | Radium-226 | 0.0401U ± 0.124 (0.302) C:92% T:NA | pCi/L | | 03/15/24 08:19 | |
| EPA 9320 | Radium-228 | 0.590U ± 0.404 (0.784) C:75% T:92% | pCi/L | | 03/11/24 12:54 | |
| Total Radium Calculation | Total Radium | 0.630U ± 0.528 (1.09) | pCi/L | | 03/15/24 11:17 | |

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## SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **92714724005** | **YAT-YGWA-5D** | | | | | |
| EPA 9315 | Radium-226 | 1.96 ± 0.483 (0.315) C:89% T:NA | pCi/L | | 03/15/24 08:20 | |
| EPA 9320 | Radium-228 | 0.837 ± 0.430 (0.760) C:77% T:83% | pCi/L | | 03/11/24 12:57 | |
| Total Radium Calculation | Total Radium | 2.80 ± 0.913 (1.08) | pCi/L | | 03/15/24 11:17 | |
| **92714724006** | **YAT-YGWA-20S** | | | | | |
| EPA 9315 | Radium-226 | -0.00558U ± 0.129 (0.343) C:94% T:NA | pCi/L | | 03/15/24 08:20 | |
| EPA 9320 | Radium-228 | 0.165U ± 0.377 (0.836) C:73% T:87% | pCi/L | | 03/11/24 12:57 | |
| Total Radium Calculation | Total Radium | 0.165U ± 0.506 (1.18) | pCi/L | | 03/15/24 11:17 | |
| **92714724007** | **YAT-YGWA-21I** | | | | | |
| EPA 9315 | Radium-226 | 0.483 ± 0.227 (0.300) C:88% T:NA | pCi/L | | 03/15/24 08:20 | |
| EPA 9320 | Radium-228 | 0.707U ± 0.415 (0.774) C:78% T:86% | pCi/L | | 03/11/24 12:57 | |
| Total Radium Calculation | Total Radium | 1.19 ± 0.642 (1.07) | pCi/L | | 03/15/24 11:17 | |
| **92714724008** | **YAT-YGWA-17S** | | | | | |
| EPA 9315 | Radium-226 | 0.0387U ± 0.120 (0.294) C:92% T:NA | pCi/L | | 03/15/24 08:21 | |
| EPA 9320 | Radium-228 | -0.238U ± 0.300 (0.744) C:75% T:92% | pCi/L | | 03/11/24 12:57 | |
| Total Radium Calculation | Total Radium | 0.0387U ± 0.420 (1.04) | pCi/L | | 03/15/24 11:17 | |

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## SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **92714724010** | **YAT-YGWA-18I** | | | | | |
| EPA 9315 | Radium-226 | 0.0680U ± 0.138 (0.320) C:95% T:NA | pCi/L | | 03/15/24 08:21 | |
| EPA 9320 | Radium-228 | -0.0722U ± 0.333 (0.787) C:77% T:86% | pCi/L | | 03/11/24 12:58 | |
| Total Radium Calculation | Total Radium | 0.0680U ± 0.471 (1.11) | pCi/L | | 03/15/24 11:17 | |
| **92714724011** | **YAT-UGRD-EB-1** | | | | | |
| EPA 9315 | Radium-226 | 0.0362U ± 0.126 (0.309) C:90% T:NA | pCi/L | | 03/15/24 08:21 | |
| EPA 9320 | Radium-228 | 0.275U ± 0.327 (0.688) C:78% T:83% | pCi/L | | 03/11/24 12:53 | |
| Total Radium Calculation | Total Radium | 0.311U ± 0.453 (0.997) | pCi/L | | 03/15/24 11:17 | |
| **92714724012** | **YAT-UGRD-FB-1** | | | | | |
| EPA 9315 | Radium-226 | -0.0510U ± 0.118 (0.352) C:82% T:NA | pCi/L | | 03/15/24 08:21 | |
| EPA 9320 | Radium-228 | 0.508U ± 0.327 (0.600) C:77% T:83% | pCi/L | | 03/11/24 12:53 | |
| Total Radium Calculation | Total Radium | 0.508U ± 0.445 (0.952) | pCi/L | | 03/15/24 11:17 | |
| **92714724013** | **YAT-UGRD-EB-2** | | | | | |
| EPA 9315 | Radium-226 | -0.0129U ± 0.0985 (0.288) C:92% T:NA | pCi/L | | 03/15/24 08:21 | |
| EPA 9320 | Radium-228 | 0.311U ± 0.303 (0.615) C:76% T:84% | pCi/L | | 03/11/24 12:53 | |
| Total Radium Calculation | Total Radium | 0.311U ± 0.402 (0.903) | pCi/L | | 03/15/24 11:17 | |

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## SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **92714724014** | **YAT-UGRD-FB-2** | | | | | |
| EPA 9315 | Radium-226 | 0.0596U ± 0.177 (0.426) C:80% T:NA | pCi/L | | 03/15/24 08:22 | |
| EPA 9320 | Radium-228 | 0.583U ± 0.369 (0.686) C:75% T:82% | pCi/L | | 03/11/24 12:53 | |
| Total Radium Calculation | Total Radium | 0.643U ± 0.546 (1.11) | pCi/L | | 03/15/24 11:17 | |
| **92714724015** | **YAT-YGWA-30I** | | | | | |
| EPA 9315 | Radium-226 | 0.136U ± 0.141 (0.278) C:92% T:NA | pCi/L | | 03/15/24 08:22 | |
| EPA 9320 | Radium-228 | 0.239U ± 0.383 (0.831) C:79% T:86% | pCi/L | | 03/11/24 12:53 | |
| Total Radium Calculation | Total Radium | 0.375U ± 0.524 (1.11) | pCi/L | | 03/15/24 11:17 | |
| **92714724016** | **YAT-YGWA-3I** | | | | | |
| EPA 9315 | Radium-226 | 0.738 ± 0.284 (0.332) C:85% T:NA | pCi/L | | 03/15/24 08:22 | |
| EPA 9320 | Radium-228 | 0.354U ± 0.372 (0.773) C:78% T:87% | pCi/L | | 03/11/24 12:54 | |
| Total Radium Calculation | Total Radium | 1.09U ± 0.656 (1.11) | pCi/L | | 03/15/24 11:17 | |
| **92714724017** | **YAT-YGWA-3D** | | | | | |
| EPA 9315 | Radium-226 | 0.951 ± 0.308 (0.287) C:94% T:NA | pCi/L | | 03/15/24 08:22 | |
| EPA 9320 | Radium-228 | 1.61 ± 0.553 (0.815) C:79% T:91% | pCi/L | | 03/11/24 12:54 | |
| Total Radium Calculation | Total Radium | 2.56 ± 0.861 (1.10) | pCi/L | | 03/15/24 11:17 | |

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## SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **92714724019** | **YAT-YGWA-39** | | | | | |
| EPA 9315 | Radium-226 | 0.215U ± 0.193 (0.375) C:82% T:NA | pCi/L | | 03/15/24 08:22 | |
| EPA 9320 | Radium-228 | 0.486U ± 0.459 (0.935) C:70% T:80% | pCi/L | | 03/11/24 16:47 | |
| Total Radium Calculation | Total Radium | 0.701U ± 0.652 (1.31) | pCi/L | | 03/15/24 11:17 | |
| **92714724020** | **YAT-YGWA-40** | | | | | |
| EPA 9315 | Radium-226 | 0.135U ± 0.131 (0.245) C:92% T:NA | pCi/L | | 03/15/24 08:22 | |
| EPA 9320 | Radium-228 | 0.302U ± 0.391 (0.828) C:71% T:81% | pCi/L | | 03/11/24 16:48 | |
| Total Radium Calculation | Total Radium | 0.437U ± 0.522 (1.07) | pCi/L | | 03/15/24 11:17 | |
| **92714724021** | **YAT-YGWA-1I** | | | | | |
| EPA 9315 | Radium-226 | 0.0994U ± 0.165 (0.369) C:93% T:NA | pCi/L | | 03/11/24 08:28 | |
| EPA 9320 | Radium-228 | 0.699U ± 0.445 (0.827) C:72% T:83% | pCi/L | | 03/11/24 16:48 | |
| Total Radium Calculation | Total Radium | 0.798U ± 0.610 (1.20) | pCi/L | | 03/14/24 16:49 | |
| **92714724022** | **YAT-YGWA-1D** | | | | | |
| EPA 9315 | Radium-226 | 0.120U ± 0.165 (0.356) C:91% T:NA | pCi/L | | 03/11/24 08:28 | |
| EPA 9320 | Radium-228 | 0.154U ± 0.422 (0.945) C:75% T:78% | pCi/L | | 03/11/24 16:48 | |
| Total Radium Calculation | Total Radium | 0.274U ± 0.587 (1.30) | pCi/L | | 03/14/24 16:49 | |



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## SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **92714724023** | **YAT-YGWA-2I** | | | | | |
| EPA 9315 | Radium-226 | -0.0626U ± 0.144 (0.431) C:76% T:NA | pCi/L | | 03/11/24 08:28 | |
| EPA 9320 | Radium-228 | 0.784 ± 0.420 (0.733) C:78% T:82% | pCi/L | | 03/11/24 16:48 | |
| Total Radium Calculation | Total Radium | 0.784U ± 0.564 (1.16) | pCi/L | | 03/14/24 16:49 | |
| **92714724024** | **YAT-YGWA-14S** | | | | | |
| EPA 9315 | Radium-226 | 0.0389U ± 0.116 (0.281) C:88% T:NA | pCi/L | | 03/18/24 10:09 | |
| EPA 9320 | Radium-228 | 0.697U ± 0.457 (0.876) C:75% T:84% | pCi/L | | 03/13/24 16:05 | |
| Total Radium Calculation | Total Radium | 0.736U ± 0.573 (1.16) | pCi/L | | 03/18/24 15:39 | |
| **92714724025** | **YAT-YGWA-18S** | | | | | |
| EPA 9315 | Radium-226 | 0.0497U ± 0.0978 (0.226) C:93% T:NA | pCi/L | | 03/18/24 10:09 | |
| EPA 9320 | Radium-228 | 0.268U ± 0.346 (0.735) C:77% T:86% | pCi/L | | 03/13/24 16:05 | |
| Total Radium Calculation | Total Radium | 0.318U ± 0.444 (0.961) | pCi/L | | 03/18/24 15:39 | |
| **92714724026** | **YAT-UGRD-FD-1** | | | | | |
| EPA 9315 | Radium-226 | -0.00856U ± 0.0756 (0.220) C:92% T:NA | pCi/L | | 03/18/24 10:09 | |
| EPA 9320 | Radium-228 | -0.0242U ± 0.378 (0.882) C:76% T:84% | pCi/L | | 03/13/24 16:06 | |
| Total Radium Calculation | Total Radium | 0.000U ± 0.454 (1.10) | pCi/L | | 03/18/24 15:39 | |

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## SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **92714724027** | **YAT-UGRD-FD-2** | | | | | |
| EPA 9315 | Radium-226 | 0.0205U ± 0.0772 (0.198) C:93% T:NA | pCi/L | | 03/18/24 08:39 | |
| EPA 9320 | Radium-228 | 0.107U ± 0.449 (1.02) C:72% T:83% | pCi/L | | 03/13/24 16:03 | |
| Total Radium Calculation | Total Radium | 0.128U ± 0.526 (1.22) | pCi/L | | 03/18/24 15:39 | |



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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**Sample: YAT-YGWA-47** **Lab ID: 92714724001** Collected: 02/20/24 10:30 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.277 ± 0.175 (0.267) C:86% T:NA** | pCi/L | 03/15/24 08:19 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.662U ± 0.432 (0.822) C:73% T:82%** | pCi/L | 03/11/24 12:57 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.939U ± 0.607 (1.09)** | pCi/L | 03/15/24 11:17 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**Sample: YAT-GWA-2** **Lab ID: 92714724002** Collected: 02/20/24 11:50 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.356 ± 0.211 (0.337) C:81% T:NA** | pCi/L | 03/15/24 08:19 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.622U ± 0.472 (0.938) C:73% T:81%** | pCi/L | 03/11/24 12:57 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.978U ± 0.683 (1.28)** | pCi/L | 03/15/24 11:17 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**Sample: YAT-YGWA-4I** **Lab ID: 92714724003** Collected: 02/20/24 11:10 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.710 ± 0.275 (0.319) C:84% T:NA** | pCi/L | 03/15/24 08:19 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.393U ± 0.395 (0.815) C:73% T:84%** | pCi/L | 03/11/24 12:57 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **1.10U ± 0.670 (1.13)** | pCi/L | 03/15/24 11:17 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**Sample: YAT-YGWA-5I** **Lab ID: 92714724004** Collected: 02/20/24 12:18 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.0401U ± 0.124 (0.302) C:92% T:NA** | pCi/L | 03/15/24 08:19 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.590U ± 0.404 (0.784) C:75% T:92%** | pCi/L | 03/11/24 12:54 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.630U ± 0.528 (1.09)** | pCi/L | 03/15/24 11:17 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**Sample: YAT-YGWA-5D** **Lab ID: 92714724005** Collected: 02/20/24 13:25 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **1.96 ± 0.483 (0.315) C:89% T:NA** | pCi/L | 03/15/24 08:20 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.837 ± 0.430 (0.760) C:77% T:83%** | pCi/L | 03/11/24 12:57 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **2.80 ± 0.913 (1.08)** | pCi/L | 03/15/24 11:17 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**Sample: YAT-YGWA-20S** **Lab ID: 92714724006** Collected: 02/20/24 14:40 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **-0.00558U ± 0.129 (0.343) C:94% T:NA** | pCi/L | 03/15/24 08:20 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.165U ± 0.377 (0.836) C:73% T:87%** | pCi/L | 03/11/24 12:57 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.165U ± 0.506 (1.18)** | pCi/L | 03/15/24 11:17 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**Sample: YAT-YGWA-21I** **Lab ID: 92714724007** Collected: 02/20/24 16:38 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.483 ± 0.227 (0.300) C:88% T:NA** | pCi/L | 03/15/24 08:20 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.707U ± 0.415 (0.774) C:78% T:86%** | pCi/L | 03/11/24 12:57 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **1.19 ± 0.642 (1.07)** | pCi/L | 03/15/24 11:17 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**Sample: YAT-YGWA-17S** **Lab ID: 92714724008** Collected: 02/20/24 10:37 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.0387U ± 0.120 (0.294) C:92% T:NA** | pCi/L | 03/15/24 08:21 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **-0.238U ± 0.300 (0.744) C:75% T:92%** | pCi/L | 03/11/24 12:57 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.0387U ± 0.420 (1.04)** | pCi/L | 03/15/24 11:17 | 7440-14-4 | |



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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**Sample: YAT-YGWA-18I** **Lab ID: 92714724010** Collected: 02/20/24 12:48 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.0680U ± 0.138 (0.320) C:95% T:NA** | pCi/L | 03/15/24 08:21 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **-0.0722U ± 0.333 (0.787) C:77% T:86%** | pCi/L | 03/11/24 12:58 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.0680U ± 0.471 (1.11)** | pCi/L | 03/15/24 11:17 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**Sample: YAT-UGRD-EB-1** **Lab ID: 92714724011** Collected: 02/20/24 17:15 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.0362U ± 0.126 (0.309) C:90% T:NA** | pCi/L | 03/15/24 08:21 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.275U ± 0.327 (0.688) C:78% T:83%** | pCi/L | 03/11/24 12:53 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.311U ± 0.453 (0.997)** | pCi/L | 03/15/24 11:17 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**Sample: YAT-UGRD-FB-1** **Lab ID: 92714724012** Collected: 02/20/24 15:35 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **-0.0510U ± 0.118 (0.352) C:82% T:NA** | pCi/L | 03/15/24 08:21 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.508U ± 0.327 (0.600) C:77% T:83%** | pCi/L | 03/11/24 12:53 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.508U ± 0.445 (0.952)** | pCi/L | 03/15/24 11:17 | 7440-14-4 | |



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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**Sample: YAT-UGRD-EB-2** **Lab ID: 92714724013** Collected: 02/20/24 15:55 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **-0.0129U ± 0.0985 (0.288) C:92% T:NA** | pCi/L | 03/15/24 08:21 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.311U ± 0.303 (0.615) C:76% T:84%** | pCi/L | 03/11/24 12:53 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.311U ± 0.402 (0.903)** | pCi/L | 03/15/24 11:17 | 7440-14-4 | |



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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**Sample: YAT-UGRD-FB-2** **Lab ID: 92714724014** Collected: 02/20/24 17:00 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.0596U ± 0.177 (0.426) C:80% T:NA** | pCi/L | 03/15/24 08:22 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.583U ± 0.369 (0.686) C:75% T:82%** | pCi/L | 03/11/24 12:53 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.643U ± 0.546 (1.11)** | pCi/L | 03/15/24 11:17 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**Sample: YAT-YGWA-30I** **Lab ID: 92714724015** Collected: 02/20/24 16:25 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.136U ± 0.141 (0.278) C:92% T:NA** | pCi/L | 03/15/24 08:22 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.239U ± 0.383 (0.831) C:79% T:86%** | pCi/L | 03/11/24 12:53 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.375U ± 0.524 (1.11)** | pCi/L | 03/15/24 11:17 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**Sample: YAT-YGWA-3I** **Lab ID: 92714724016** Collected: 02/20/24 13:50 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.738 ± 0.284 (0.332) C:85% T:NA** | pCi/L | 03/15/24 08:22 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.354U ± 0.372 (0.773) C:78% T:87%** | pCi/L | 03/11/24 12:54 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **1.09U ± 0.656 (1.11)** | pCi/L | 03/15/24 11:17 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**Sample: YAT-YGWA-3D** **Lab ID: 92714724017** Collected: 02/20/24 11:35 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.951 ± 0.308 (0.287) C:94% T:NA** | pCi/L | 03/15/24 08:22 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **1.61 ± 0.553 (0.815) C:79% T:91%** | pCi/L | 03/11/24 12:54 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **2.56 ± 0.861 (1.10)** | pCi/L | 03/15/24 11:17 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**Sample: YAT-YGWA-39** **Lab ID: 92714724019** Collected: 02/20/24 13:58 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.215U ± 0.193 (0.375) C:82% T:NA** | pCi/L | 03/15/24 08:22 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.486U ± 0.459 (0.935) C:70% T:80%** | pCi/L | 03/11/24 16:47 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.701U ± 0.652 (1.31)** | pCi/L | 03/15/24 11:17 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**Sample: YAT-YGWA-40** **Lab ID: 92714724020** Collected: 02/20/24 15:10 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.135U ± 0.131 (0.245) C:92% T:NA** | pCi/L | 03/15/24 08:22 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.302U ± 0.391 (0.828) C:71% T:81%** | pCi/L | 03/11/24 16:48 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.437U ± 0.522 (1.07)** | pCi/L | 03/15/24 11:17 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**Sample: YAT-YGWA-1I** **Lab ID: 92714724021** Collected: 02/20/24 12:02 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.0994U ± 0.165 (0.369) C:93% T:NA** | pCi/L | 03/11/24 08:28 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.699U ± 0.445 (0.827) C:72% T:83%** | pCi/L | 03/11/24 16:48 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.798U ± 0.610 (1.20)** | pCi/L | 03/14/24 16:49 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**Sample: YAT-YGWA-1D** **Lab ID: 92714724022** Collected: 02/20/24 13:24 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.120U ± 0.165 (0.356) C:91% T:NA** | pCi/L | 03/11/24 08:28 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.154U ± 0.422 (0.945) C:75% T:78%** | pCi/L | 03/11/24 16:48 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.274U ± 0.587 (1.30)** | pCi/L | 03/14/24 16:49 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**Sample: YAT-YGWA-2I** **Lab ID: 92714724023** Collected: 02/20/24 16:02 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **-0.0626U ± 0.144 (0.431) C:76% T:NA** | pCi/L | 03/11/24 08:28 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.784 ± 0.420 (0.733) C:78% T:82%** | pCi/L | 03/11/24 16:48 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.784U ± 0.564 (1.16)** | pCi/L | 03/14/24 16:49 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**Sample: YAT-YGWA-14S** **Lab ID: 92714724024** Collected: 02/23/24 11:00 Received: 02/24/24 11:33 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.0389U ± 0.116 (0.281) C:88% T:NA** | pCi/L | 03/18/24 10:09 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.697U ± 0.457 (0.876) C:75% T:84%** | pCi/L | 03/13/24 16:05 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.736U ± 0.573 (1.16)** | pCi/L | 03/18/24 15:39 | 7440-14-4 | |



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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**Sample: YAT-YGWA-18S** **Lab ID: 92714724025** Collected: 02/23/24 09:25 Received: 02/24/24 11:33 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.0497U ± 0.0978 (0.226) C:93% T:NA** | pCi/L | 03/18/24 10:09 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.268U ± 0.346 (0.735) C:77% T:86%** | pCi/L | 03/13/24 16:05 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.318U ± 0.444 (0.961)** | pCi/L | 03/18/24 15:39 | 7440-14-4 | |



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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**Sample: YAT-UGRD-FD-1** **Lab ID: 92714724026** Collected: 02/23/24 00:00 Received: 02/24/24 11:33 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **-0.00856U ± 0.0756 (0.220) C:92% T:NA** | pCi/L | 03/18/24 10:09 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **-0.0242U ± 0.378 (0.882) C:76% T:84%** | pCi/L | 03/13/24 16:06 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.000U ± 0.454 (1.10)** | pCi/L | 03/18/24 15:39 | 7440-14-4 | |

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**Sample: YAT-UGRD-FD-2** **Lab ID: 92714724027** Collected: 02/23/24 00:00 Received: 02/24/24 11:33 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | **0.0205U ± 0.0772 (0.198) C:93% T:NA** | pCi/L | 03/18/24 08:39 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | **0.107U ± 0.449 (1.02) C:72% T:83%** | pCi/L | 03/13/24 16:03 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | **0.128U ± 0.526 (1.22)** | pCi/L | 03/18/24 15:39 | 7440-14-4 | |

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## QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

QC Batch: 652557 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92714724024, 92714724025, 92714724026, 92714724027

METHOD BLANK: 3178917 Matrix: Water
Associated Lab Samples: 92714724024, 92714724025, 92714724026, 92714724027

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|---|---|---|---|---|
| Radium-228 | -0.0560 ± 0.345 (0.817) C:73% T:88% | pCi/L | 03/13/24 16:06 | |

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## QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

QC Batch: 651356
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92714724001, 92714724002, 92714724003, 92714724004, 92714724005, 92714724006, 92714724007, 92714724008, 92714724010, 92714724011, 92714724012, 92714724013, 92714724014, 92714724015, 92714724016, 92714724017

METHOD BLANK: 3173418
Matrix: Water
Associated Lab Samples: 92714724001, 92714724002, 92714724003, 92714724004, 92714724005, 92714724006, 92714724007, 92714724008, 92714724010, 92714724011, 92714724012, 92714724013, 92714724014, 92714724015, 92714724016, 92714724017

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|---|---|---|---|---|
| Radium-228 | 0.370 ± 0.335 (0.678) C:78% T:87% | pCi/L | 03/11/24 12:58 | |

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## QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

QC Batch: 651196 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92714724001, 92714724002, 92714724003, 92714724004, 92714724005, 92714724006, 92714724007, 92714724008, 92714724010, 92714724011, 92714724012, 92714724013, 92714724014, 92714724015, 92714724016, 92714724017, 92714724019, 92714724020

METHOD BLANK: 3172765 Matrix: Water
Associated Lab Samples: 92714724001, 92714724002, 92714724003, 92714724004, 92714724005, 92714724006, 92714724007, 92714724008, 92714724010, 92714724011, 92714724012, 92714724013, 92714724014, 92714724015, 92714724016, 92714724017, 92714724019, 92714724020

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|---|---|---|---|---|
| Radium-226 | -0.0176 ± 0.0702 (0.223) C:92% T:NA | pCi/L | 03/15/24 08:19 | |

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## QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

QC Batch: 651197
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92714724021, 92714724022, 92714724023

METHOD BLANK: 3172766 Matrix: Water
Associated Lab Samples: 92714724021, 92714724022, 92714724023

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|---|---|---|---|---|
| Radium-226 | 0.0136 ± 0.137 (0.359) C:89% T:NA | pCi/L | 03/11/24 10:01 | |

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## QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

QC Batch: 651359
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92714724019, 92714724020, 92714724021, 92714724022, 92714724023

METHOD BLANK: 3173423 Matrix: Water
Associated Lab Samples: 92714724019, 92714724020, 92714724021, 92714724022, 92714724023

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|---|---|---|---|---|
| Radium-228 | 0.310 ± 0.405 (0.865) C:73% T:92% | pCi/L | 03/11/24 16:47 | |

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## QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

QC Batch: 652903 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92714724024, 92714724025, 92714724026, 92714724027

METHOD BLANK: 3180680 Matrix: Water
Associated Lab Samples: 92714724024, 92714724025, 92714724026, 92714724027

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|---|---|---|---|---|
| Radium-226 | -0.0533 ± 0.0799 (0.258) C:95% T:NA | pCi/L | 03/18/24 08:33 | |

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# QUALIFIERS

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

**DEFINITIONS**

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

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

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.



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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **92714724001** | **YAT-YGWA-47** | EPA 9315 | 651196 | | |
| **92714724002** | **YAT-GWA-2** | EPA 9315 | 651196 | | |
| **92714724003** | **YAT-YGWA-4I** | EPA 9315 | 651196 | | |
| **92714724004** | **YAT-YGWA-5I** | EPA 9315 | 651196 | | |
| **92714724005** | **YAT-YGWA-5D** | EPA 9315 | 651196 | | |
| **92714724006** | **YAT-YGWA-20S** | EPA 9315 | 651196 | | |
| **92714724007** | **YAT-YGWA-21I** | EPA 9315 | 651196 | | |
| **92714724008** | **YAT-YGWA-17S** | EPA 9315 | 651196 | | |
| **92714724010** | **YAT-YGWA-18I** | EPA 9315 | 651196 | | |
| **92714724011** | **YAT-UGRD-EB-1** | EPA 9315 | 651196 | | |
| **92714724012** | **YAT-UGRD-FB-1** | EPA 9315 | 651196 | | |
| **92714724013** | **YAT-UGRD-EB-2** | EPA 9315 | 651196 | | |
| **92714724014** | **YAT-UGRD-FB-2** | EPA 9315 | 651196 | | |
| **92714724015** | **YAT-YGWA-30I** | EPA 9315 | 651196 | | |
| **92714724016** | **YAT-YGWA-3I** | EPA 9315 | 651196 | | |
| **92714724017** | **YAT-YGWA-3D** | EPA 9315 | 651196 | | |
| **92714724019** | **YAT-YGWA-39** | EPA 9315 | 651196 | | |
| **92714724020** | **YAT-YGWA-40** | EPA 9315 | 651196 | | |
| **92714724021** | **YAT-YGWA-1I** | EPA 9315 | 651197 | | |
| **92714724022** | **YAT-YGWA-1D** | EPA 9315 | 651197 | | |
| **92714724023** | **YAT-YGWA-2I** | EPA 9315 | 651197 | | |
| **92714724024** | **YAT-YGWA-14S** | EPA 9315 | 652903 | | |
| **92714724025** | **YAT-YGWA-18S** | EPA 9315 | 652903 | | |
| **92714724026** | **YAT-UGRD-FD-1** | EPA 9315 | 652903 | | |
| **92714724027** | **YAT-UGRD-FD-2** | EPA 9315 | 652903 | | |
| **92714724001** | **YAT-YGWA-47** | EPA 9320 | 651356 | | |
| **92714724002** | **YAT-GWA-2** | EPA 9320 | 651356 | | |
| **92714724003** | **YAT-YGWA-4I** | EPA 9320 | 651356 | | |
| **92714724004** | **YAT-YGWA-5I** | EPA 9320 | 651356 | | |
| **92714724005** | **YAT-YGWA-5D** | EPA 9320 | 651356 | | |
| **92714724006** | **YAT-YGWA-20S** | EPA 9320 | 651356 | | |
| **92714724007** | **YAT-YGWA-21I** | EPA 9320 | 651356 | | |
| **92714724008** | **YAT-YGWA-17S** | EPA 9320 | 651356 | | |
| **92714724010** | **YAT-YGWA-18I** | EPA 9320 | 651356 | | |
| **92714724011** | **YAT-UGRD-EB-1** | EPA 9320 | 651356 | | |
| **92714724012** | **YAT-UGRD-FB-1** | EPA 9320 | 651356 | | |
| **92714724013** | **YAT-UGRD-EB-2** | EPA 9320 | 651356 | | |
| **92714724014** | **YAT-UGRD-FB-2** | EPA 9320 | 651356 | | |
| **92714724015** | **YAT-YGWA-30I** | EPA 9320 | 651356 | | |
| **92714724016** | **YAT-YGWA-3I** | EPA 9320 | 651356 | | |
| **92714724017** | **YAT-YGWA-3D** | EPA 9320 | 651356 | | |
| **92714724019** | **YAT-YGWA-39** | EPA 9320 | 651359 | | |
| **92714724020** | **YAT-YGWA-40** | EPA 9320 | 651359 | | |
| **92714724021** | **YAT-YGWA-1I** | EPA 9320 | 651359 | | |
| **92714724022** | **YAT-YGWA-1D** | EPA 9320 | 651359 | | |
| **92714724023** | **YAT-YGWA-2I** | EPA 9320 | 651359 | | |

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **92714724024** | **YAT-YGWA-14S** | EPA 9320 | 652557 | | |
| **92714724025** | **YAT-YGWA-18S** | EPA 9320 | 652557 | | |
| **92714724026** | **YAT-UGRD-FD-1** | EPA 9320 | 652557 | | |
| **92714724027** | **YAT-UGRD-FD-2** | EPA 9320 | 652557 | | |
| **92714724001** | **YAT-YGWA-47** | Total Radium Calculation | 655435 | | |
| **92714724002** | **YAT-GWA-2** | Total Radium Calculation | 655435 | | |
| **92714724003** | **YAT-YGWA-4I** | Total Radium Calculation | 655435 | | |
| **92714724004** | **YAT-YGWA-5I** | Total Radium Calculation | 655435 | | |
| **92714724005** | **YAT-YGWA-5D** | Total Radium Calculation | 655435 | | |
| **92714724006** | **YAT-YGWA-20S** | Total Radium Calculation | 655435 | | |
| **92714724007** | **YAT-YGWA-21I** | Total Radium Calculation | 655435 | | |
| **92714724008** | **YAT-YGWA-17S** | Total Radium Calculation | 655435 | | |
| **92714724010** | **YAT-YGWA-18I** | Total Radium Calculation | 655435 | | |
| **92714724011** | **YAT-UGRD-EB-1** | Total Radium Calculation | 655435 | | |
| **92714724012** | **YAT-UGRD-FB-1** | Total Radium Calculation | 655435 | | |
| **92714724013** | **YAT-UGRD-EB-2** | Total Radium Calculation | 655435 | | |
| **92714724014** | **YAT-UGRD-FB-2** | Total Radium Calculation | 655435 | | |
| **92714724015** | **YAT-YGWA-30I** | Total Radium Calculation | 655435 | | |
| **92714724016** | **YAT-YGWA-3I** | Total Radium Calculation | 655435 | | |
| **92714724017** | **YAT-YGWA-3D** | Total Radium Calculation | 655435 | | |
| **92714724019** | **YAT-YGWA-39** | Total Radium Calculation | 655435 | | |
| **92714724020** | **YAT-YGWA-40** | Total Radium Calculation | 655435 | | |
| **92714724021** | **YAT-YGWA-1I** | Total Radium Calculation | 655250 | | |
| **92714724022** | **YAT-YGWA-1D** | Total Radium Calculation | 655250 | | |
| **92714724023** | **YAT-YGWA-2I** | Total Radium Calculation | 655250 | | |
| **92714724024** | **YAT-YGWA-14S** | Total Radium Calculation | 655855 | | |
| **92714724025** | **YAT-YGWA-18S** | Total Radium Calculation | 655855 | | |
| **92714724026** | **YAT-UGRD-FD-1** | Total Radium Calculation | 655855 | | |
| **92714724027** | **YAT-UGRD-FD-2** | Total Radium Calculation | 655855 | | |



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| Pace ANALYTICAL SERVICES | DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt |
|---|---|
| | Effective Date: 12/01/2023 |

**Laboratory receiving samples:**
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

**Sample Condition Upon Receipt**

**Client Name:** Ga Power

**Project #:**

**WO# : 92714724**

92714724

**Courier:** ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

**Custody Seal Present?** ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A **Date/Initials Person Examining Contents:** 7/11/24 SK

**Packing Material:** ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

**Thermometer:** ☑ IR Gun ID: 730 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

**Cooler Temp:** 4.3 **Correction Factor:** Add/Subtract (°C) -0.1

**Cooler Temp Corrected (°C):** 4.4

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

**USDA Regulated Soil** ( ☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

**Field Data Required?** ☐ Yes ☐ No

**COMMENTS/SAMPLE DISCREPANCY**

Lot ID of split containers:

**CLIENT NOTIFICATION/RESOLUTION**

Person contacted: _____ Date/Time: _____

**Project Manager SCURF Review:** _____ **Date:** _____

**Project Manager SRF Review:** _____ **Date:** _____

| Pace ANALYTICAL SERVICES | DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt |
|---|---|
| | Effective Date: 12/01/2023 |

**WO#: 92714724**

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

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

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

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

***Check all unpreserved Nitrates for chlorine

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (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) | Vapor | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | | |
| 2 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | | |
| 3 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | | |
| 4 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | | |
| 5 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | | |
| 6 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | | |
| 7 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | | |
| 8 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | | |
| 9 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

## pH Adjustment Log for Preserved Samples

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

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

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

92714724

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-2024S1 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient | | Purchase Order # (if applicable): | GPC82474-0002 |
| | | Quote #: | |

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers Plastic | Number & Type of Containers Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | App I/II Metals | Sample Comment | Preservation non-conformance identified for sample |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-YGWA-47 | WG | G | 2/20/24 | 1030 | | | | 6 | | X | X | X | X | X | | See Remarks 001 | |
| YAT-GWA-2 | WG | G | 2/20/24 | 1150 | | | | 6 | | X | X | X | X | X | X | See Remarks 002 | |
| YAT-YGWA-4I | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-5I | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-5D | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-17S | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-18S | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-18I | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-20S | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-21I | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Jake Swanson
Signature: (Arcadis) -

Additional Instructions from Pace®:

| # Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C) |
|---|---|---|---|---|
| | | | | |

| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Tracking Number: |
|---|---|---|---|---|
| /Arcadis | 2/20/24 / 1730 | /Arcadis | 2/20/24 / 1730 | |
| | 2/21/24 1220 | Ryan Williams / Pace | 2/21/24 1220 | Delivered by: [ ] In- Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other |
| Ryan Williams / Pace | 2/21/24 1512 | | 2/21/24 1512 | |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Page: of |

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-202451 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): | YAT Pooled Upgradient | Purchase Order # (if applicable): | GPC82474-0002 |
| | | Quote #: | |
| Time Zone Collected: | [ ] AK [ ] PT [ ] MT [ ] CT [X] ET | County / State origin of sample(s): | Georgia |

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: STANDARD TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers Plastic | Number & Type of Containers Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | App I/II Metals | Sample Comment | Preservation non-conformance identified for sample |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-YGWA-47 | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-GWA-2 | WG | G | | | | | | 6 | | X | X | X | X | X | X | See Remarks | |
| YAT-YGWA-4I | WG | G | 2/20/24 | 1110 | — | — | | 6 | | X | X | X | X | X | | See Remarks 003 | |
| YAT-YGWA-5I | WG | G | 2/20/24 | 1218 | — | — | | 6 | | X | X | X | X | X | | See Remarks 004 | |
| YAT-YGWA-5D | WG | G | 2/20/24 | 1325 | — | — | | 6 | | X | X | X | X | X | | See Remarks 005 | |
| YAT-YGWA-17S | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-18S | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-18I | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-20S | WG | G | 2/20/24 | 1440 | — | — | | 6 | | X | X | X | X | X | | See Remarks 006 | |
| YAT-YGWA-21I | WG | G | 2/20/24 | 1635 | — | — | | 6 | | X | X | X | X | X | | See Remarks 007 | |

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM LIAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

| # Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C) |
|---|---|---|---|---|
| | | | | |

| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: |
|---|---|---|---|
| ARCADIS | 2/21/24 0810 | Arcadis | 2/21/24 0810 |
| Arcadis | 2/24/24 1220 | Ryan Williams / Pace | 2/24/24 1220 |
| Ryan Williams / Pace | 2/24/24 1512 | | 2/24/24 1512 |
| | | | |

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: 1 of 2

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-2024S1 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): | YAT Pooled Upgradient | Purchase Order # (if applicable): | GPC82474-0002 |
| | | Quote #: | |

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:
Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers Plastic | Number & Type of Containers Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | App I/II Metals | Sample Comment | Preservation non-conformance identified for sample |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-YGWA-47 | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-GWA-2 | WG | G | | | | | | 6 | | X | X | X | X | X | X | See Remarks | |
| YAT-YGWA-4I | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-5I | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-5D | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-17S | WG | G | 2/20/24 | 1037 | | | | 6 | | X | X | X | X | X | | See Remarks 008 | |
| YAT-YGWA-18S | WG | G | 2/20/24 | 1152 | | | | 6 | | X | X | X | X | X | | See Remarks 009 | |
| YAT-YGWA-18I | WG | G | 2/20/24 | 1248 | | | | 6 | | X | X | X | X | X | | See Remarks 010 | |
| YAT-YGWA-20S | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-21I | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

| # Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C) |
|---|---|---|---|---|
| | | | | |

| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Tracking Number: |
|---|---|---|---|---|
| Jessica Ware / Arcadis | 2/21/24 0725 | Kolchin / Arcadis | 2/21/24 0725 | |
| Kolchin / Arcadis | 2/21/24 1220 | Kyan Williams / Pace | 2/21/24 1226 | Delivered by: [ ] In-Person [ ] Courier |
| Kyan Williams / Pace | 2/21/24 1512 | | 2/21/24 1512 | [ ] FedEx [ ] UPS [ ] Other |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Page: 1 of 3 |

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

| Pace | DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt |
|---|---|
| | Effective Date: 12/01/2023 |

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

**Sample Condition Upon Receipt**

**WO# : 92714724**

PM: BV Due Date: 03/14/24
CLIENT: 92-GP-Yates

Client Name: Ga Power Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 7/11/24 SH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 730 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C) -0.1

Cooler Temp Corrected (°C): 4.4

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

USDA Regulated Soil ( ☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

| Pace ANALYTICAL SERVICES | DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt |
|---|---|
| | Effective Date: 12/01/2023 |

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Project # **WO# : 92714724**

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (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) | BP/R | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | 2 | | | | |
| 2 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | 2 | | | | |
| 3 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | 2 | | | | |
| 4 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | 2 | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| pH Adjustment Log for Preserved Samples | | | | | | |
|---|---|---|---|---|---|---|
| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
| | | | | | | |
| | | | | | | |
| | | | | | | |

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

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-2024S1 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient | | Purchase Order # (if applicable): | GPC82474-0002 |
| | | Quote #: | |
| Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET | | County / State origin of sample(s): | Georgia |

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested: GPC Standard

DW PWSID # or WW Permit # as applicable:
Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers Plastic | Number & Type of Containers Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | Sample Comment | Preservation non-conformance identified for sample |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-UGRD-EB-1 | WG | G | 2/20/24 | 1715 | – | – | – | 6 | | X | X | X | X | X | See Remarks 011 | |
| YAT-UGRD-FB-1 | WG | G | 2/20/24 | 1535 | – | – | – | 6 | | X | X | X | X | X | See Remarks 012 | |
| YAT-UGRD-EB-2 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-UGRD-FB-2 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-UGRD-FD-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-UGRD-FD-2 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg: For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Mark Chest
Signature: (Arcadis)

Additional Instructions from Pace®:

| # Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C) |
|---|---|---|---|---|
| | | | | |

| | | | | |
|---|---|---|---|---|
| Relinquished by/Company: (Signature) Arcadis | Date/Time: 2/21/24 1220 | Received by/Company: (Signature) Ryan Williams / Pace | Date/Time: 2/21/24 1220 | Tracking Number: |
| Relinquished by/Company: (Signature) Ryan Williams / Pace | Date/Time: 2/21/24 1512 | Received by/Company: (Signature) | Date/Time: 2/21/24 1512 | Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Page: 2 of 2 |

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-202451 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient | | Purchase Order # (if applicable): | GPC82474-0002 |
| | | Quote #: | |
| Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET | | County / State origin of sample(s): | Georgia |

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: Standard

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers Plastic | Number & Type of Containers Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | Sample Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-UGRD-EB-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks |
| YAT-UGRD-FB-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks |
| YAT-UGRD-EB-2 | WG | G | 2/20/24 | 1555 | | | | 6 | | X | X | X | X | X | See Remarks 013 |
| YAT-UGRD-FB-2 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks |
| YAT-UGRD-FD-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks |
| YAT-UGRD-FD-2 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks |

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) $HNO_3$, (3) $H_2SO_4$, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) $NaHSO_4$, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

| # Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C) |
|---|---|---|---|---|
| | | | | |

| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Tracking Number: |
|---|---|---|---|---|
| Jessica Ware / Arcadis | 2/21/24 0725 | | | |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Delivered by: [ ] In-Person [ ] Courier |
| / Arcadis | 2/21/24 1220 | Lynn Williams / Pace | 2/21/24 1220 | [ ] FedEx [ ] UPS [ ] Other |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | |
| Lynn Williams / Pace | 2/21/24 1512 | | 2/21/24 1512 | Page: 3 of 3 |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | |

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-202451 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient | | Purchase Order # (if applicable): | GPC82474-0002 |
| | | Quote #: | |
| Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET | | County / State origin of sample(s): | Georgia |

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested: STANDARD TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers Plastic | Number & Type of Containers Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | Sample Comment | Preservation non-conformance identified for sample. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-UGRD-EB-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-UGRD-FB-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-UGRD-EB-2 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-UGRD-FB-2 | WG | G | 2/20/24 | 1700 | — | — | | 6 | | X | X | X | X | X | See Remarks 014 | |
| YAT-UGRD-FD-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-UGRD-FD-2 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM UHRSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

| # Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C) |
|---|---|---|---|---|
| | | | | |

| | Date/Time: | Received by/Company: (Signature) | Date/Time: |
|---|---|---|---|
| Relinquished by/Company: (Signature) ARCADIS | 2/21/24 0810 | Arcadis | 2/21/24 0810 |
| Relinquished by/Company: (Signature) Arcadis | 2/21/24 1220 | Ryan Williams / Pace | 2/21/24 1220 |
| Relinquished by/Company: (Signature) Ryan Williams / Pace | 2/21/24 1512 | | 2/21/24 1512 |
| Relinquished by/Company: (Signature) | Date/Time | Received by/Company: (Signature) | Date/Time: |

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: 2 of 2

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

| Pace | DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt |
|---|---|
| | Effective Date: 12/01/2023 |

**Laboratory receiving samples:**
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

**Sample Condition Upon Receipt**

Client Name: Ga Power

Project #: **WO#: 92714724**

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☑ Pace ☐ Client ☐ Other:

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 7/11/24 SH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 730

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C) +0.1

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

Cooler Temp Corrected (°C): 4.4

USDA Regulated Soil ( ☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

| Pace ANALYTICAL SERVICES | DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt |
|---|---|
| | Effective Date: 12/01/2023 |

WO#: 92714724
PM: BV Due Date: 03/14/24
CLIENT: 92-GP-Yates

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project #

**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (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) | 13PIN | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | | |
| 2 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | | |
| 3 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | | |
| 4 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | | |
| 5 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | | |
| 6 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | | |
| 7 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | | |
| 8 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | X | | | | |
| 9 | | 2 | 1 | | | 1 | X | | | | | | | | | | | | | | | | | | X | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

## pH Adjustment Log for Preserved Samples

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

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

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-202451 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): | YAT Pooled Upgradient | Purchase Order # (if applicable): | GPC82474-0002 |
| | | Quote #: | |

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other
Date Results Requested: Standard

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

Specify Container Size **: 3 3 2 1 3
identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers Plastic | Number & Type of Containers Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | Sample Comment | Preservation non-conformance identified for sample |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-YGWA-30I | WG | G | 2/20/24 | 1625 | | | | 6 | | X | X | X | X | X | See Remarks 015 | |
| YAT-YGWA-14S | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-39 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-40 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-1I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-1D | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-2I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-3I | WG | G | 2/20/24 | 1350 | | | | 6 | | X | X | X | X | X | See Remarks 016 | |
| YAT-YGWA-3D | WG | G | 2/20/24 | 1135 | | | | 6 | | X | X | X | X | X | See Remarks 017 | |
| | | | ~~2/20/24~~ | ~~1135~~ | | | | | | | | | | | | |

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) -
Signature: (Arcadis) David Brady

Additional Instructions from Pace®:

| # Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C) |
|---|---|---|---|---|
| | | | | |

| | | | | |
|---|---|---|---|---|
| Relinquished by/Company: (Signature) | Date/Time: 2/21/24 0810 | Received by/Company: (Signature) Arcadis | Date/Time: 2/21/24 1810 | Tracking Number: |
| Relinquished by/Company: (Signature) Arcadis | Date/Time: 2/21/24 1920 | Received by/Company: (Signature) Ryan William / Pace | Date/Time: 2/21/24 1220 | Delivered by: [ ] In- Person [ ] Courier |
| Relinquished by/Company: (Signature) Ryan William / Pace | Date/Time: 2/21/24 1512 | Received by/Company: (Signature) | Date/Time: 2/21/24 | [ ] FedEx [ ] UPS [ ] Other |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Page: 1 of 1 |

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-2024S1 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient | | Purchase Order # (if applicable): | GPC82474-0002 |
| | | Quote #: | |

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested: Standard

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample:

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers: Plastic | Number & Type of Containers: Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | Sample Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-YGWA-30I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks |
| YAT-YGWA-14S | WG | G | 2/20/24 | 1701 | | | | 6 | | X | X | X | X | X | See Remarks 018 |
| YAT-YGWA-39 | WG | G | 2/20/24 | 1358 | | | | 6 | | X | X | X | X | X | See Remarks 019 |
| YAT-YGWA-40 | WG | G | 2/20/24 | 1510 | | | | 6 | | X | X | X | X | X | See Remarks 020 |
| YAT-YGWA-1I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks |
| YAT-YGWA-1D | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks |
| YAT-YGWA-2I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks |
| YAT-YGWA-3I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks |
| YAT-YGWA-3D | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks |
| | | | | | | | | | | | | | | | |

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Jessica Ware
Signature: (Arcadis) - Jessica Ware

Additional Instructions from Pace®:

| # Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C) |
|---|---|---|---|---|
| | | | | |

| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Tracking Number: |
|---|---|---|---|---|
| Jessica Ware (Arcadis | 2/21/24 0725 | [illegible] /Arcadis | 2/21/24 0725 | |
| [illegible] /Arcadis | 2/21/24 1220 | Ryan Williams /Pace | 2/21/24 1220 | Delivered by: [ ] In-Person [ ] Courier |
| Ryan Williams / Pace | 2/21/24 1512 | [illegible] | 2/21/24 1512 | [ ] FedEx [ ] UPS [ ] Other |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Page: 2 of 3 |

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-202451 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): | YAT Pooled Upgradient | Purchase Order # (if applicable): | GPC82474-0002 |
| | | Quote #: | |

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested: 6wk Standard

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers Plastic | Number & Type of Containers Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | Sample Comment | Preservation non-conformance identified for sample |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-YGWA-30I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-14S | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-39 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-40 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-1I | WG | G | 2/20/24 | 1202 | — | — | — | 6 | | X | X | X | X | X | See Remarks 021 | |
| YAT-YGWA-1D | WG | G | 2/20/24 | 1324 | — | — | — | 6 | | X | X | X | X | X | See Remarks 022 | |
| YAT-YGWA-2I | WG | G | 2/20/24 | 1602 | — | — | — | 6 | | X | X | X | X | X | See Remarks 023 | |
| YAT-YGWA-3I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-3D | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| | | | | | | | | | | | | | | | | |

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Mark Chest
Signature: (Arcadis) -

Additional Instructions from Pace®:

| # Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C) |
|---|---|---|---|---|
| | | | | |

| | | | | |
|---|---|---|---|---|
| Relinquished by/Company: (Signature) Mark Chest / Arcadis | Date/Time: 2/21/24 1220 | Received by/Company: (Signature) Ryan Williams / Pace | Date/Time: 2/21/24 1220 | Tracking Number: |
| Relinquished by/Company: (Signature) Ryan Williams / Pace | Date/Time: 2/21/24 1512 | Received by/Company: (Signature) | Date/Time: 2/21/24 1512 | Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Page: 1 of 2 |

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

**Sample Condition Upon Receipt**

Client Name: Southern Company - GA Power

Project #:

**WO#: 92714724**

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☐ No ☒ N/A

Date/Initials Person Examining Contents: [illegible]

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☐ IR Gun ID: 230 Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C) +0.1

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

Cooler Temp Corrected (°C): 4.4

USDA Regulated Soil ( ☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

| Pace ANALYTICAL SERVICES | DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt |
|---|---|
| | Effective Date: 12/01/2023 |

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

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

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

***Check all unpreserved Nitrates for chlorine

Project # **WO#: 92714724**

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A – lab) | SP2T-250 mL Sterile Plastic (N/A – lab) | BPIN | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | 2 | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

## pH Adjustment Log for Preserved Samples

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

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

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

92714724

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-2024S1 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): | YAT Pooled Upgradient | Purchase Order # (if applicable): | GPC82474-0002 |
| | | Quote #: | |
| Time Zone Collected: | [ ] AK [ ] PT [ ] MT [ ] CT [X] ET | County / State origin of sample(s): | Georgia |

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other:_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers Plastic | Number & Type of Containers Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | Sample Comment | Preservation non-conformance identified for sample. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-YGWA-30I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-14S | WG | G | 2/23/24 | 1100 | | | | 6 | | X | X | X | X | X | See Remarks 624 | |
| YAT-YGWA-39 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-40 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-1I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-1D | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-2I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-3I | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-YGWA-3D | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| | | | | | | | | | | | | | | | | |

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg: For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) -
Signature: (Arcadis) - David Prouty

Additional Instructions from Pace®:

| # Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C) |
|---|---|---|---|---|
| | | | | |

| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Tracking Number: |
|---|---|---|---|---|
| | 2/23/24 1230 | Jessica Dow / Arcadis | 2/23/24 1230 | |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Delivered by: [ ] In- Person [ ] Courier |
| Jessica Dow / Arcadis | 2/24/24 1133 | MTW | 2/24/24 1133 | [ ] FedEX [ ] UPS [ ] Other |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Page: 1 of 1 |

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

| Pace ANALYTICAL SERVICES | DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt |
|---|---|
| | Effective Date: 12/01/2023 |

**Laboratory receiving samples:**
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

**Sample Condition Upon Receipt**

Client Name: Southern Company - GA Power

Project #:

**WO#: 92714724**

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☐ No ☒ N/A

Date/Initials Person Examining Contents: MJW

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C) +0.1

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

Cooler Temp Corrected (°C): 4.4

USDA Regulated Soil ( ☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

| Pace ANALYTICAL SERVICES | DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt |
|---|---|
| | Effective Date: 12/01/2023 |

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

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

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

***Check all unpreserved Nitrates for chlorine

Project #

**WO# : 92714724**

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (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) | 1301N | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |
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**pH Adjustment Log for Preserved Samples**

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|---|---|---|---|---|---|---|
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Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

| | | | |
|---|---|---|---|
| Company Name: | Southern Company | Contact/Report To: | Lauren Hartley |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 | Phone #: | 470-620-6176 |
| | | E-Mail: | laucoker@southernco.com |
| | | Cc E-Mail: | Arcadis contacts |
| Customer Project #: | Task No. YAT-CCR-ASSMT-202451 | Invoice To: | |
| Project Name: | Georgia Power Yates | Invoice E-Mail: | |
| Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient | | Purchase Order # (if applicable): | GPCB2474-0002 |
| | | Quote #: | |
| Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET | | County / State origin of sample(s): | Georgia |

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers Plastic | Number & Type of Containers Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | App I/II Metals | Sample Comment | Preservation non-conformance identified for sample |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-YGWA-47 | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-GWA-2 | WG | G | | | | | | 6 | | X | X | X | X | X | X | See Remarks | |
| YAT-YGWA-4I | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-5I | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-5D | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-17S | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-18S | WG | G | 2/23/24 | 0925 | | | | 6 | | X | X | X | X | X | | See Remarks U25 | |
| YAT-YGWA-18I | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-20S | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |
| YAT-YGWA-21I | WG | G | | | | | | 6 | | X | X | X | X | X | | See Remarks | |

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) David Routt
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Tracking Number: |
|---|---|---|---|---|
| | 2/23/24 1230 | Jordan Cox / Arcadis | 2/23/24 1230 | |
| Relinquished by/Company: (Signature) Jordan Cox / Arcadis | 2/24/24 1133 | MAW | 2/24/24 1133 | Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Page: of |

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

**Sample Condition Upon Receipt**

Client Name: Southern Company - GA Power

Project #:

**WO#: 92714724**

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☐ No ☒ N/A

Date/Initials Person Examining Contents: MM

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C) +0.1

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

Cooler Temp Corrected (°C): 4.4

USDA Regulated Soil ( ☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

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

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

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

***Check all unpreserved Nitrates for chlorine

Project #

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (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) | BP1N | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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## pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|---|---|---|---|---|---|---|
| | | | | | | |
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Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave. Suite 100, Huntersville, NC 28078

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

| | |
|---|---|
| Company Name: | Southern Company |
| Street Address: | 241 Ralph McGill Blvd, Atlanta, GA 30308 |
| Customer Project #: | Task No. YAT-CCR-ASSMT-202451 |
| Project Name: | Georgia Power Yatas |
| Site Collection Info/Facility ID (as applicable): | YAT Pooled Upgradient |
| Time Zone Collected: | [ ] AK [ ] PT [ ] MT [ ] CT [X] ET |
| Contact/Report To: | Lauren Hartley |
| Phone #: | 470-620-6176 |
| E-Mail: | laucoker@southernco.com |
| Cc E-Mail: | Arcadis contacts |
| Invoice To: | |
| Invoice E-Mail: | |
| Purchase Order # (if applicable): | GPC82474-0002 |
| Quote #: | |
| County / State origin of sample(s): | Georgia |
| Data Deliverables: | [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other |
| Regulatory Program (DW, NCRA, etc.) as applicable: | |
| Rush (Pre-approval required): | [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other |
| Data Results Requested: | Standard TAT |
| DW PWSID # or WW Permit # as applicable: | |
| Field Filtered (if applicable): | [ ] Yes [X] No |
| Analysis: | |

Specify Containers Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500ml, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCL, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; Acctnum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Collected (or Composite Start) Time | Composite End Date | Composite End Time | Res. Cl2 | Number & Type of Containers: Plastic | Number & Type of Containers: Glass | App III/IV Metals + Na, K, Mg | Cl, F, SO4 (EPA 300.0) | TDS (SM 2540C) | RAD SW846 9315/8320 | Alkalinity (SM2320B) | Sample Comment | Preservation non-conformance identified for sample |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YAT-UGRD-EB-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-UGRD-FB-1 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-UGRD-EB-2 | WG | G | | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-UGRD-FB-2 | WG | G | 2/23/24 | | | | | 6 | | X | X | X | X | X | See Remarks | |
| YAT-UGRD-FD-1 | WG | G | 2/23/24 | | | | | 6 | | X | X | X | X | X | See Remarks 026 | |
| YAT-UGRD-FD-2 | WG | G | 2/23/24 | | | | | 6 | | X | X | X | X | X | See Remarks 027 | |

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) -
Signature: (Arcadis)

Additional Instructions from Pace®:
# Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C): Corrected Temp. (°C):

| | | | |
|---|---|---|---|
| Relinquished by/Company: (Signature) | Date/Time: 2/23/24 1230 | Received by/Company: (Signature) | Date/Time: 2/23/24 1230 |
| Relinquished by/Company: (Signature) | Date/Time: 2/24/24 1133 | Received by/Company: (Signature) | Date/Time: 2/24/24 1133 |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: |

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: 1 of 1

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# Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

| | |
|---|---|
| Test: | Ra-228 |
| Analyst: | VAL |
| Date: | 3/5/2024 |
| Worklist: | 77863 |
| Matrix: | WT |

***Analyst Must Manually Enter All Fields Highlighted in Yellow.***

| Method Blank Assessment | |
|---|---|
| MB Sample ID | 3173418 |
| MB concentration: | 0.370 |
| M/B 2 Sigma CSU: | 0.335 |
| MB MDC: | 0.678 |
| MB Numerical Performance Indicator: | 2.16 |
| MB Status vs Numerical Indicator: | Warning |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | LCSD (Y or N)? | Y |
|---|---|---|
| | LCS77863 | LCSD77863 |
| Count Date: | 3/11/2024 | 3/11/2024 |
| Spike I.D.: | 23-043 | 23-043 |
| Decay Corrected Spike Concentration (pCi/mL): | 37.542 | 37.542 |
| Volume Used (mL): | 0.10 | 0.10 |
| Aliquot Volume (L, g, F): | 0.820 | 0.820 |
| Target Conc. (pCi/L, g, F): | 4.576 | 4.580 |
| Uncertainty (Calculated): | 0.224 | 0.224 |
| Result (pCi/L, g, F): | 3.528 | 4.629 |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 0.823 | 1.029 |
| Numerical Performance Indicator: | -2.41 | 0.09 |
| Percent Recovery: | 77.10% | 101.07% |
| Status vs Numerical Indicator: | N/A | N/A |
| Status vs Recovery: | Pass | Pass |
| Upper % Recovery Limits: | 135% | 135% |
| Lower % Recovery Limits: | 60% | 60% |

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

| Duplicate Sample Assessment | | |
|---|---|---|
| Sample I.D.: | LCS77863 | Enter Duplicate sample IDs if other than LCS/LCSD in the space below. |
| Duplicate Sample I.D. | LCSD77863 | |
| Sample Result (pCi/L, g, F): | 3.528 | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 0.823 | |
| Sample Duplicate Result (pCi/L, g, F): | 4.629 | |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 1.029 | |
| Are sample and/or duplicate results below RL? | NO | |
| Duplicate Numerical Performance Indicator: | -1.638 | |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | 26.91% | |
| Duplicate Status vs Numerical Indicator: | Pass | |
| Duplicate Status vs RPD: | Pass | |
| % RPD Limit: | 36% | |

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

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

**Comments:**

ET 3-12-24

VAL 3/12/24

# Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

| | |
|---|---|
| Test: | Ra-228 |
| Analyst: | JJS1 |
| Date: | 3/5/2024 |
| Worklist: | 77864 |
| Matrix: | WT |

***Analyst Must Manually Enter All Fields Highlighted in Yellow.***

| Method Blank Assessment | |
|---|---|
| MB Sample ID | 3173423 |
| MB concentration: | 0.310 |
| M/B 2 Sigma CSU: | 0.405 |
| MB MDC: | 0.865 |
| MB Numerical Performance Indicator: | 1.50 |
| MB Status vs Numerical Indicator: | Pass |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | LCSD (Y or N)? | Y |
|---|---|---|
| | LCS77864 | LCSD77864 |
| Count Date: | 3/11/2024 | 1/0/1900 |
| Spike I.D.: | 23-043 | 23-043 |
| Decay Corrected Spike Concentration (pCi/mL): | 37.540 | 119275490.841 |
| Volume Used (mL): | 0.10 | 0.10 |
| Aliquot Volume (L, g, F): | 0.820 | 0.822 |
| Target Conc. (pCi/L, g, F): | 4.575 | 14511106.482 |
| Uncertainty (Calculated): | 0.224 | 711044.218 |
| Result (pCi/L, g, F): | 4.580 | #NUM! |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 1.069 | #NUM! |
| Numerical Performance Indicator: | 0.01 | #NUM! |
| Percent Recovery: | 100.11% | #NUM! |
| Status vs Numerical Indicator: | N/A | #NUM! |
| Status vs Recovery: | Pass | #NUM! |
| Upper % Recovery Limits: | 135% | #NUM! |
| Lower % Recovery Limits: | 60% | #NUM! |

| Duplicate Sample Assessment | | |
|---|---|---|
| Sample I.D.: | LCS77864 | Enter Duplicate sample IDs if other than LCS/LCSD in the space below. |
| Duplicate Sample I.D. | LCSD77864 | |
| Sample Result (pCi/L, g, F): | 4.580 | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 1.069 | |
| Sample Duplicate Result (pCi/L, g, F): | #NUM! | |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | #NUM! | |
| Are sample and/or duplicate results below RL? | NO | |
| Duplicate Numerical Performance Indicator: | #NUM! | |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | #NUM! | |
| Duplicate Status vs Numerical Indicator: | #NUM! | |
| Duplicate Status vs RPD: | #NUM! | |
| % RPD Limit: | #NUM! | |

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

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

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

**Comments:**

#NUM!
#NUM!

VAL
3/12/24

3/13/24

RE LCSD - pellet lost

# Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

| | |
|---|---|
| Test: | Ra-228 |
| Analyst: | ZPC |
| Date: | 3/7/2024 |
| Worklist: | 77962 |
| Matrix: | WT |

***Analyst Must Manually Enter All Fields Highlighted in Yellow.***

| Method Blank Assessment | |
|---|---|
| MB Sample ID | 3178917 |
| MB concentration: | -0.056 |
| M/B 2 Sigma CSU: | 0.345 |
| MB MDC: | 0.817 |
| MB Numerical Performance Indicator: | -0.32 |
| MB Status vs Numerical Indicator: | Pass |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | LCSD (Y or N)? | Y |
|---|---|---|
| | LCS77962 | LCSD77962 |
| Count Date: | 3/13/2024 | 3/13/2024 |
| Spike I.D.: | 23-043 | 23-043 |
| Decay Corrected Spike Concentration (pCi/mL): | 37.516 | 37.516 |
| Volume Used (mL): | 0.10 | 0.10 |
| Aliquot Volume (L, g, F): | 0.821 | 0.818 |
| Target Conc. (pCi/L, g, F): | 4.571 | 4.585 |
| Uncertainty (Calculated): | 0.224 | 0.225 |
| Result (pCi/L, g, F): | 4.202 | 4.563 |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 0.972 | 1.038 |
| Numerical Performance Indicator: | -0.72 | -0.04 |
| Percent Recovery: | 91.93% | 99.53% |
| Status vs Numerical Indicator: | N/A | N/A |
| Status vs Recovery: | Pass | Pass |
| Upper % Recovery Limits: | 135% | 135% |
| Lower % Recovery Limits: | 60% | 60% |

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

| Duplicate Sample Assessment | | |
|---|---|---|
| Sample I.D.: | LCS77962 | Enter Duplicate sample IDs if other than LCS/LCSD in the space below. |
| Duplicate Sample I.D. | LCSD77962 | |
| Sample Result (pCi/L, g, F): | 4.202 | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 0.972 | |
| Sample Duplicate Result (pCi/L, g, F): | 4.563 | |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 1.038 | |
| Are sample and/or duplicate results below RL? | NO | |
| Duplicate Numerical Performance Indicator: | -0.497 | |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | 7.94% | |
| Duplicate Status vs Numerical Indicator: | Pass | |
| Duplicate Status vs RPD: | Pass | |
| % RPD Limit: | 36% | |

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

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

**Comments:**

3/14/24

VAL
3/15/24

# Quality Control Sample Performance Assessment

Pace Analytical™
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| | |
|---|---|
| Test: | Ra-226 |
| Analyst: | SLC |
| Date: | 3/11/2024 |
| Worklist: | 77854 |
| Matrix: | DW |

***Analyst Must Manually Enter All Fields Highlighted in Yellow.***

| Method Blank Assessment | |
|---|---|
| MB Sample ID | 3172765 |
| MB concentration: | -0.018 |
| M/B Counting Uncertainty: | 0.070 |
| MB MDC: | 0.223 |
| MB Numerical Performance Indicator: | -0.49 |
| MB Status vs Numerical Indicator: | N/A |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | LCSD (Y or N)? | Y |
|---|---|---|
| | LCS77854 | LCSD77854 |
| Count Date: | 3/15/2024 | 3/15/2024 |
| Spike I.D.: | 23-014 | 23-014 |
| Decay Corrected Spike Concentration (pCi/mL): | 25.025 | 25.025 |
| Volume Used (mL): | 0.10 | 0.10 |
| Aliquot Volume (L, g, F): | 0.503 | 0.505 |
| Target Conc. (pCi/L, g, F): | 4.977 | 4.956 |
| Uncertainty (Calculated): | 0.234 | 0.233 |
| Result (pCi/L, g, F): | 4.774 | 4.671 |
| LCS/LCSD Counting Uncertainty (pCi/L, g, F): | 0.585 | 0.611 |
| Numerical Performance Indicator: | -0.63 | -0.86 |
| Percent Recovery: | 95.92% | 94.24% |
| Status vs Numerical Indicator: | N/A | N/A |
| Status vs Recovery: | Pass | Pass |
| Upper % Recovery Limits: | 125% | 125% |
| Lower % Recovery Limits: | 75% | 75% |

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

| Duplicate Sample Assessment | | |
|---|---|---|
| Sample I.D.: | LCS77854 | 92714724020 |
| Duplicate Sample I.D. | LCSD77854 | 92714724020DUP |
| Sample Result (pCi/L, g, F): | 4.774 | 0.135 |
| Sample Result Counting Uncertainty (pCi/L, g, F): | 0.585 | 0.129 |
| Sample Duplicate Result (pCi/L, g, F): | 4.671 | 0.408 |
| Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): | 0.611 | 0.204 |
| Are sample and/or duplicate results below RL? | NO | See Below ## |
| Duplicate Numerical Performance Indicator: | 0.239 | -2.215 |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | 1.78% | 100.46% |
| Duplicate Status vs Numerical Indicator: | N/A | N/A |
| Duplicate Status vs RPD: | Pass | Fail*** |
| % RPD Limit: | 25% | 25% |

| 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): | | |
| Duplicate Numerical Performance Indicator: | | |
| (Based on the Percent Recoveries) MS/ MSD Duplicate RPD: | | |
| MS/ MSD Duplicate Status vs Numerical Indicator: | | |
| MS/ MSD Duplicate Status vs RPD: | | |
| % RPD Limit: | | |

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

TJD 3/15/24

**Comments:**

~~***Batch must be re-prepped due to unacceptable precision.~~ NA JJT 3-15-24

3/15/24

# Quality Control Sample Performance Assessment

Pace Analytical™
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| | |
|---|---|
| Test: | Ra-226 |
| Analyst: | SLC |
| Date: | 3/8/2024 |
| Worklist: | 77855 |
| Matrix: | WT |

***Analyst Must Manually Enter All Fields Highlighted in Yellow.***

| Method Blank Assessment | |
|---|---|
| MB Sample ID | 3172766 |
| MB concentration: | 0.014 |
| M/B 2 Sigma CSU: | 0.137 |
| MB MDC: | 0.359 |
| MB Numerical Performance Indicator: | 0.19 |
| MB Status vs Numerical Indicator: | Pass |
| MB Status vs. MDC: | N/A |

| Laboratory Control Sample Assessment | LCSD (Y or N)? | Y |
|---|---|---|
| | LCS77855 | LCSD77855 |
| Count Date: | 3/11/2024 | 3/11/2024 |
| Spike I.D.: | 23-014 | 23-014 |
| Decay Corrected Spike Concentration (pCi/mL): | 25.025 | 25.025 |
| Volume Used (mL): | 0.10 | 0.10 |
| Aliquot Volume (L, g, F): | 0.503 | 0.503 |
| Target Conc. (pCi/L, g, F): | 4.974 | 4.978 |
| Uncertainty (Calculated): | 0.234 | 0.234 |
| Result (pCi/L, g, F): | 4.446 | 4.338 |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 0.883 | 0.869 |
| Numerical Performance Indicator: | -1.13 | -1.39 |
| Percent Recovery: | 89.38% | 87.15% |
| Status vs Numerical Indicator: | Pass | Pass |
| Status vs Recovery: | N/A | N/A |
| Upper % Recovery Limits: | 125% | 125% |
| Lower % Recovery Limits: | 75% | 75% |

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

| Duplicate Sample Assessment | | |
|---|---|---|
| Sample I.D.: | LCS77855 | 92714725002 |
| Duplicate Sample I.D. | LCSD77855 | 92714725002DUP |
| Sample Result (pCi/L, g, F): | 4.446 | 0.039 |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 0.883 | 0.133 |
| Sample Duplicate Result (pCi/L, g, F): | 4.338 | 0.033 |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 0.869 | 0.130 |
| Are sample and/or duplicate results below RL? | NO | See Below ## |
| Duplicate Numerical Performance Indicator: | 0.170 | 0.069 |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | 2.52% | 18.09% |
| Duplicate Status vs Numerical Indicator: | Pass | Pass |
| Duplicate Status vs RPD: | N/A | N/A |
| % RPD Limit: | 25% | 25% |

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

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

**Comments:**

CT 3-12-24

WAM 3/11/24

# Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

| | |
|---|---|
| Test: | Ra-226 |
| Analyst: | SLC |
| Date: | 3/12/2024 |
| Worklist: | 77994 |
| Matrix: | WT |

***Analyst Must Manually Enter All Fields Highlighted in Yellow.***

| Method Blank Assessment | |
|---|---|
| MB Sample ID | 3180680 |
| MB concentration: | -0.053 |
| M/B 2 Sigma CSU: | 0.080 |
| MB MDC: | 0.258 |
| MB Numerical Performance Indicator: | -1.31 |
| MB Status vs Numerical Indicator: | Pass |
| MB Status vs. MDC: | N/A |

| Laboratory Control Sample Assessment | LCSD (Y or N)? | Y |
|---|---|---|
| | LCS77994 | LCSD77994 |
| Count Date: | 3/18/2024 | 3/18/2024 |
| Spike I.D.: | 23-014 | 23-014 |
| Decay Corrected Spike Concentration (pCi/mL): | 25.025 | 25.025 |
| Volume Used (mL): | 0.10 | 0.10 |
| Aliquot Volume (L, g, F): | 0.509 | 0.506 |
| Target Conc. (pCi/L, g, F): | 4.913 | 4.945 |
| Uncertainty (Calculated): | 0.231 | 0.232 |
| Result (pCi/L, g, F): | 4.894 | 5.111 |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 0.898 | 0.955 |
| Numerical Performance Indicator: | -0.04 | 0.33 |
| Percent Recovery: | 99.62% | 103.35% |
| Status vs Numerical Indicator: | Pass | Pass |
| Status vs Recovery: | N/A | N/A |
| Upper % Recovery Limits: | 125% | 125% |
| Lower % Recovery Limits: | 75% | 75% |

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

| Duplicate Sample Assessment | | |
|---|---|---|
| Sample I.D.: | LCS77994 | 92714724027 |
| Duplicate Sample I.D. | LCSD77994 | 92714724027DUP |
| Sample Result (pCi/L, g, F): | 4.894 | 0.021 |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 0.898 | 0.077 |
| Sample Duplicate Result (pCi/L, g, F): | 5.111 | 0.020 |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 0.955 | 0.073 |
| Are sample and/or duplicate results below RL? | NO | See Below ## |
| Duplicate Numerical Performance Indicator: | -0.324 | 0.006 |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | 3.68% | 1.57% |
| Duplicate Status vs Numerical Indicator: | Pass | Pass |
| Duplicate Status vs RPD: | N/A | N/A |
| % RPD Limit: | 25% | 25% |

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

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

**Comments:**

CT 3-18-24

LAM 3/18/24

# Appendix D

## Statistical Analysis (February 2024)

**Appendix III Statistically Significant Increase Summary (February 2024)**

| Appendix III Parameter | Monitoring Wells |
|---|---|
| Boron | YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29IB |
| Chloride | YGWC-26I, YGWC-26S, YGWC-27I, YGWC-28S |

GROUNDWATER STATS CONSULTING

August 30, 2024

Southern Company Services
Attn: Ms. Lauren Hartley
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Yates Ash Pond 2 (AP-2)
February 2024 Statistical Analysis

Dear Ms. Hartley,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2024 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates AP-2. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for the Appendix III parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

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

- **Upgradient wells:**
  - **AP-1:** YGWA-47
  - **AP-2:** YGWA-1D, YGWA-1I, YGWA-2I, YGWA-3D, YGWA-3I, YGWA-14S, and YGWA-30I
  - **Gypsum Landfill:** GWA-2
  - **AMA-R6:** YGWA-17S, YGWA-18I, YGWA-18S, YGWA-20S, YGWA-21I, YGWA-39, YGWA-40, YGWA-4I, YGWA-5D, and YGWA-5I
- **Downgradient wells:** YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, and YGWC-29IB

Note that well YGWC-29IB was installed as a replacement well for YGWC-29IA and was first sampled in February 2024. Data from downgradient wells YGWC-29IA and YGWC-29IB were combined and are plotted under well YGWC-29IB. In the current analysis, reported observations from the February 2024 sample event for Appendix III constituents at all downgradient wells are compared to interwell prediction limits for Appendix III constituents.

When a minimum of 8 samples are collected from new well YGWC-29IB, the Mann-Whitney test of medians will be used to evaluate whether the medians are similar to those from previously installed well YGWC-29IA. When the medians are statistically different for Appendix IV constituents at the 99% confidence level, the historical record will be truncated so that only data from new well YGWC-29IB in order to be more representative of present-day groundwater quality, and will be evaluated with confidence intervals compared to respective Groundwater Protection Standards.

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician 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 well/constituent pairs containing 100% non-detects follows this letter.

Combined upgradient well data from all units at Plant Yates are utilized to construct statistical limits for Appendix III and IV parameters.

For all constituents, a substitution of the most recent reporting limit is used for non-detect data and this generally gives the most conservative limit in each case. 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. During this event, elevated reporting limits occurred for beryllium, boron, and lithium due to higher dilution factors at some wells; therefore, current reporting limits of 0.0005 mg/L, 0.04 mg/L, and 0.03 mg/L were substituted across all wells for each respective constituent.

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

**Summary of Statistical Methods – Appendix III and IV Parameters:**

Based on the background screening performed in 2017 and state and federal regulatory requirements described below, the following methods were selected for Appendix III and IV constituents:

- Appendix III: Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV: Confidence intervals for antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as

applicable) are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric prediction limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric prediction limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The following approaches are used for handling non-detects (USEPA, 2009):

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

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

**Summary of Background Update – Appendix III and IV Constituents - Conducted in March 2020**

Outlier Analysis

The original background screening was conducted in 2017 by MacStat Consulting. Values identified as outliers were flagged in the database and excluded prior to construction of statistical limits. Interwell prediction limits, combined with a 1-of-2 resample plan, were

recommended. During the March 2020 1st semi-annual analysis, data were screened for the purpose of updating the statistical limits as described below.

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

Using the Tukey box plot method, a couple outliers were identified. While this is not the case in the present data set, when the most recent value is identified as an outlier, values are not flagged in the database at this time as they may represent a possible trend. If future values do not remain at similar concentrations, these values may be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

Only one of the outliers identified by Tukey's method (combined radium 226 + 228 in downgradient well YGWC-26I) was flagged in the database as all other values were either similar to remaining measurements within the same well and neighboring wells, or the values were reported non-detects. When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages will display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data. When the reporting limit was higher than the CCR-rule specified levels discussed below, non-detects were substituted with one half the reporting limit. A summary of outlier results follows this letter (Figure C).

Seasonality

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

Trend Test Evaluation

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall test was used to evaluate all data at upgradient wells for Appendix III parameters and all wells for Appendix IV parameters to identify statistically significant increasing or decreasing. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses for the Appendix III and IV parameters showed statistically significant decreasing trends for a handful of constituents and statistically significant increasing trends for calcium, cobalt, combined radium 226 + 228, and sulfate. Most of the trends noted were relatively low in magnitude when compared to average concentrations, and the background time period is short with only three years of record, making it difficult to separate trends from normal year-to-year variation; therefore, no adjustments were made to the data sets. If the observed decreasing or increasing trends persist over a longer time frame, some records may need to be truncated.

**Statistical Analysis of Appendix III Parameters – February 2024**

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed for potential outliers during this analysis. During this analysis, the February 2024 reported measurement in upgradient well YGWA-5D was flagged for TDS in order to maintain a statistical limit that is more conservative from a regulatory perspective and representative of present-day groundwater quality conditions. Pooled upgradient well data for all Appendix III constituents did not follow a normal or transformed-normal distribution; therefore, nonparametric prediction limits were constructed. A summary of flagged outliers follows this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical pooled upgradient well data through February 2024 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an

individual constituent. The February 2024 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase (SSI) is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Prediction limit exceedances were noted for the following Appendix III well/constituent pairs:

- Boron: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, and YGWC-29IB
- Chloride: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, and YGWC-28S

Trend Test Evaluation – Appendix III

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 at the 99% confidence level (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 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: YGWA-39 (upgradient) and YGWC-26S
- Chloride: GWA-2, YGWA-17S, YGWA-18I, YGWA-20S, YGWA-39, and YGWA-40 (all upgradient)

Decreasing:

- Boron: YGWA-40 (upgradient), YGWC-26I, and YGWC-27S
- Chloride: YGWA-3D, YGWA-47, YGWA-5D (all upgradient), YGWC-26I, YGWC-26S, YGWC-27S, and YGWC-28S

A complete list of trend test results and all statistically significant increasing and decreasing trends may be found following this letter in the Trend Test Summary Table.

**Statistical Analysis of Appendix IV Parameters – February 2024**

For analysis of Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis.

The reported measurements of cobalt from August 2020 through August 2022 in upgradient well GWA-2 were previously flagged as outliers as these measurements were two orders of magnitude higher than remaining measurements at this well. This step results in statistical limits that are conservative (i.e., lower) from a regulatory perspective. If further studies indicate these measurements represent variation in groundwater quality, the values will be re-evaluated for construction of interwell prediction limits. No additional values were flagged as outliers and a summary of flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through February 2024 for Appendix IV constituents (Figure F). Parametric tolerance limits are calculated, with a target of 95% confidence and 95% coverage, 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 constructed using the highest background measurement. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals using data through February 2024 were constructed for each of the Appendix IV constituents in each downgradient well with 4 or more samples (Figure H). As mentioned above, confidence intervals were not required for downgradient well/constituent pairs containing 100% non-detects since 2016.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals, either parametric or nonparametric, depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the appropriate order statistics, depending on the sample size, as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The achievable confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Summaries of the confidence interval results, along with graphical comparison against GWPS follow this letter. No exceedances were identified.

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable. Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence level is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. Since no exceedances were identified, no trend tests were required.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Yates AP-2. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Andrew T. Collins
Project Manager

Kristina L. Rayner
Senior Statistician

Sanitas™ v.10.0.16e Software licensed to . UG

# 100% Non-Detects: Appendix IV Downgradient

Analysis Run 5/2/2024 10:06 AM View: Appendix IV
Plant Yates Data: Yates Ash Pond 2

Antimony (mg/L)
YGWC-28S

Beryllium (mg/L)
YGWC-26I, YGWC-28I, YGWC-28S, YGWC-29IB

Cadmium (mg/L)
YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S

Cobalt (mg/L)
YGWC-26I

Lead (mg/L)
YGWC-27I, YGWC-28I

Lithium (mg/L)
YGWC-26S

Molybdenum (mg/L)
YGWC-26I, YGWC-26S, YGWC-27S

Selenium (mg/L)
YGWC-27I, YGWC-27S, YGWC-29IB

Thallium (mg/L)
YGWC-26I, YGWC-27I, YGWC-28I, YGWC-28S

# Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 9:57 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boron (mg/L) | YGWC-26I | 0.16 | n/a | 2/22/2024 | 0.77 | Yes | 407 | n/a | n/a | 51.35 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-26S | 0.16 | n/a | 2/22/2024 | 0.78 | Yes | 407 | n/a | n/a | 51.35 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-27I | 0.16 | n/a | 2/21/2024 | 1.8 | Yes | 407 | n/a | n/a | 51.35 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-27S | 0.16 | n/a | 2/21/2024 | 0.91 | Yes | 407 | n/a | n/a | 51.35 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-28I | 0.16 | n/a | 2/21/2024 | 1.6 | Yes | 407 | n/a | n/a | 51.35 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-28S | 0.16 | n/a | 2/21/2024 | 2.3 | Yes | 407 | n/a | n/a | 51.35 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-29IB | 0.16 | n/a | 2/22/2024 | 1.1 | Yes | 407 | n/a | n/a | 51.35 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| Chloride (mg/L) | YGWC-26I | 12.2 | n/a | 2/22/2024 | 16 | Yes | 407 | n/a | n/a | 0 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-26S | 12.2 | n/a | 2/22/2024 | 14.9 | Yes | 407 | n/a | n/a | 0 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-27I | 12.2 | n/a | 2/21/2024 | 12.5 | Yes | 407 | n/a | n/a | 0 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-27S | 12.2 | n/a | 2/21/2024 | 12.6 | Yes | 407 | n/a | n/a | 0 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-28S | 12.2 | n/a | 2/21/2024 | 17.5 | Yes | 407 | n/a | n/a | 0 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |

# Appendix III Interwell Prediction Limits - All Results

Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 9:57 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Boron (mg/L)** | **YGWC-26I** | **0.16** | **n/a** | **2/22/2024** | **0.77** | **Yes** | **407** | **n/a** | **n/a** | **51.35** | **n/a** | **n/a** | **0.00004918** | **NP Inter (NDs) 1 of 2** |
| **Boron (mg/L)** | **YGWC-26S** | **0.16** | **n/a** | **2/22/2024** | **0.78** | **Yes** | **407** | **n/a** | **n/a** | **51.35** | **n/a** | **n/a** | **0.00004918** | **NP Inter (NDs) 1 of 2** |
| **Boron (mg/L)** | **YGWC-27I** | **0.16** | **n/a** | **2/21/2024** | **1.8** | **Yes** | **407** | **n/a** | **n/a** | **51.35** | **n/a** | **n/a** | **0.00004918** | **NP Inter (NDs) 1 of 2** |
| **Boron (mg/L)** | **YGWC-27S** | **0.16** | **n/a** | **2/21/2024** | **0.91** | **Yes** | **407** | **n/a** | **n/a** | **51.35** | **n/a** | **n/a** | **0.00004918** | **NP Inter (NDs) 1 of 2** |
| **Boron (mg/L)** | **YGWC-28I** | **0.16** | **n/a** | **2/21/2024** | **1.6** | **Yes** | **407** | **n/a** | **n/a** | **51.35** | **n/a** | **n/a** | **0.00004918** | **NP Inter (NDs) 1 of 2** |
| **Boron (mg/L)** | **YGWC-28S** | **0.16** | **n/a** | **2/21/2024** | **2.3** | **Yes** | **407** | **n/a** | **n/a** | **51.35** | **n/a** | **n/a** | **0.00004918** | **NP Inter (NDs) 1 of 2** |
| **Boron (mg/L)** | **YGWC-29IB** | **0.16** | **n/a** | **2/22/2024** | **1.1** | **Yes** | **407** | **n/a** | **n/a** | **51.35** | **n/a** | **n/a** | **0.00004918** | **NP Inter (NDs) 1 of 2** |
| Calcium (mg/L) | YGWC-26I | 37 | n/a | 2/22/2024 | 16.7 | No | 407 | n/a | n/a | 0.7371 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | YGWC-26S | 37 | n/a | 2/22/2024 | 11 | No | 407 | n/a | n/a | 0.7371 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | YGWC-27I | 37 | n/a | 2/21/2024 | 27.7 | No | 407 | n/a | n/a | 0.7371 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | YGWC-27S | 37 | n/a | 2/21/2024 | 20.4 | No | 407 | n/a | n/a | 0.7371 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | YGWC-28I | 37 | n/a | 2/21/2024 | 27.8 | No | 407 | n/a | n/a | 0.7371 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | YGWC-28S | 37 | n/a | 2/21/2024 | 31 | No | 407 | n/a | n/a | 0.7371 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | YGWC-29IB | 37 | n/a | 2/22/2024 | 11.5 | No | 407 | n/a | n/a | 0.7371 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| **Chloride (mg/L)** | **YGWC-26I** | **12.2** | **n/a** | **2/22/2024** | **16** | **Yes** | **407** | **n/a** | **n/a** | **0** | **n/a** | **n/a** | **0.00004918** | **NP Inter (normality) 1 of 2** |
| **Chloride (mg/L)** | **YGWC-26S** | **12.2** | **n/a** | **2/22/2024** | **14.9** | **Yes** | **407** | **n/a** | **n/a** | **0** | **n/a** | **n/a** | **0.00004918** | **NP Inter (normality) 1 of 2** |
| **Chloride (mg/L)** | **YGWC-27I** | **12.2** | **n/a** | **2/21/2024** | **12.5** | **Yes** | **407** | **n/a** | **n/a** | **0** | **n/a** | **n/a** | **0.00004918** | **NP Inter (normality) 1 of 2** |
| **Chloride (mg/L)** | **YGWC-27S** | **12.2** | **n/a** | **2/21/2024** | **12.6** | **Yes** | **407** | **n/a** | **n/a** | **0** | **n/a** | **n/a** | **0.00004918** | **NP Inter (normality) 1 of 2** |
| Chloride (mg/L) | YGWC-28I | 12.2 | n/a | 2/21/2024 | 10.4 | No | 407 | n/a | n/a | 0 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| **Chloride (mg/L)** | **YGWC-28S** | **12.2** | **n/a** | **2/21/2024** | **17.5** | **Yes** | **407** | **n/a** | **n/a** | **0** | **n/a** | **n/a** | **0.00004918** | **NP Inter (normality) 1 of 2** |
| Chloride (mg/L) | YGWC-29IB | 12.2 | n/a | 2/22/2024 | 10.5 | No | 407 | n/a | n/a | 0 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | YGWC-26I | 0.68 | n/a | 2/22/2024 | 0.057J | No | 476 | n/a | n/a | 63.45 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | YGWC-26S | 0.68 | n/a | 2/22/2024 | 0.1ND | No | 476 | n/a | n/a | 63.45 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | YGWC-27I | 0.68 | n/a | 2/21/2024 | 0.082J | No | 476 | n/a | n/a | 63.45 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | YGWC-27S | 0.68 | n/a | 2/21/2024 | 0.11 | No | 476 | n/a | n/a | 63.45 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | YGWC-28I | 0.68 | n/a | 2/21/2024 | 0.096J | No | 476 | n/a | n/a | 63.45 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | YGWC-28S | 0.68 | n/a | 2/21/2024 | 0.15 | No | 476 | n/a | n/a | 63.45 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | YGWC-29IB | 0.68 | n/a | 2/22/2024 | 0.075J | No | 476 | n/a | n/a | 63.45 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| pH (S.U.) | YGWC-26I | 8.39 | 4.4 | 2/22/2024 | 5.92 | No | 486 | n/a | n/a | 0 | n/a | n/a | 0.00009836 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | YGWC-26S | 8.39 | 4.4 | 2/22/2024 | 5.58 | No | 486 | n/a | n/a | 0 | n/a | n/a | 0.00009836 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | YGWC-27I | 8.39 | 4.4 | 2/21/2024 | 6.43 | No | 486 | n/a | n/a | 0 | n/a | n/a | 0.00009836 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | YGWC-27S | 8.39 | 4.4 | 2/21/2024 | 6.26 | No | 486 | n/a | n/a | 0 | n/a | n/a | 0.00009836 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | YGWC-28I | 8.39 | 4.4 | 2/21/2024 | 6.43 | No | 486 | n/a | n/a | 0 | n/a | n/a | 0.00009836 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | YGWC-28S | 8.39 | 4.4 | 2/21/2024 | 6.49 | No | 486 | n/a | n/a | 0 | n/a | n/a | 0.00009836 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | YGWC-29IB | 8.39 | 4.4 | 2/22/2024 | 6.01 | No | 486 | n/a | n/a | 0 | n/a | n/a | 0.00009836 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | YGWC-26I | 160 | n/a | 2/22/2024 | 80.7 | No | 407 | n/a | n/a | 6.143 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | YGWC-26S | 160 | n/a | 2/22/2024 | 89.3 | No | 407 | n/a | n/a | 6.143 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | YGWC-27I | 160 | n/a | 2/21/2024 | 3.8 | No | 407 | n/a | n/a | 6.143 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | YGWC-27S | 160 | n/a | 2/21/2024 | 13 | No | 407 | n/a | n/a | 6.143 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | YGWC-28I | 160 | n/a | 2/21/2024 | 8.5 | No | 407 | n/a | n/a | 6.143 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | YGWC-28S | 160 | n/a | 2/21/2024 | 3.9 | No | 407 | n/a | n/a | 6.143 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | YGWC-29IB | 160 | n/a | 2/22/2024 | 26.9 | No | 407 | n/a | n/a | 6.143 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-26I | 319 | n/a | 2/22/2024 | 215 | No | 406 | n/a | n/a | 0.4926 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-26S | 319 | n/a | 2/22/2024 | 188 | No | 406 | n/a | n/a | 0.4926 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-27I | 319 | n/a | 2/21/2024 | 194 | No | 406 | n/a | n/a | 0.4926 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-27S | 319 | n/a | 2/21/2024 | 149 | No | 406 | n/a | n/a | 0.4926 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-28I | 319 | n/a | 2/21/2024 | 213 | No | 406 | n/a | n/a | 0.4926 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-28S | 319 | n/a | 2/21/2024 | 235 | No | 406 | n/a | n/a | 0.4926 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-29IB | 319 | n/a | 2/22/2024 | 146 | No | 406 | n/a | n/a | 0.4926 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |

# Appendix III Trend Tests - Significant Results

Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 9:59 AM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Alpha | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| Boron (mg/L) | YGWC-26I | -0.03677 | -123 | -92 | Yes | 22 | 0 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWC-26S | 0.01731 | 102 | 92 | Yes | 22 | 0 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWC-27S | -0.06015 | -111 | -92 | Yes | 22 | 0 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-39 (bg) | 0.01889 | 102 | 74 | Yes | 19 | 5.263 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-40 (bg) | -0.01292 | -120 | -74 | Yes | 19 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWA-3D (bg) | -0.0365 | -113 | -92 | Yes | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWC-26I | -0.3595 | -121 | -92 | Yes | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWC-26S | -0.3619 | -106 | -92 | Yes | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWC-27S | -1.464 | -179 | -92 | Yes | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWC-28S | -0.2879 | -93 | -92 | Yes | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWA-47 (bg) | -0.3666 | -125 | -74 | Yes | 19 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWA-17S (bg) | 0.7862 | 183 | 92 | Yes | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWA-18I (bg) | 0.09154 | 113 | 92 | Yes | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWA-20S (bg) | 0.09892 | 145 | 92 | Yes | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWA-39 (bg) | 0.6099 | 76 | 74 | Yes | 19 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWA-40 (bg) | 0.2696 | 101 | 74 | Yes | 19 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWA-5D (bg) | -0.5923 | -176 | -92 | Yes | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | GWA-2 (bg) | 0.2946 | 117 | 81 | Yes | 20 | 0 | n/a | 0.01 | NP |

# Appendix III Trend Tests - All Results

Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 9:59 AM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Alpha | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| Boron (mg/L) | YGWA-14S (bg) | -0.0002056 | -33 | -92 | No | 22 | 9.091 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-1D (bg) | 0.001069 | 59 | 92 | No | 22 | 40.91 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-1I (bg) | 0 | -22 | -92 | No | 22 | 68.18 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-2I (bg) | 0 | 6 | 92 | No | 22 | 81.82 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-30I (bg) | 0 | -10 | -92 | No | 22 | 86.36 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-3D (bg) | 0 | 24 | 92 | No | 22 | 63.64 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-3I (bg) | 0 | -11 | -92 | No | 22 | 90.91 | n/a | 0.01 | NP |
| **Boron (mg/L)** | **YGWC-26I** | **-0.03677** | **-123** | **-92** | **Yes** | **22** | **0** | **n/a** | **0.01** | **NP** |
| **Boron (mg/L)** | **YGWC-26S** | **0.01731** | **102** | **92** | **Yes** | **22** | **0** | **n/a** | **0.01** | **NP** |
| Boron (mg/L) | YGWC-27I | 0.03489 | 49 | 92 | No | 22 | 0 | n/a | 0.01 | NP |
| **Boron (mg/L)** | **YGWC-27S** | **-0.06015** | **-111** | **-92** | **Yes** | **22** | **0** | **n/a** | **0.01** | **NP** |
| Boron (mg/L) | YGWC-28I | -0.08449 | -76 | -92 | No | 22 | 0 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWC-28S | -0.0293 | -40 | -92 | No | 22 | 0 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-47 (bg) | -0.0003761 | -34 | -74 | No | 19 | 5.263 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-17S (bg) | 0.0005659 | 73 | 92 | No | 22 | 18.18 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-18I (bg) | 0 | -10 | -92 | No | 22 | 81.82 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-18S (bg) | 0.0008073 | 63 | 92 | No | 22 | 27.27 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-20S (bg) | 0 | -3 | -92 | No | 22 | 90.91 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-21I (bg) | 0 | -21 | -92 | No | 22 | 59.09 | n/a | 0.01 | NP |
| **Boron (mg/L)** | **YGWA-39 (bg)** | **0.01889** | **102** | **74** | **Yes** | **19** | **5.263** | **n/a** | **0.01** | **NP** |
| **Boron (mg/L)** | **YGWA-40 (bg)** | **-0.01292** | **-120** | **-74** | **Yes** | **19** | **0** | **n/a** | **0.01** | **NP** |
| Boron (mg/L) | YGWA-4I (bg) | 0 | 19 | 92 | No | 22 | 72.73 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-5D (bg) | 0.000669 | 82 | 92 | No | 22 | 22.73 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-5I (bg) | 0 | -4 | -92 | No | 22 | 68.18 | n/a | 0.01 | NP |
| Boron (mg/L) | GWA-2 (bg) | 0 | 26 | 81 | No | 20 | 65 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWC-29IB | -0.01629 | -63 | -92 | No | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWA-14S (bg) | 0.09834 | 63 | 92 | No | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWA-1D (bg) | 0 | -38 | -92 | No | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWA-1I (bg) | -0.01344 | -44 | -92 | No | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWA-2I (bg) | -0.01682 | -50 | -92 | No | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWA-30I (bg) | -0.02485 | -61 | -92 | No | 22 | 0 | n/a | 0.01 | NP |
| **Chloride (mg/L)** | **YGWA-3D (bg)** | **-0.0365** | **-113** | **-92** | **Yes** | **22** | **0** | **n/a** | **0.01** | **NP** |
| Chloride (mg/L) | YGWA-3I (bg) | -0.01926 | -86 | -92 | No | 22 | 0 | n/a | 0.01 | NP |
| **Chloride (mg/L)** | **YGWC-26I** | **-0.3595** | **-121** | **-92** | **Yes** | **22** | **0** | **n/a** | **0.01** | **NP** |
| **Chloride (mg/L)** | **YGWC-26S** | **-0.3619** | **-106** | **-92** | **Yes** | **22** | **0** | **n/a** | **0.01** | **NP** |
| Chloride (mg/L) | YGWC-27I | -0.06268 | -61 | -92 | No | 22 | 0 | n/a | 0.01 | NP |
| **Chloride (mg/L)** | **YGWC-27S** | **-1.464** | **-179** | **-92** | **Yes** | **22** | **0** | **n/a** | **0.01** | **NP** |
| **Chloride (mg/L)** | **YGWC-28S** | **-0.2879** | **-93** | **-92** | **Yes** | **22** | **0** | **n/a** | **0.01** | **NP** |
| **Chloride (mg/L)** | **YGWA-47 (bg)** | **-0.3666** | **-125** | **-74** | **Yes** | **19** | **0** | **n/a** | **0.01** | **NP** |
| **Chloride (mg/L)** | **YGWA-17S (bg)** | **0.7862** | **183** | **92** | **Yes** | **22** | **0** | **n/a** | **0.01** | **NP** |
| **Chloride (mg/L)** | **YGWA-18I (bg)** | **0.09154** | **113** | **92** | **Yes** | **22** | **0** | **n/a** | **0.01** | **NP** |
| Chloride (mg/L) | YGWA-18S (bg) | 0.08677 | 60 | 92 | No | 22 | 0 | n/a | 0.01 | NP |
| **Chloride (mg/L)** | **YGWA-20S (bg)** | **0.09892** | **145** | **92** | **Yes** | **22** | **0** | **n/a** | **0.01** | **NP** |
| Chloride (mg/L) | YGWA-21I (bg) | -0.06772 | -59 | -92 | No | 22 | 0 | n/a | 0.01 | NP |
| **Chloride (mg/L)** | **YGWA-39 (bg)** | **0.6099** | **76** | **74** | **Yes** | **19** | **0** | **n/a** | **0.01** | **NP** |
| **Chloride (mg/L)** | **YGWA-40 (bg)** | **0.2696** | **101** | **74** | **Yes** | **19** | **0** | **n/a** | **0.01** | **NP** |
| Chloride (mg/L) | YGWA-4I (bg) | 0.06138 | 75 | 92 | No | 22 | 0 | n/a | 0.01 | NP |
| **Chloride (mg/L)** | **YGWA-5D (bg)** | **-0.5923** | **-176** | **-92** | **Yes** | **22** | **0** | **n/a** | **0.01** | **NP** |
| Chloride (mg/L) | YGWA-5I (bg) | 0.01601 | 22 | 92 | No | 22 | 0 | n/a | 0.01 | NP |
| **Chloride (mg/L)** | **GWA-2 (bg)** | **0.2946** | **117** | **81** | **Yes** | **20** | **0** | **n/a** | **0.01** | **NP** |

# Upper Tolerance Limits Summary Table

Plant Yates  Data: Yates Ash Pond 2  Printed 5/2/2024, 10:03 AM

| Constituent | Upper Lim. | Lower Lim. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony (mg/L) | 0.0047 | n/a | 429 | n/a | n/a | 87.88 | n/a | n/a | NaN | NP Inter(NDs) |
| Arsenic (mg/L) | 0.005 | n/a | 477 | n/a | n/a | 75.26 | n/a | n/a | NaN | NP Inter(NDs) |
| Barium (mg/L) | 0.21 | n/a | 477 | n/a | n/a | 2.306 | n/a | n/a | NaN | NP Inter(normality) |
| Beryllium (mg/L) | 0.0011 | n/a | 461 | n/a | n/a | 80.04 | n/a | n/a | NaN | NP Inter(NDs) |
| Cadmium (mg/L) | 0.00063 | n/a | 461 | n/a | n/a | 95.01 | n/a | n/a | NaN | NP Inter(NDs) |
| Chromium (mg/L) | 0.0093 | n/a | 429 | n/a | n/a | 81.59 | n/a | n/a | NaN | NP Inter(NDs) |
| Cobalt (mg/L) | 0.035 | n/a | 471 | n/a | n/a | 68.79 | n/a | n/a | NaN | NP Inter(NDs) |
| Combined Radium 226 + 228 (pCi/L) | 6.92 | n/a | 456 | n/a | n/a | 0 | n/a | n/a | NaN | NP Inter(normality) |
| Fluoride (mg/L) | 0.68 | n/a | 476 | n/a | n/a | 63.45 | n/a | n/a | NaN | NP Inter(NDs) |
| Lead (mg/L) | 0.0013 | n/a | 431 | n/a | n/a | 87.24 | n/a | n/a | NaN | NP Inter(NDs) |
| Lithium (mg/L) | 0.03 | n/a | 456 | n/a | n/a | 27.19 | n/a | n/a | NaN | NP Inter(normality) |
| Mercury (mg/L) | 0.00064 | n/a | 385 | n/a | n/a | 89.35 | n/a | n/a | NaN | NP Inter(NDs) |
| Molybdenum (mg/L) | 0.03 | n/a | 420 | n/a | n/a | 61.19 | n/a | n/a | NaN | NP Inter(NDs) |
| Selenium (mg/L) | 0.005 | n/a | 459 | n/a | n/a | 92.81 | n/a | n/a | NaN | NP Inter(NDs) |
| Thallium (mg/L) | 0.001 | n/a | 395 | n/a | n/a | 97.47 | n/a | n/a | NaN | NP Inter(NDs) |

| YATES ASH POND 2 GWPS | | | | |
|---|---|---|---|---|
| **Constituent Name** | **MCL** | **CCR-Rule Specified** | **Background Limit** | **GWPS** |
| Antimony, Total (mg/L) | 0.006 | | 0.0047 | 0.006 |
| Arsenic, Total (mg/L) | 0.01 | | 0.005 | 0.01 |
| Barium, Total (mg/L) | 2 | | 0.21 | 2 |
| Beryllium, Total (mg/L) | 0.004 | | 0.0011 | 0.004 |
| Cadmium, Total (mg/L) | 0.005 | | 0.00063 | 0.005 |
| Chromium, Total (mg/L) | 0.1 | | 0.0093 | 0.1 |
| Cobalt, Total (mg/L) | | 0.006 | 0.035 | 0.035 |
| Combined Radium, Total (pCi/L) | 5 | | 6.92 | 6.92 |
| Fluoride, Total (mg/L) | 4 | | 0.68 | 4 |
| Lead, Total (mg/L) | | 0.015 | 0.0013 | 0.015 |
| Lithium, Total (mg/L) | | 0.04 | 0.03 | 0.04 |
| Mercury, Total (mg/L) | 0.002 | | 0.00064 | 0.002 |
| Molybdenum, Total (mg/L) | | 0.1 | 0.03 | 0.1 |
| Selenium, Total (mg/L) | 0.05 | | 0.005 | 0.05 |
| Thallium, Total (mg/L) | 0.002 | | 0.001 | 0.002 |

**Grey cell indicates Background Limit is higher than MCL or CCR Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

# Confidence Intervals Summary Table - All Results (No Significant)

Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 10:09 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony (mg/L) | YGWC-26I | 0.003 | 0.001 | 0.006 | No | 21 | 0.002672 | 0.0008276 | 85.71 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | YGWC-26S | 0.003 | 0.0017 | 0.006 | No | 21 | 0.002871 | 0.0004064 | 90.48 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | YGWC-27I | 0.003 | 0.0014 | 0.006 | No | 21 | 0.002797 | 0.0006641 | 90.48 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | YGWC-27S | 0.003 | 0.0003 | 0.006 | No | 21 | 0.002871 | 0.0005892 | 95.24 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | YGWC-28I | 0.003 | 0.0023 | 0.006 | No | 21 | 0.002967 | 0.0001528 | 95.24 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | YGWC-29IB | 0.003 | 0.0013 | 0.006 | No | 21 | 0.002919 | 0.000371 | 95.24 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | YGWC-26I | 0.005 | 0.0028 | 0.01 | No | 25 | 0.004808 | 0.000667 | 92 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | YGWC-26S | 0.005 | 0.0032 | 0.01 | No | 25 | 0.004816 | 0.000653 | 92 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | YGWC-27I | 0.005 | 0.0009 | 0.01 | No | 25 | 0.003578 | 0.002042 | 64 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | YGWC-27S | 0.005 | 0.0019 | 0.01 | No | 25 | 0.004876 | 0.00062 | 96 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | YGWC-28I | 0.005 | 0.0021 | 0.01 | No | 25 | 0.004884 | 0.00058 | 96 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | YGWC-28S | 0.005 | 0.00075 | 0.01 | No | 25 | 0.003588 | 0.002038 | 64 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | YGWC-29IB | 0.005 | 0.0033 | 0.01 | No | 25 | 0.004932 | 0.00034 | 96 | None | No | 0.01 | NP (NDs) |
| Barium (mg/L) | YGWC-26I | 0.06523 | 0.06157 | 2 | No | 25 | 0.0634 | 0.003673 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | YGWC-26S | 0.0283 | 0.02609 | 2 | No | 25 | 0.0272 | 0.002211 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | YGWC-27I | 0.07395 | 0.0664 | 2 | No | 25 | 0.07018 | 0.007568 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | YGWC-27S | 0.1001 | 0.08167 | 2 | No | 25 | 0.08901 | 0.02093 | 0 | None | x^2 | 0.01 | Param. |
| Barium (mg/L) | YGWC-28I | 0.08777 | 0.0788 | 2 | No | 25 | 0.08328 | 0.009001 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | YGWC-28S | 0.2199 | 0.1984 | 2 | No | 25 | 0.2052 | 0.03448 | 0 | None | x^3 | 0.01 | Param. |
| Barium (mg/L) | YGWC-29IB | 0.0781 | 0.057 | 2 | No | 25 | 0.07435 | 0.03089 | 0 | None | No | 0.01 | NP (normality) |
| Beryllium (mg/L) | YGWC-26S | 0.0001278 | 0.00009104 | 0.004 | No | 23 | 0.0002001 | 0.0001474 | 17.39 | Kaplan-Meier | ln(x) | 0.01 | Param. |
| Beryllium (mg/L) | YGWC-27I | 0.0002007 | 0.0001403 | 0.004 | No | 23 | 0.0001705 | 0.00005775 | 13.04 | None | No | 0.01 | Param. |
| Beryllium (mg/L) | YGWC-27S | 0.0005 | 0.00011 | 0.004 | No | 23 | 0.0004642 | 0.0001189 | 91.3 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | YGWC-28I | 0.0005 | 0.0001 | 0.005 | No | 23 | 0.0002774 | 0.0001781 | 21.74 | None | No | 0.01 | NP (normality) |
| Cadmium (mg/L) | YGWC-28S | 0.0005 | 0.00048 | 0.005 | No | 23 | 0.0004991 | 0.00000417 | 95.65 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | YGWC-29IB | 0.00028 | 0.00018 | 0.005 | No | 23 | 0.0003396 | 0.0003656 | 13.04 | None | No | 0.01 | NP (normality) |
| Chromium (mg/L) | YGWC-26I | 0.005 | 0.0008 | 0.1 | No | 23 | 0.003671 | 0.002046 | 65.22 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | YGWC-26S | 0.005 | 0.0012 | 0.1 | No | 23 | 0.003 | 0.00182 | 34.78 | None | No | 0.01 | NP (normality) |
| Chromium (mg/L) | YGWC-27I | 0.012 | 0.005 | 0.1 | No | 23 | 0.005304 | 0.00146 | 95.65 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | YGWC-27S | 0.005 | 0.0041 | 0.1 | No | 23 | 0.004715 | 0.002727 | 73.91 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | YGWC-28I | 0.005 | 0.0005 | 0.1 | No | 23 | 0.004409 | 0.00156 | 86.96 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | YGWC-28S | 0.005 | 0.0034 | 0.1 | No | 23 | 0.004347 | 0.001548 | 82.61 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | YGWC-29IB | 0.005 | 0.0005 | 0.1 | No | 23 | 0.004804 | 0.0009383 | 95.65 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | YGWC-26S | 0.002433 | 0.001813 | 0.035 | No | 25 | 0.002123 | 0.0006217 | 4 | None | No | 0.01 | Param. |
| Cobalt (mg/L) | YGWC-27I | 0.01376 | 0.004019 | 0.035 | No | 25 | 0.01616 | 0.02373 | 0 | None | ln(x) | 0.01 | Param. |
| Cobalt (mg/L) | YGWC-27S | 0.002404 | 0.002041 | 0.035 | No | 25 | 0.002196 | 0.0003953 | 4 | None | x^2 | 0.01 | Param. |
| Cobalt (mg/L) | YGWC-28I | 0.005 | 0.00042 | 0.035 | No | 25 | 0.004817 | 0.000916 | 96 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | YGWC-28S | 0.0011 | 0.00085 | 0.035 | No | 25 | 0.001077 | 0.0004546 | 8 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | YGWC-29IB | 0.005 | 0.0027 | 0.035 | No | 25 | 0.004126 | 0.001906 | 68 | None | No | 0.01 | NP (NDs) |
| Combined Radium 226 + 228 (pCi/L) | YGWC-26I | 0.9944 | 0.5008 | 6.92 | No | 24 | 0.7476 | 0.4837 | 4.167 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-26S | 0.8032 | 0.5276 | 6.92 | No | 25 | 0.6654 | 0.2765 | 4 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-27I | 3.746 | 2.625 | 6.92 | No | 25 | 3.186 | 1.125 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-27S | 0.9619 | 0.6006 | 6.92 | No | 25 | 0.7813 | 0.3624 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-28I | 0.7995 | 0.4593 | 6.92 | No | 25 | 0.6294 | 0.3413 | 4 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-28S | 0.8999 | 0.543 | 6.92 | No | 25 | 0.7214 | 0.358 | 4 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-29IB | 1.065 | 0.6817 | 6.92 | No | 25 | 0.8731 | 0.384 | 4 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | YGWC-26I | 0.1 | 0.064 | 4 | No | 26 | 0.08269 | 0.01978 | 38.46 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | YGWC-26S | 0.16 | 0.076 | 4 | No | 26 | 0.1219 | 0.08942 | 65.38 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | YGWC-27I | 0.3 | 0.081 | 4 | No | 26 | 0.1829 | 0.1128 | 46.15 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | YGWC-27S | 0.1594 | 0.09053 | 4 | No | 26 | 0.1505 | 0.09453 | 15.38 | Kaplan-Meier | ln(x) | 0.01 | Param. |
| Fluoride (mg/L) | YGWC-28I | 0.29 | 0.078 | 4 | No | 26 | 0.159 | 0.1012 | 19.23 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | YGWC-28S | 0.2349 | 0.1581 | 4 | No | 26 | 0.2023 | 0.08725 | 7.692 | None | sqrt(x) | 0.01 | Param. |
| Fluoride (mg/L) | YGWC-29IB | 0.17 | 0.059 | 4 | No | 26 | 0.1384 | 0.1037 | 26.92 | None | No | 0.01 | NP (normality) |
| Lead (mg/L) | YGWC-26I | 0.001 | 0.000059 | 0.015 | No | 21 | 0.00091 | 0.0002843 | 90.48 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | YGWC-26S | 0.001 | 0.0001 | 0.015 | No | 21 | 0.0007786 | 0.000406 | 76.19 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | YGWC-27S | 0.001 | 0.00072 | 0.015 | No | 21 | 0.0008284 | 0.0003329 | 71.43 | None | No | 0.01 | NP (NDs) |

# Confidence Intervals Summary Table - All Results (No Significant)



Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 10:09 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead (mg/L) | YGWC-28S | 0.001 | 0.000075 | 0.015 | No | 21 | 0.0007769 | 0.0004091 | 76.19 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | YGWC-29IB | 0.001 | 0.00016 | 0.015 | No | 21 | 0.0008724 | 0.0003206 | 85.71 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | YGWC-26I | 0.007374 | 0.006746 | 0.04 | No | 25 | 0.00706 | 0.0006305 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | YGWC-27I | 0.009528 | 0.007614 | 0.04 | No | 25 | 0.008648 | 0.002002 | 0 | None | sqrt(x) | 0.01 | Param. |
| Lithium (mg/L) | YGWC-27S | 0.03 | 0.0013 | 0.04 | No | 25 | 0.02768 | 0.008015 | 92 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | YGWC-28I | 0.007012 | 0.006532 | 0.04 | No | 25 | 0.006772 | 0.0004818 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | YGWC-28S | 0.03 | 0.0053 | 0.04 | No | 25 | 0.02901 | 0.00494 | 96 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | YGWC-29IB | 0.0066 | 0.0053 | 0.04 | No | 25 | 0.00678 | 0.002629 | 4 | None | No | 0.01 | NP (normality) |
| Mercury (mg/L) | YGWC-26I | 0.0002 | 0.000051 | 0.002 | No | 19 | 0.0001843 | 0.00004698 | 89.47 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | YGWC-26S | 0.0002 | 0.000066 | 0.002 | No | 19 | 0.000185 | 0.00004502 | 89.47 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | YGWC-27I | 0.0002 | 0.000054 | 0.002 | No | 19 | 0.0001842 | 0.00004748 | 89.47 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | YGWC-27S | 0.0002 | 0.00019 | 0.002 | No | 19 | 0.0001832 | 0.00004876 | 84.21 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | YGWC-28I | 0.0002 | 0.000048 | 0.002 | No | 19 | 0.000192 | 0.00003487 | 94.74 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | YGWC-28S | 0.0002 | 0.000052 | 0.002 | No | 19 | 0.0001922 | 0.00003395 | 94.74 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | YGWC-29IB | 0.0002 | 0.000047 | 0.002 | No | 19 | 0.0001835 | 0.00004952 | 89.47 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | YGWC-27I | 0.01 | 0.0015 | 0.1 | No | 25 | 0.00502 | 0.004187 | 40 | None | No | 0.01 | NP (normality) |
| Molybdenum (mg/L) | YGWC-28I | 0.01 | 0.0012 | 0.1 | No | 25 | 0.004408 | 0.004283 | 36 | None | No | 0.01 | NP (normality) |
| Molybdenum (mg/L) | YGWC-28S | 0.01 | 0.00082 | 0.1 | No | 25 | 0.007039 | 0.004405 | 68 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | YGWC-29IB | 0.01 | 0.00099 | 0.1 | No | 25 | 0.009273 | 0.002517 | 92 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | YGWC-26I | 0.003234 | 0.002153 | 0.05 | No | 23 | 0.002843 | 0.001158 | 8.696 | None | ln(x) | 0.01 | Param. |
| Selenium (mg/L) | YGWC-26S | 0.005 | 0.0014 | 0.05 | No | 23 | 0.004317 | 0.001533 | 82.61 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | YGWC-28I | 0.005 | 0.0012 | 0.05 | No | 23 | 0.004835 | 0.0007924 | 95.65 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | YGWC-28S | 0.005 | 0.001 | 0.05 | No | 23 | 0.004826 | 0.0008341 | 95.65 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | YGWC-26S | 0.001 | 0.000057 | 0.002 | No | 19 | 0.0009006 | 0.0002976 | 89.47 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | YGWC-27S | 0.001 | 0.00011 | 0.002 | No | 19 | 0.0007174 | 0.0004274 | 68.42 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | YGWC-29IB | 0.001 | 0.00021 | 0.002 | No | 19 | 0.0009584 | 0.0001812 | 94.74 | None | No | 0.01 | NP (NDs) |

# FIGURE A.

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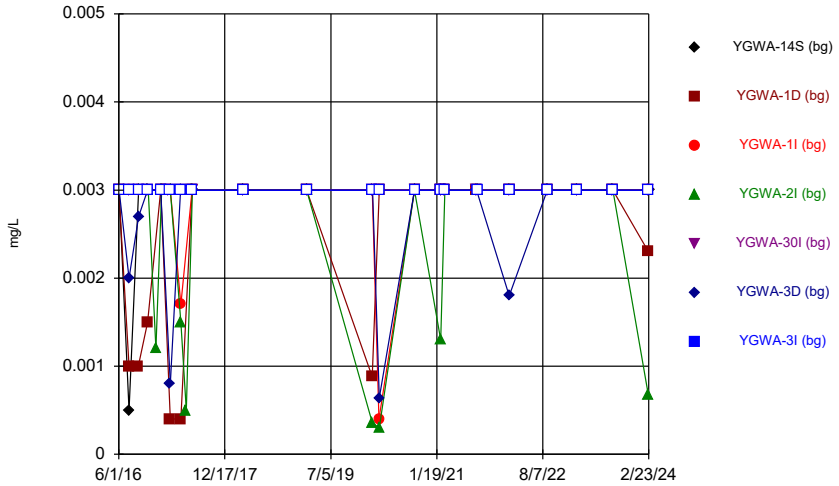
Hollow symbols indicate censored values.

## Time Series




Constituent: Antimony Analysis Run 5/2/2024 9:45 AM
Plant Yates Data: Yates Ash Pond 2

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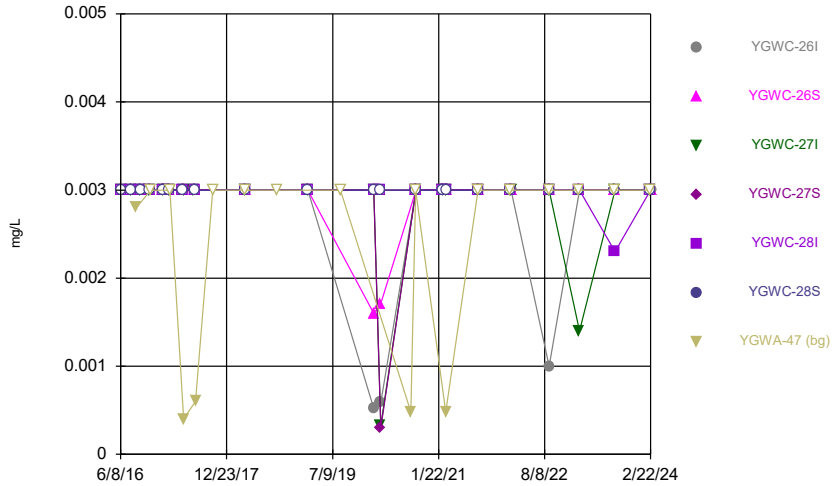
## Time Series




Constituent: Antimony Analysis Run 5/2/2024 9:45 AM
Plant Yates Data: Yates Ash Pond 2

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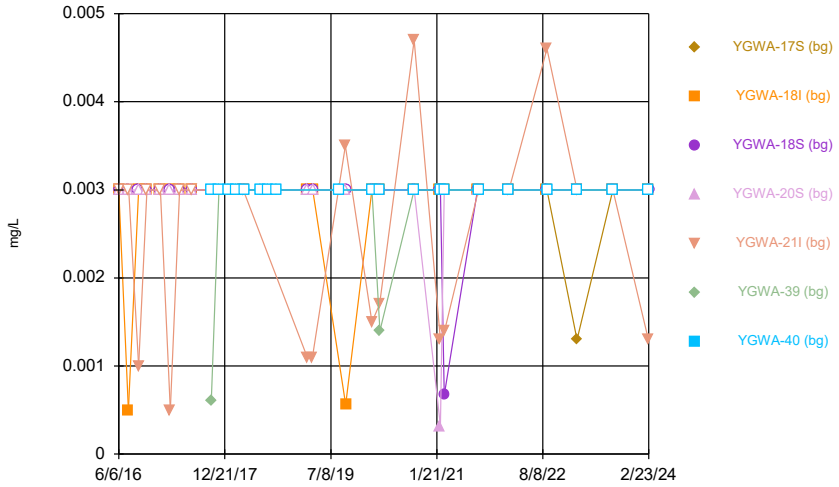
Hollow symbols indicate censored values.

## Time Series




Constituent: Antimony Analysis Run 5/2/2024 9:45 AM
Plant Yates Data: Yates Ash Pond 2

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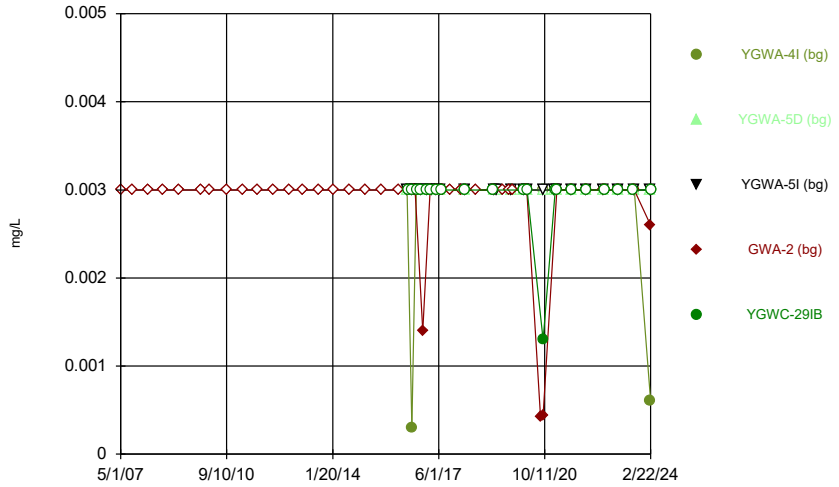
Hollow symbols indicate censored values.

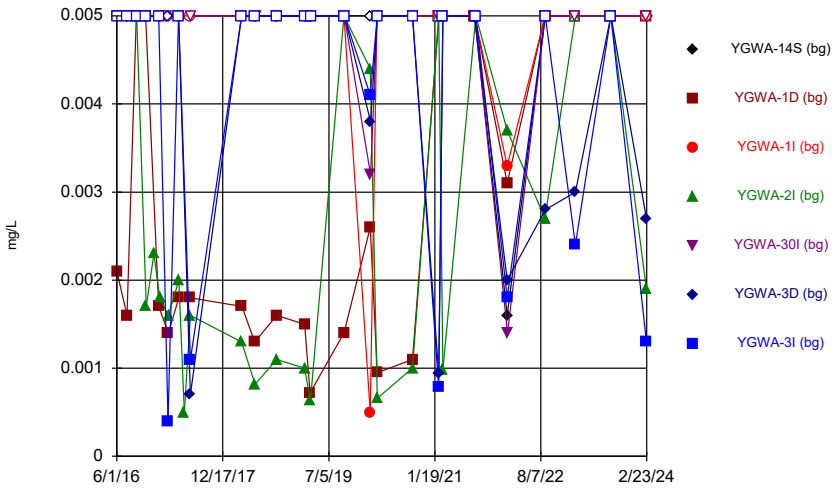
## Time Series




Constituent: Antimony Analysis Run 5/2/2024 9:45 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

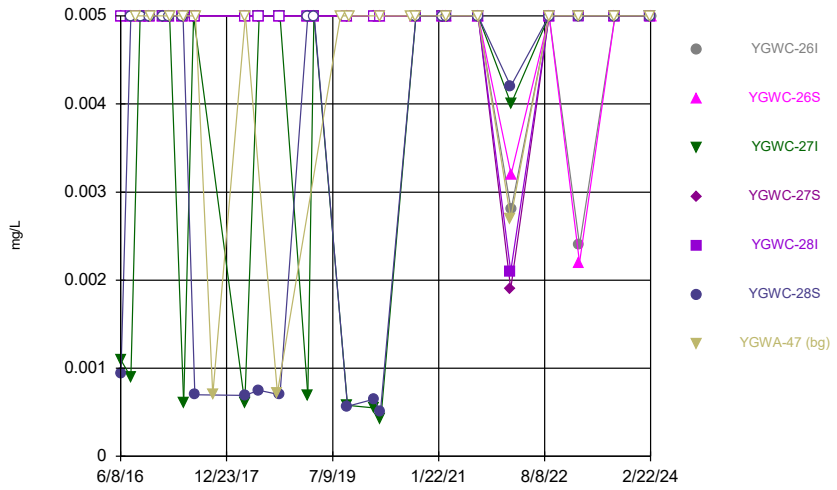
## Time Series




Constituent: Arsenic Analysis Run 5/2/2024 9:45 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

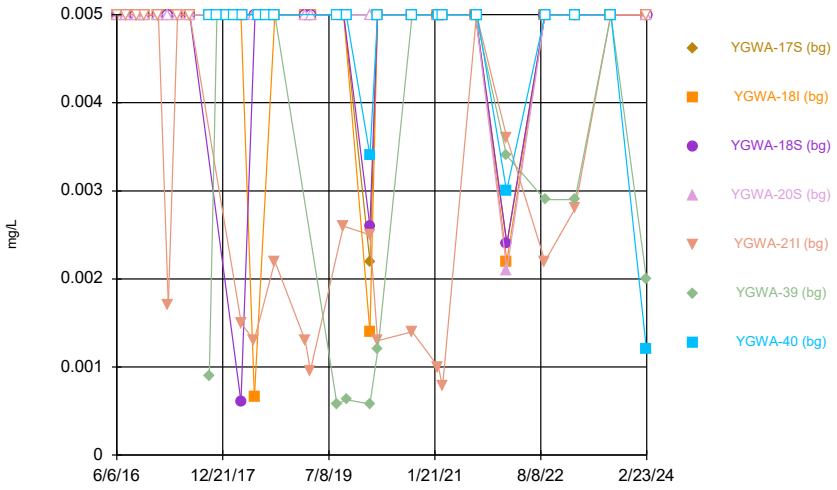
## Time Series




Constituent: Arsenic Analysis Run 5/2/2024 9:45 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

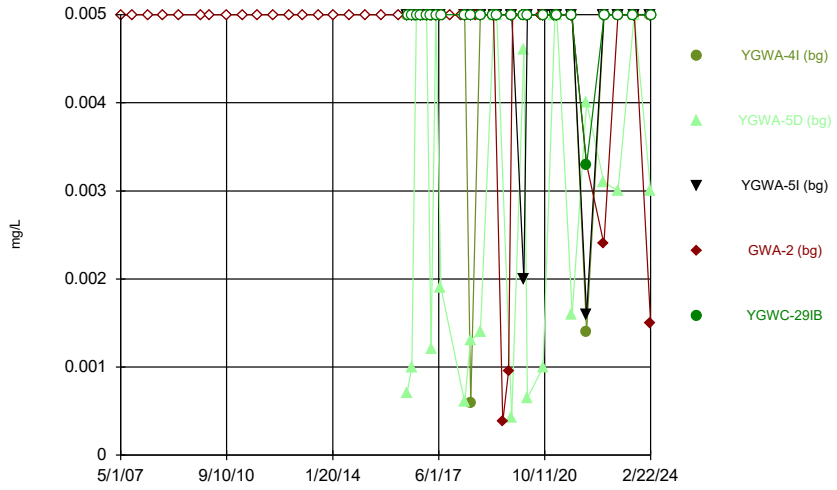
## Time Series




Constituent: Arsenic Analysis Run 5/2/2024 9:45 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

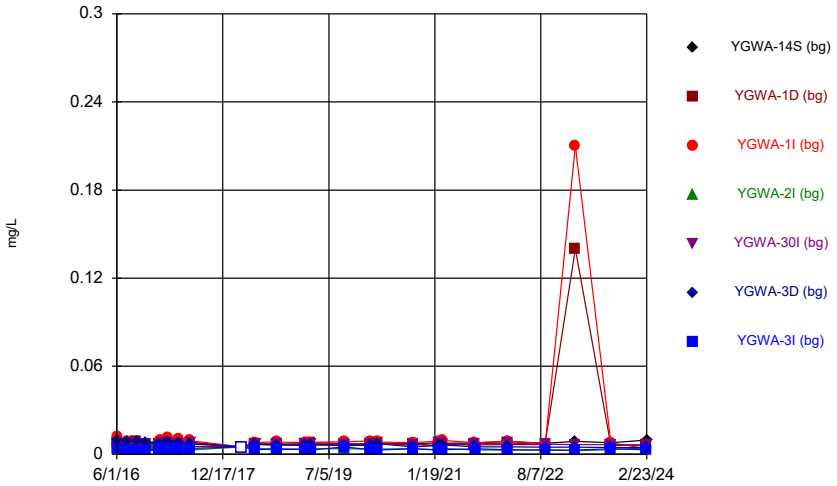
## Time Series




Constituent: Arsenic Analysis Run 5/2/2024 9:45 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

## Time Series

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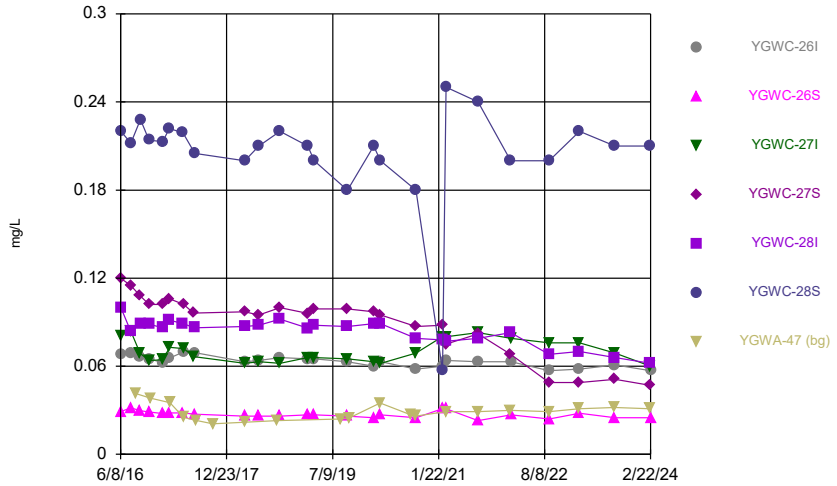
Sanitas™ v.10.0.16e Software licensed to . UG

## Time Series




Constituent: Barium Analysis Run 5/2/2024 9:45 AM
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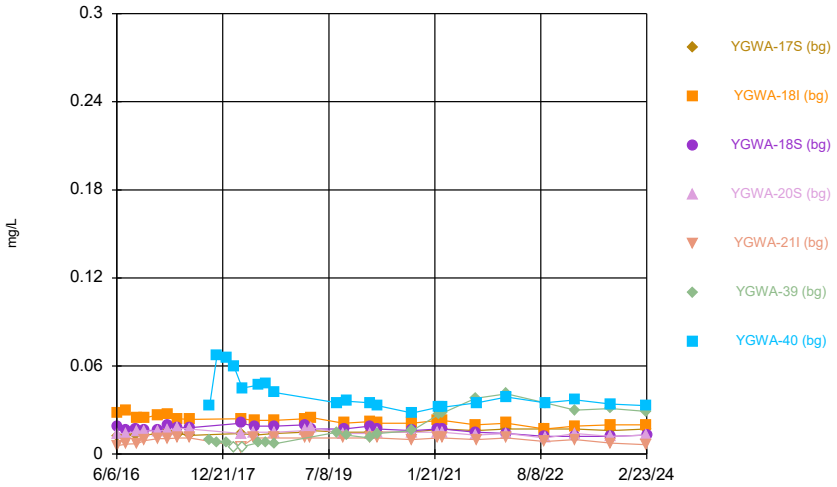
Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

## Time Series

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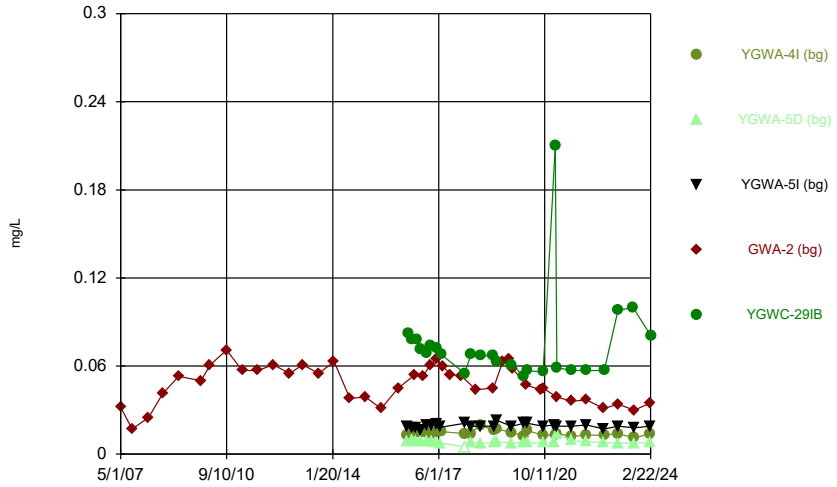
Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

## Time Series

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Sanitas™ v.10.0.16e Software licensed to . UG
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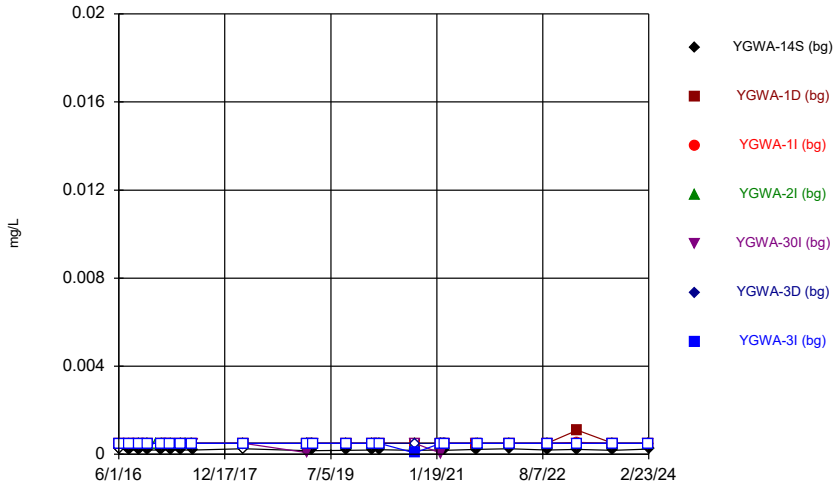


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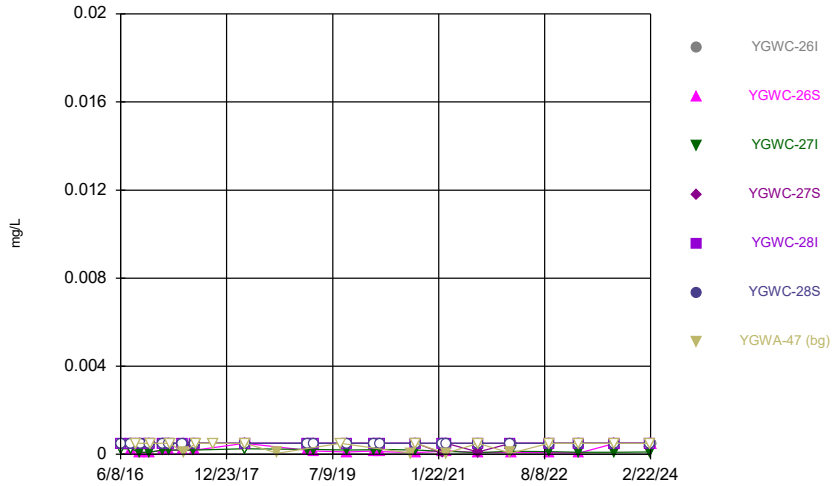
Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

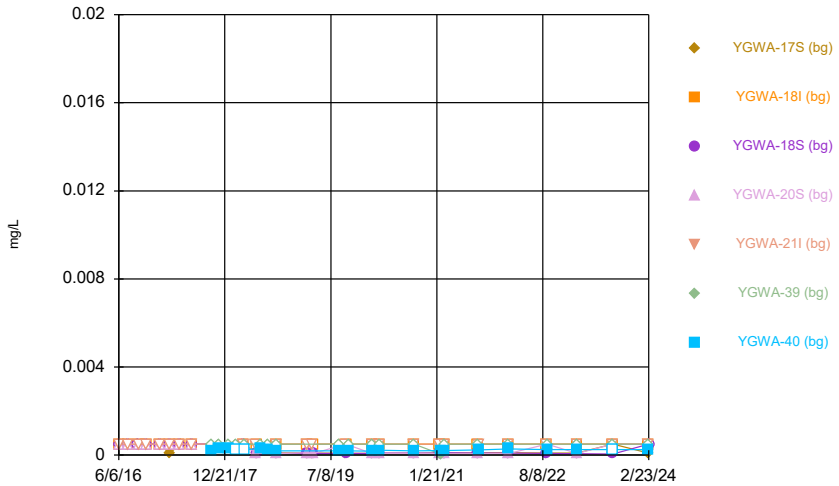
## Time Series




Constituent: Beryllium Analysis Run 5/2/2024 9:45 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

## Time Series

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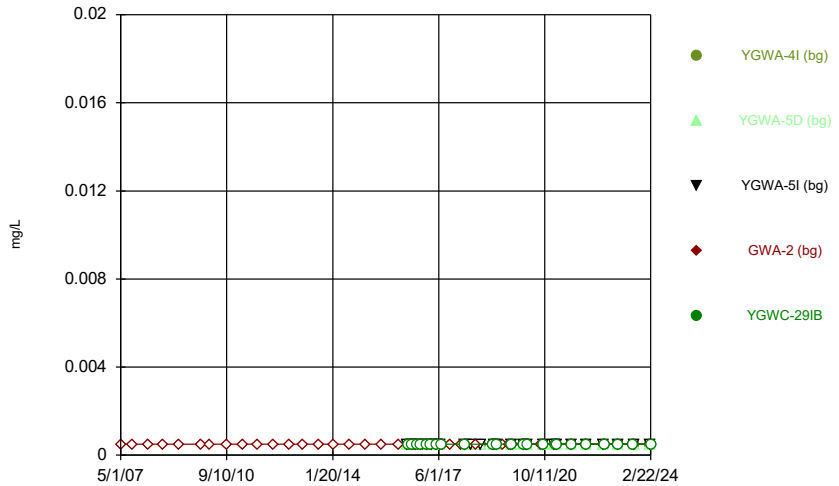
Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Beryllium Analysis Run 5/2/2024 9:45 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
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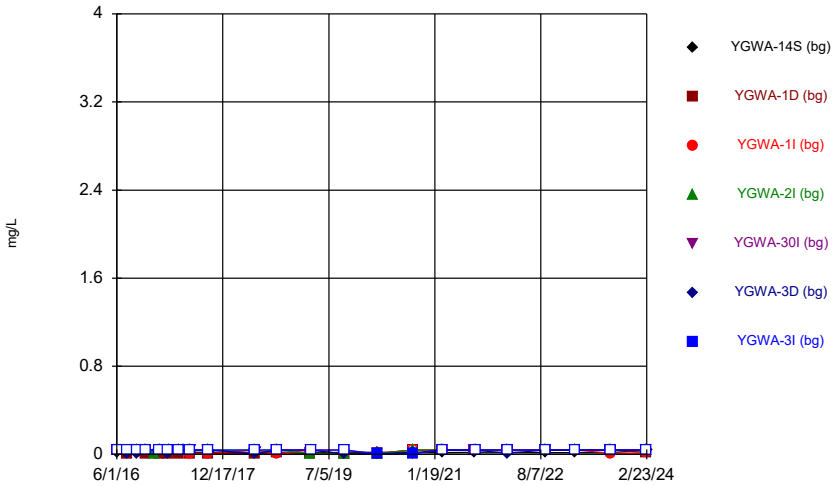
## Time Series




Constituent: Boron Analysis Run 5/2/2024 9:45 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
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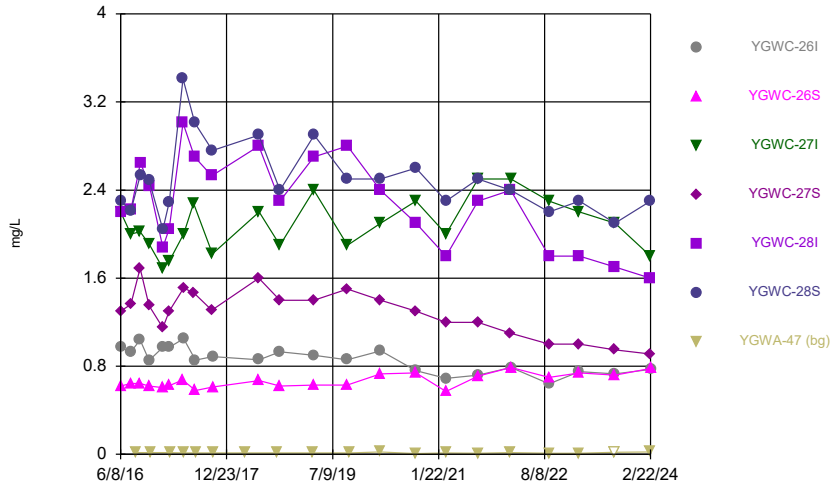
## Time Series




Constituent: Boron Analysis Run 5/2/2024 9:45 AM
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Sanitas™ v.10.0.16e Software licensed to . UG
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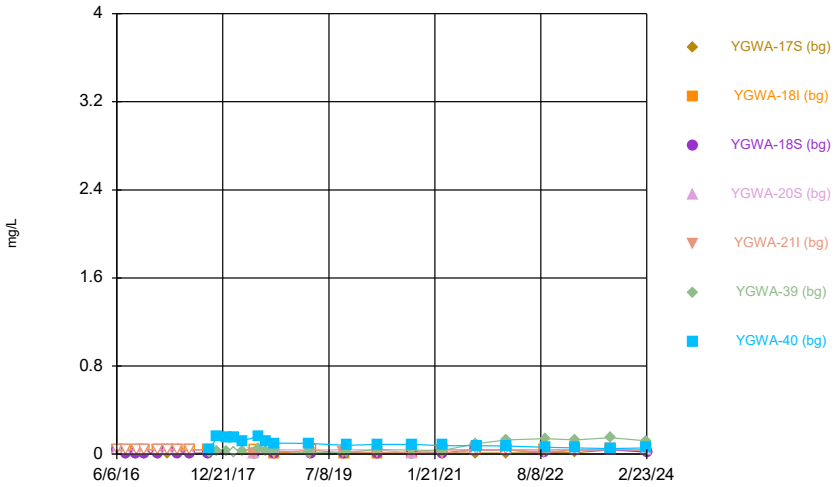
## Time Series




Constituent: Boron Analysis Run 5/2/2024 9:45 AM
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Sanitas™ v.10.0.16e Software licensed to . UG
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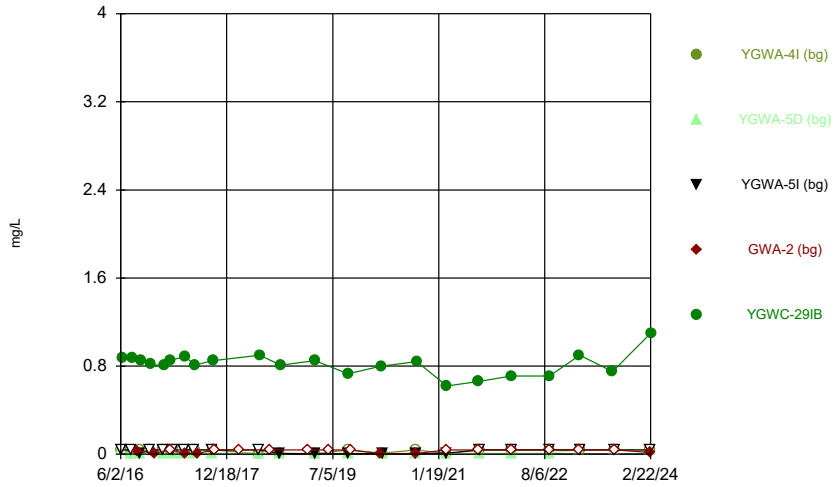
## Time Series




Constituent: Boron Analysis Run 5/2/2024 9:45 AM
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Sanitas™ v.10.0.16e Software licensed to . UG
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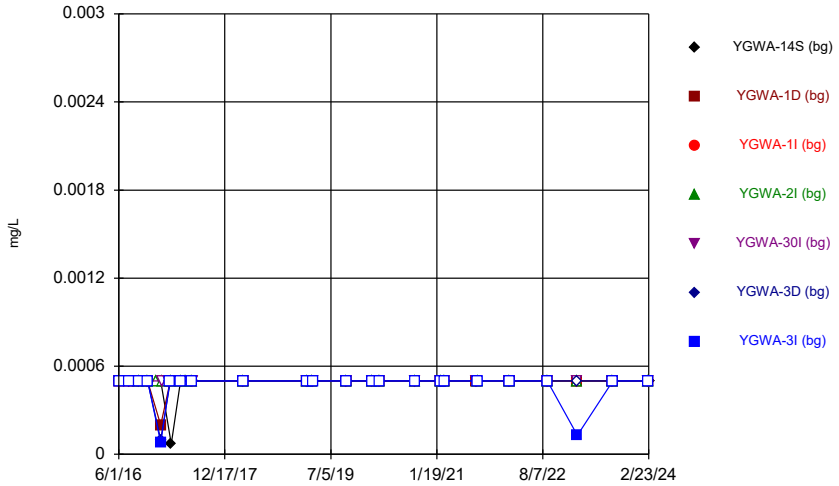
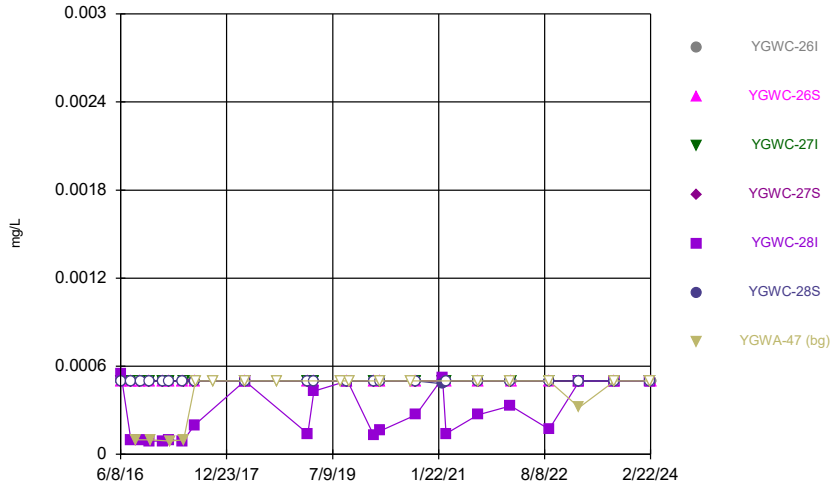
## Time Series




Constituent: Cadmium Analysis Run 5/2/2024 9:45 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Cadmium Analysis Run 5/2/2024 9:45 AM
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Sanitas™ v.10.0.16e Software licensed to . UG
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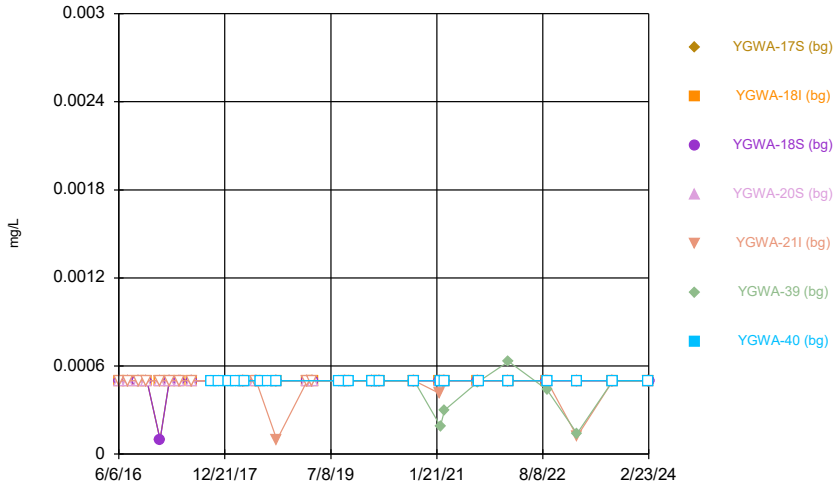
## Time Series




Constituent: Cadmium Analysis Run 5/2/2024 9:45 AM
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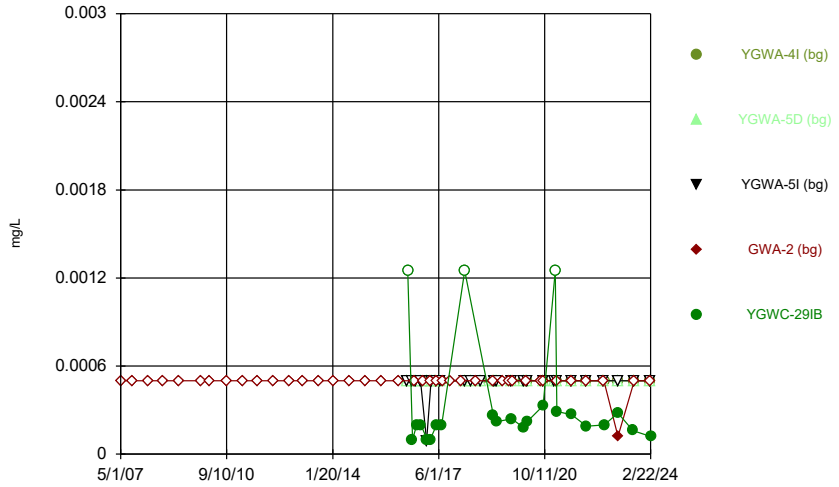
Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

## Time Series

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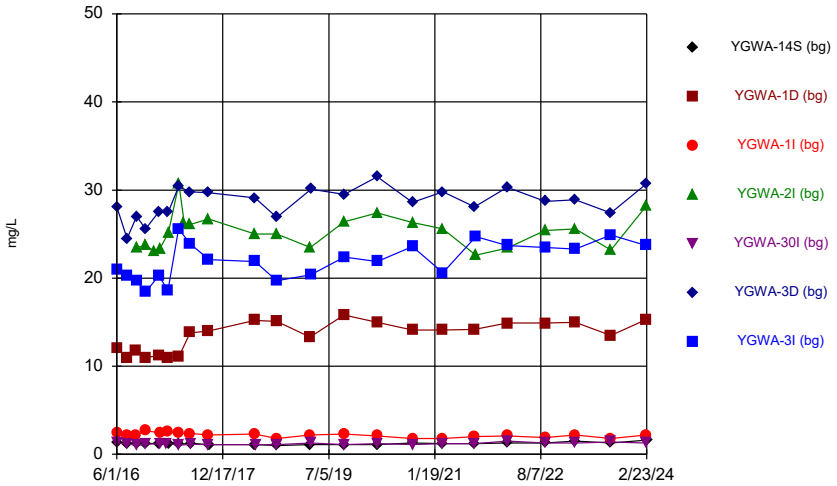
Sanitas™ v.10.0.16e Software licensed to . UG

## Time Series



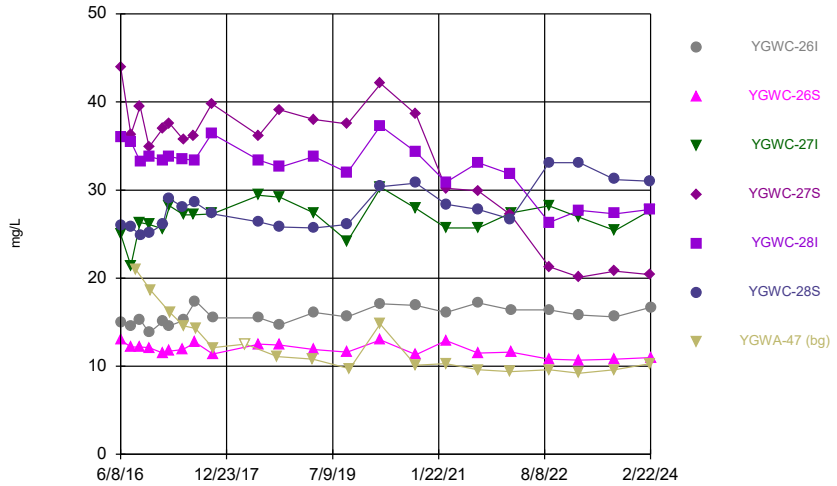

Constituent: Calcium Analysis Run 5/2/2024 9:45 AM

Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

Hollow symbols indicate censored values.

## Time Series



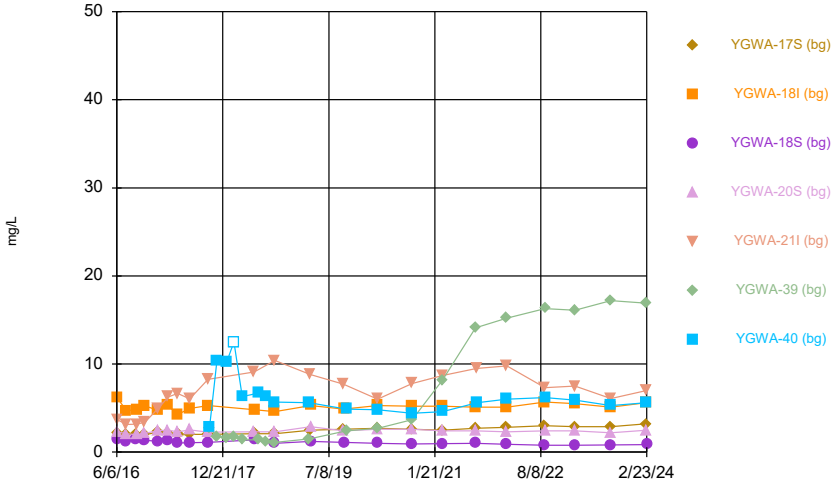

Constituent: Calcium Analysis Run 5/2/2024 9:45 AM

Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

Hollow symbols indicate censored values.

## Time Series




Constituent: Calcium Analysis Run 5/2/2024 9:45 AM

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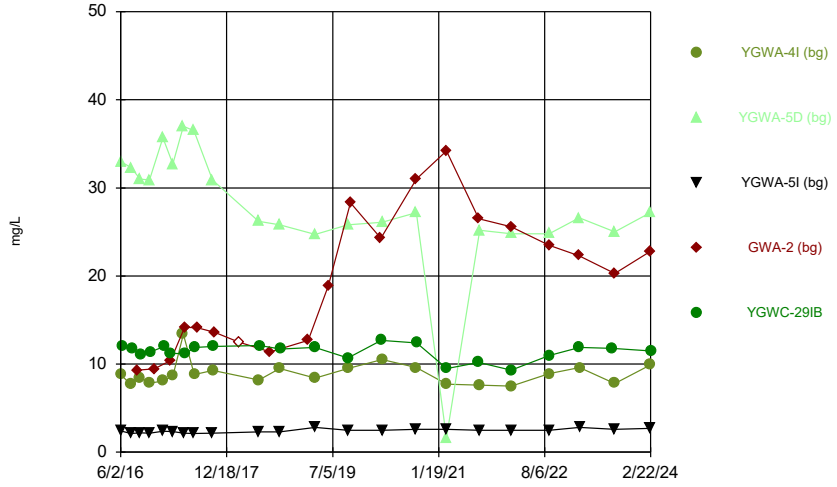
Sanitas™ v.10.0.16e Software licensed to . UG

Hollow symbols indicate censored values.

## Time Series

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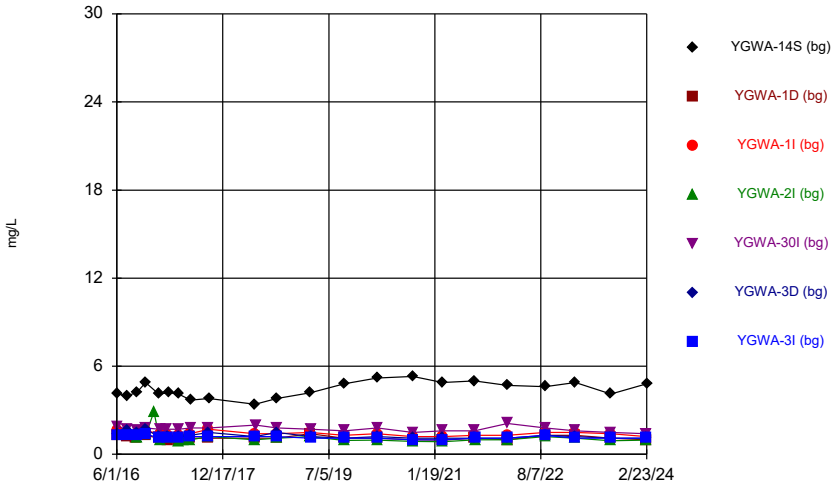
Sanitas™ v.10.0.16e Software licensed to . UG

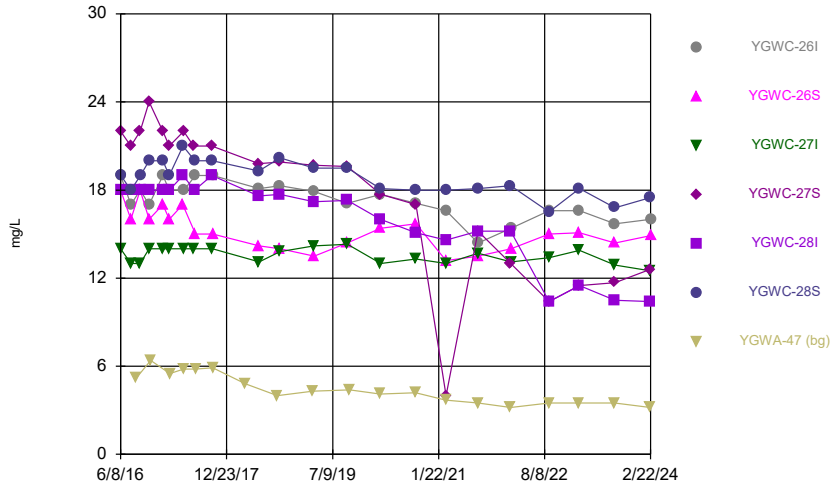
## Time Series




Constituent: Chloride Analysis Run 5/2/2024 9:45 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

## Time Series




Constituent: Chloride Analysis Run 5/2/2024 9:46 AM
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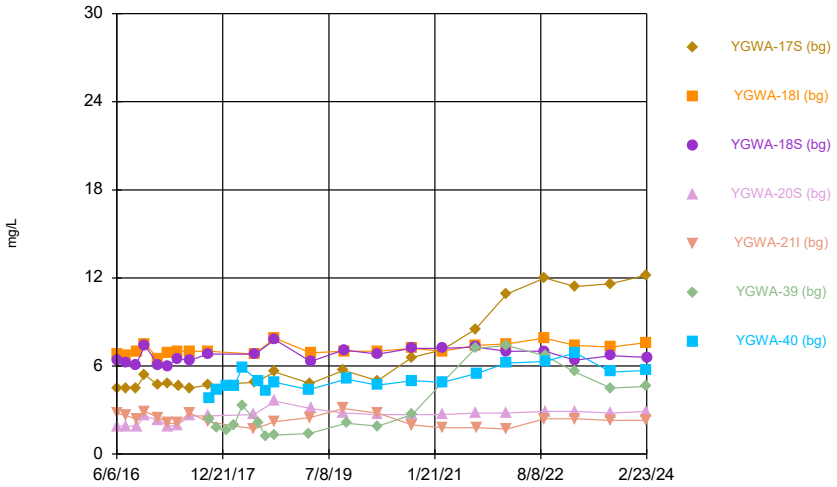
Sanitas™ v.10.0.16e Software licensed to . UG

## Time Series

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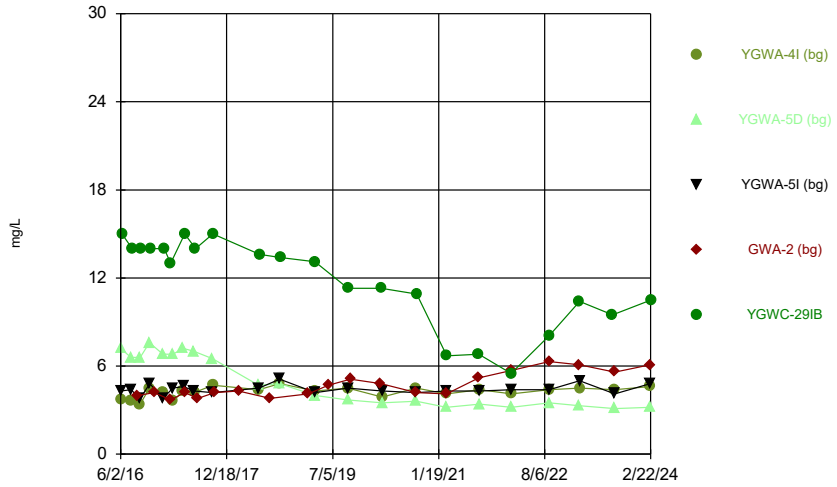
Sanitas™ v.10.0.16e Software licensed to . UG

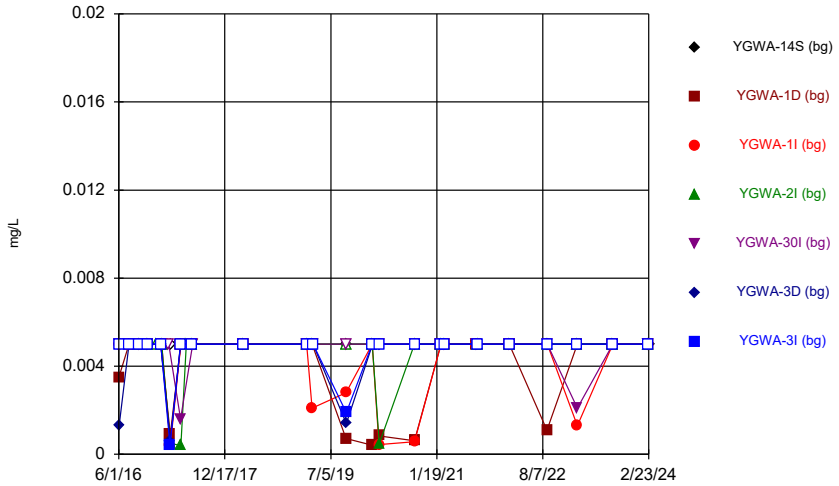
## Time Series




Constituent: Chloride Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

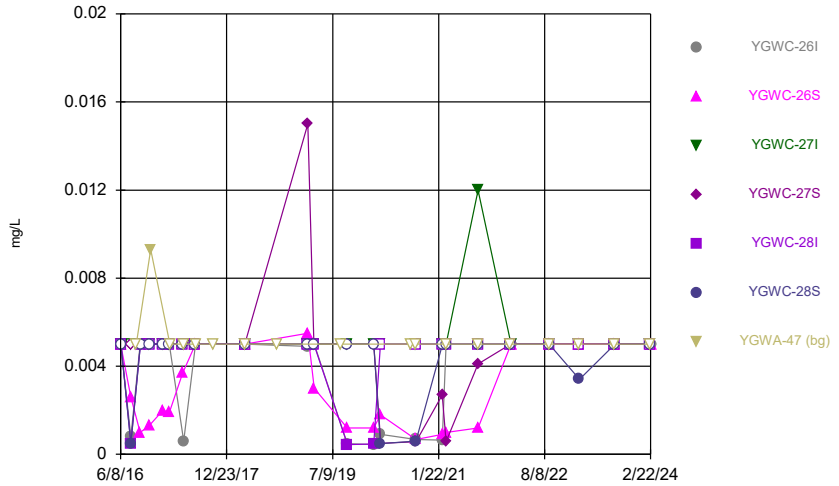
## Time Series




Constituent: Chromium Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

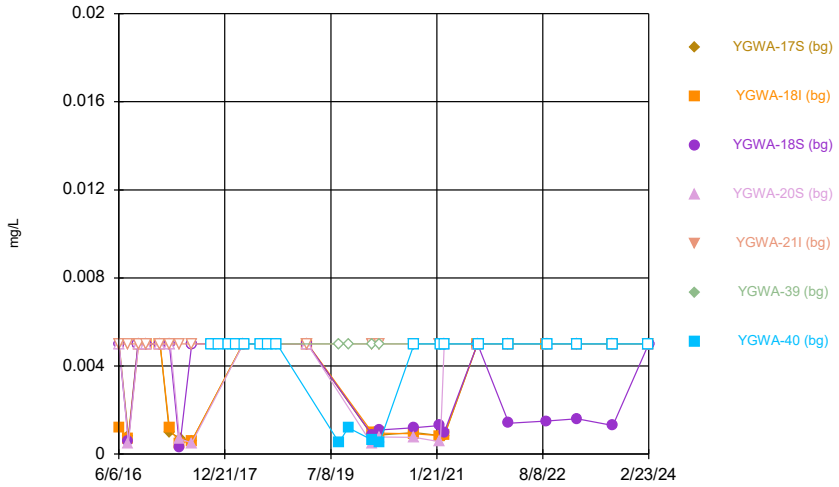
## Time Series




Constituent: Chromium Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

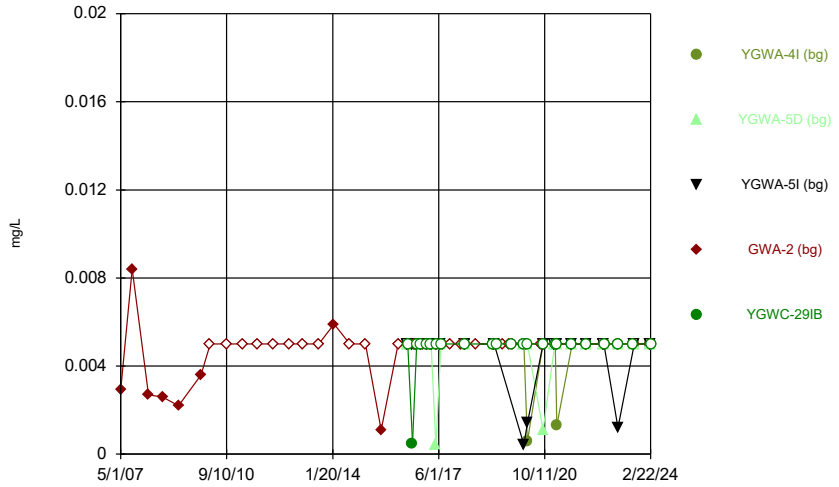
## Time Series




Constituent: Chromium Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Chromium Analysis Run 5/2/2024 9:46 AM
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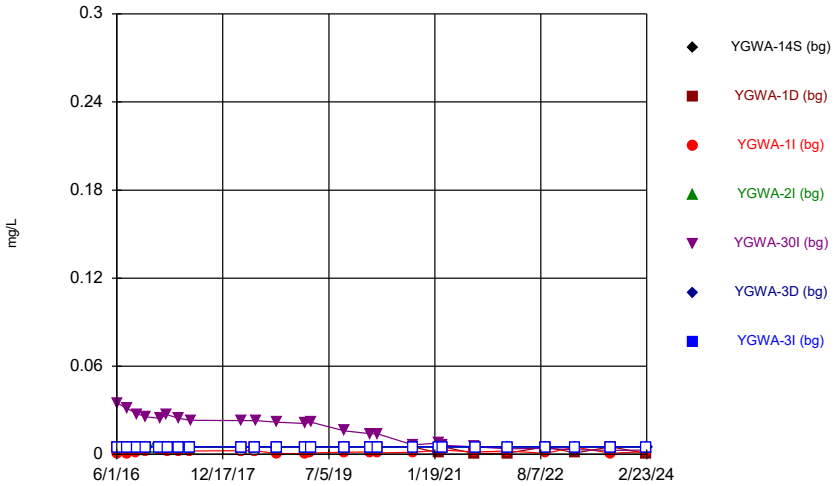
Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Cobalt Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
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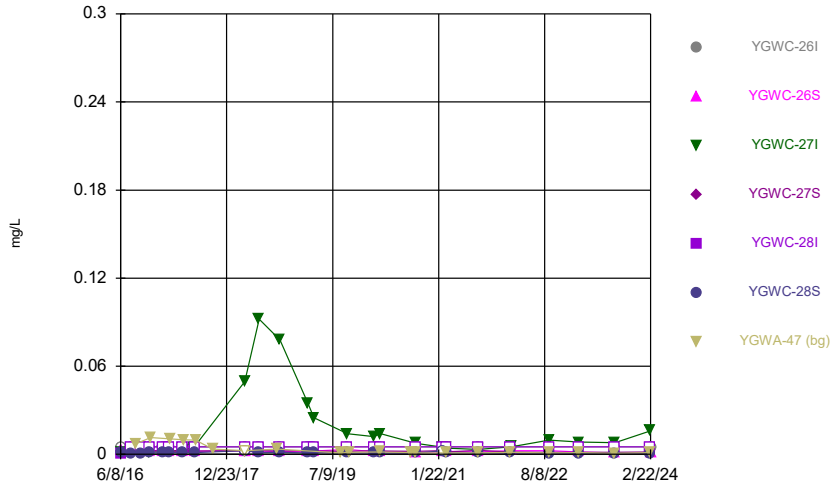
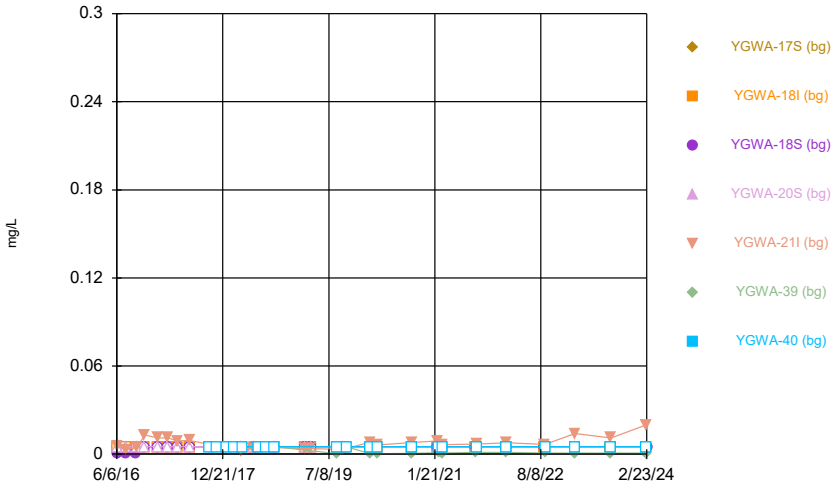
## Time Series




Constituent: Cobalt Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Cobalt Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
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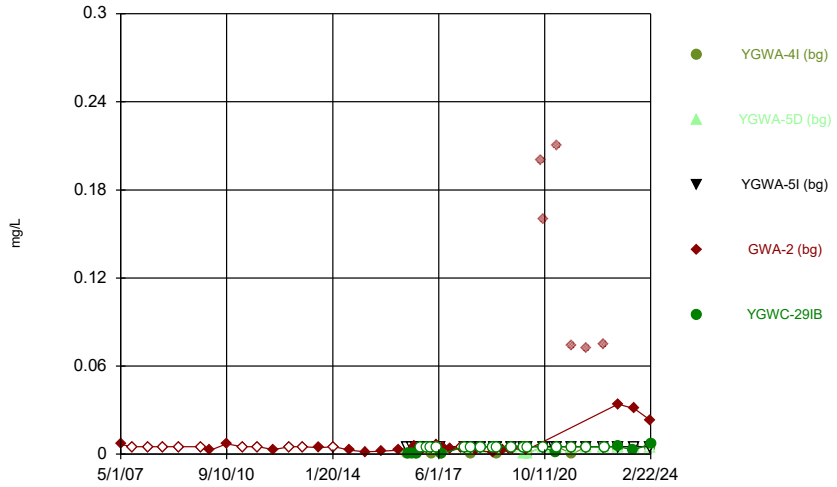
## Time Series

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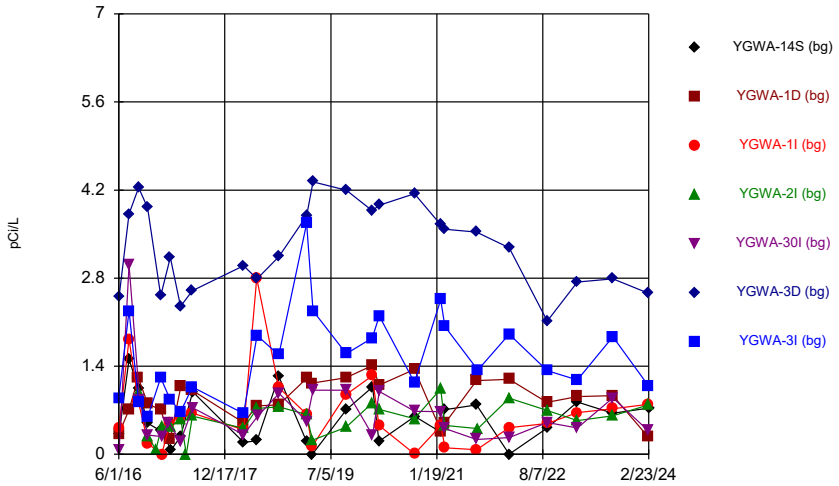
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

## Time Series



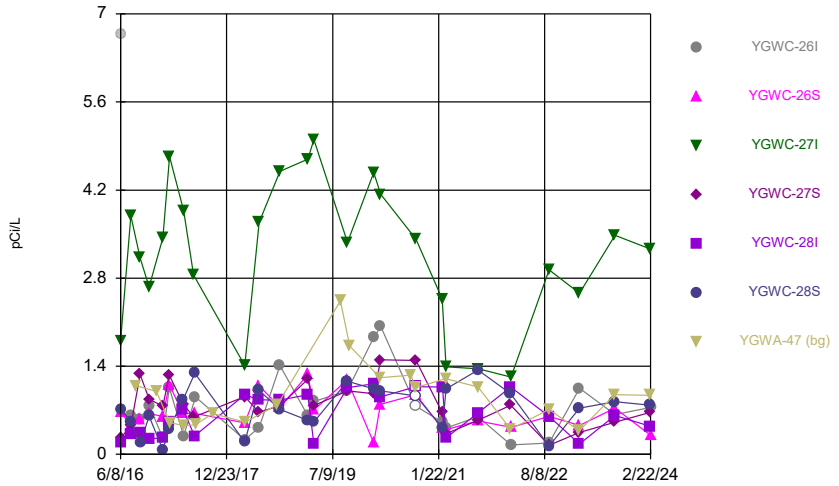

Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2024 9:46 AM

Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

Hollow symbols indicate censored values.

## Time Series

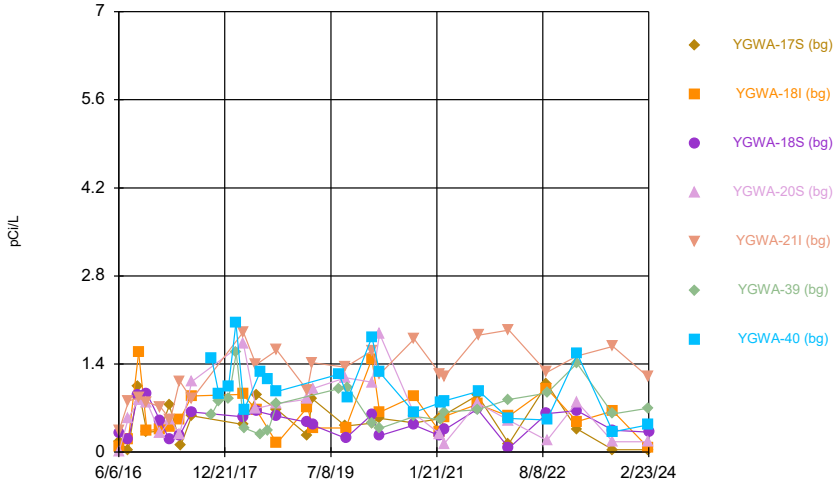



Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2024 9:46 AM

Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

## Time Series



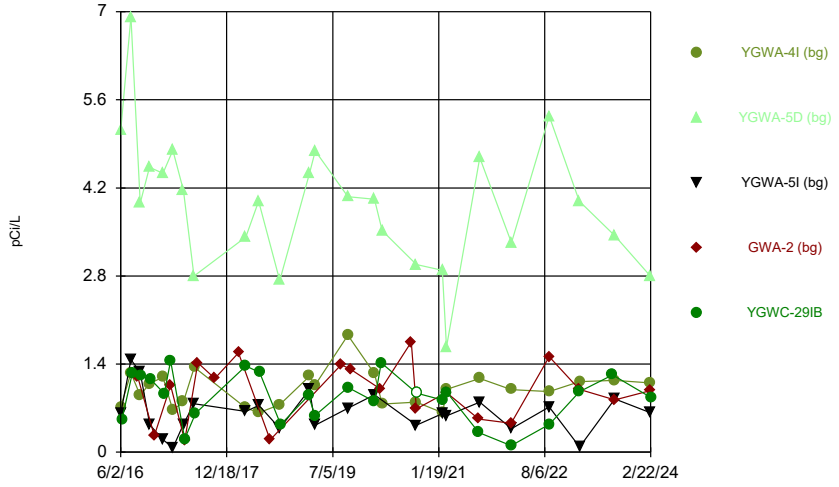

Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2024 9:46 AM

Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

Hollow symbols indicate censored values.

## Time Series

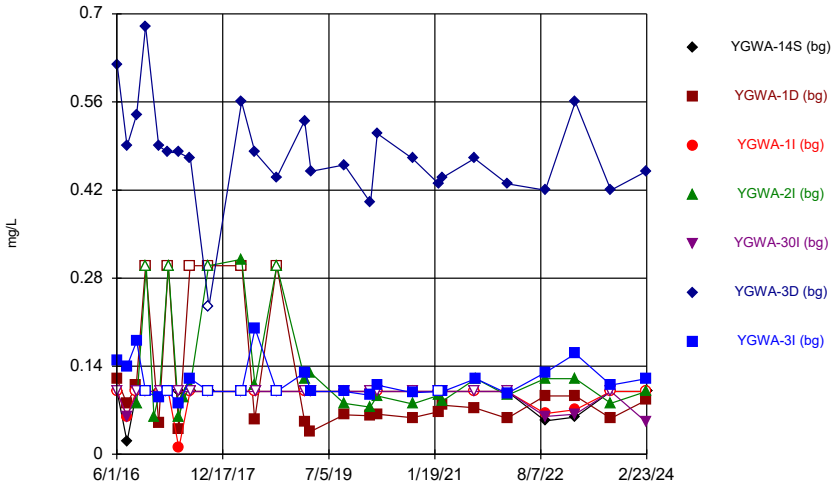



Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2024 9:46 AM

Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

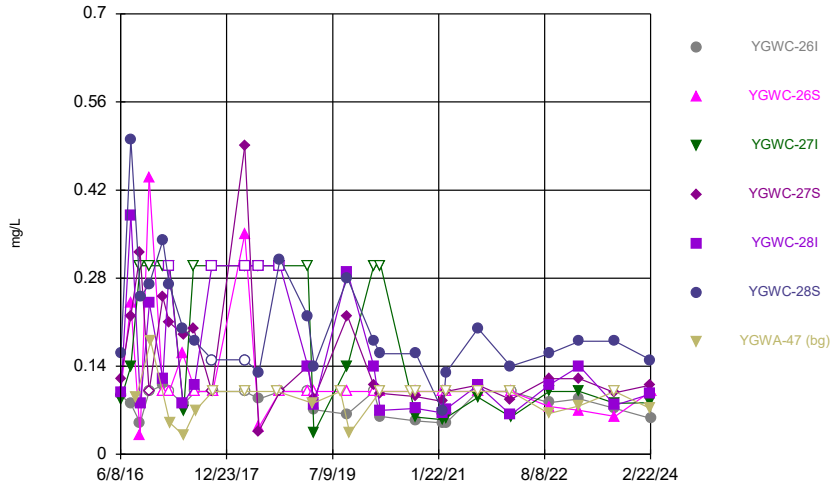
## Time Series




Constituent: Fluoride Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

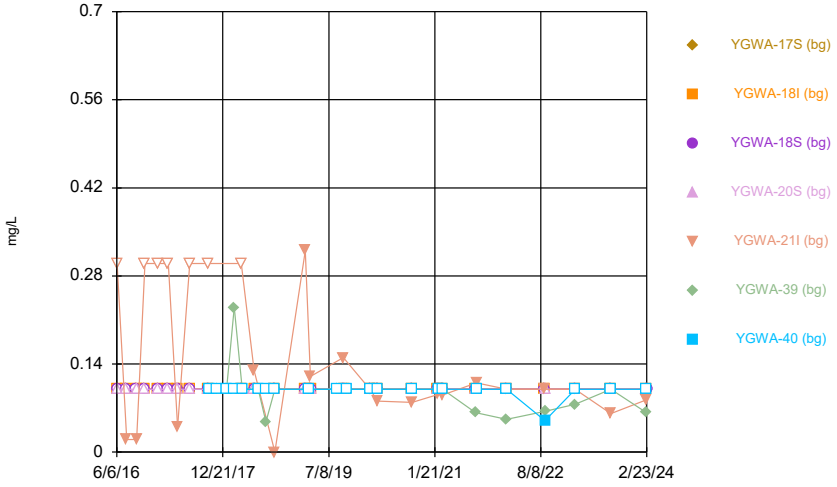
## Time Series




Constituent: Fluoride Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

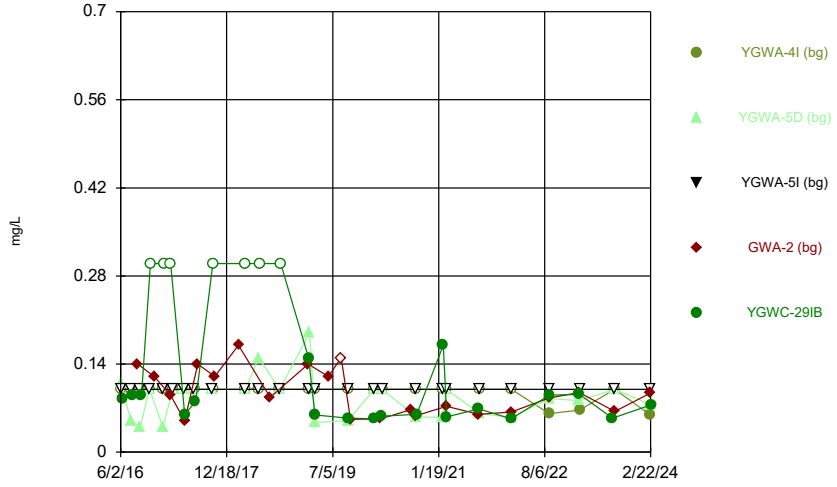
## Time Series




Constituent: Fluoride Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

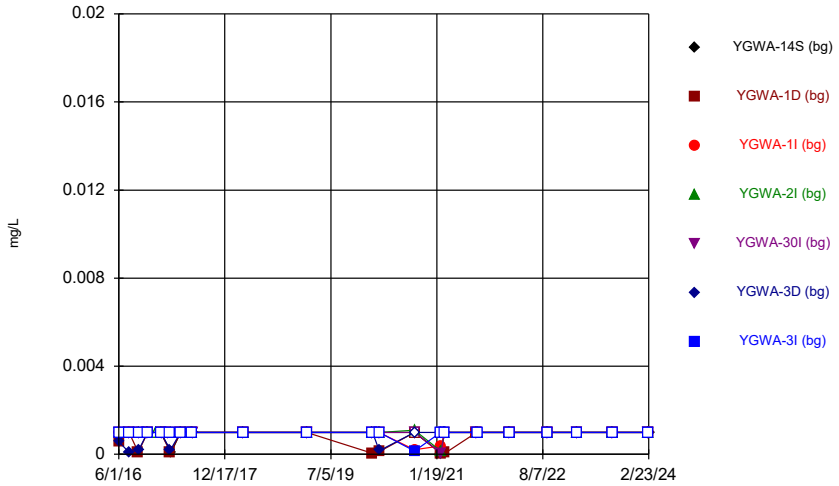
## Time Series




Constituent: Fluoride Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

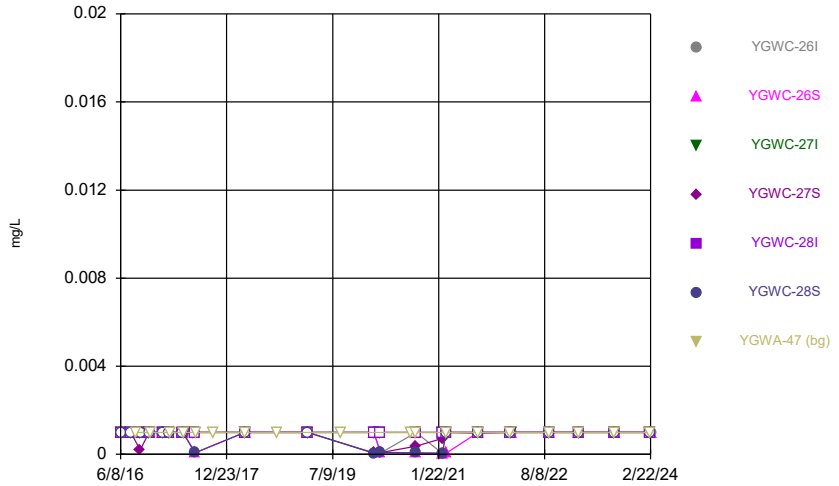
## Time Series




Constituent: Lead Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Lead Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
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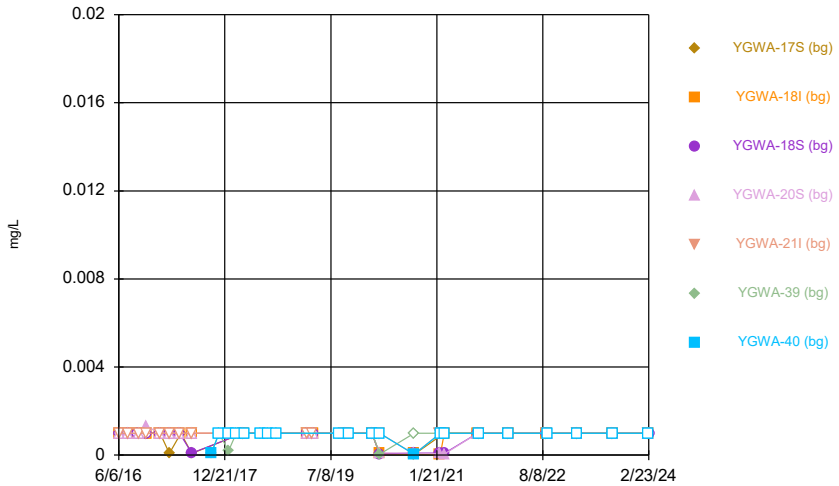
## Time Series




Constituent: Lead Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
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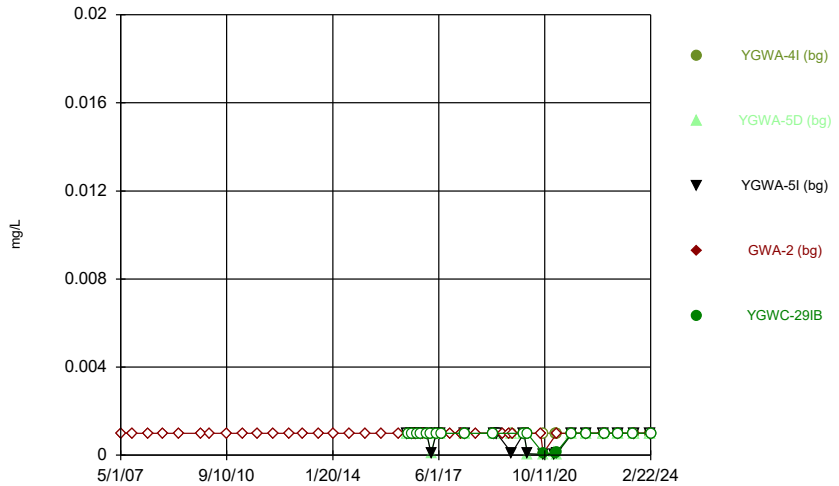
## Time Series

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Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
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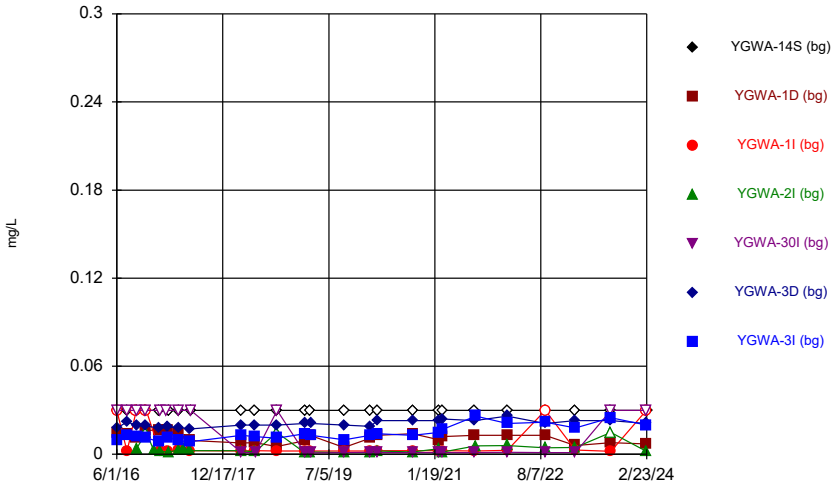
## Time Series




Constituent: Lithium Analysis Run 5/2/2024 9:46 AM
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Sanitas™ v.10.0.16e Software licensed to . UG
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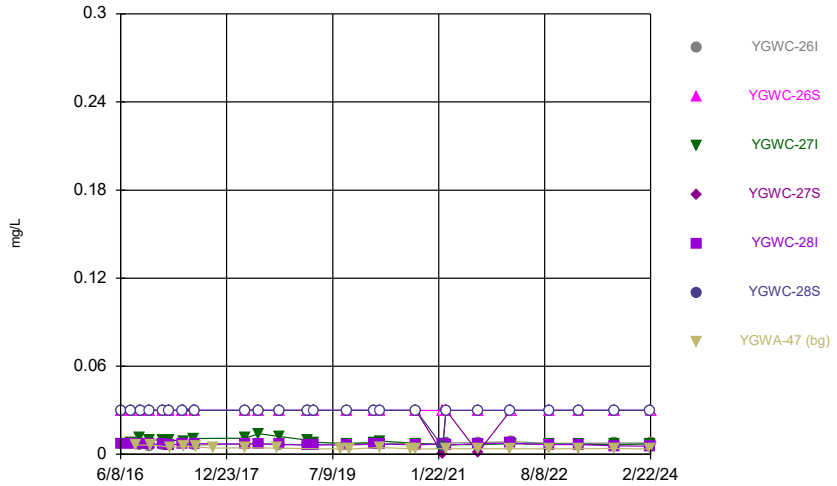
## Time Series

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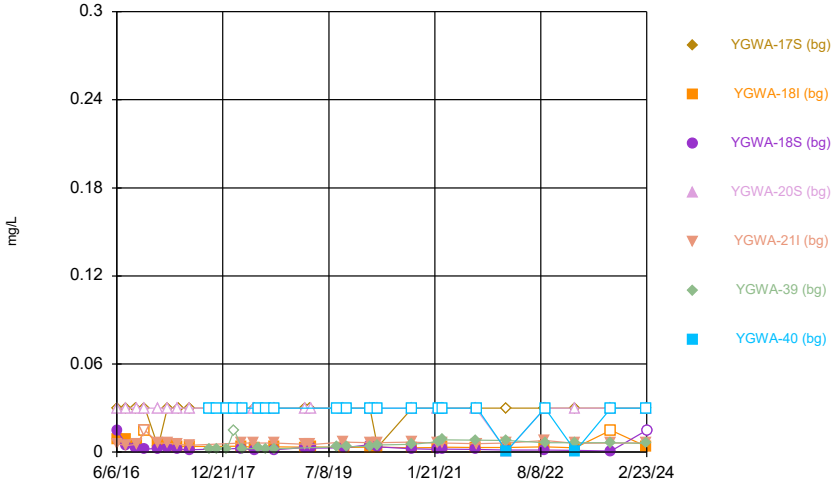
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

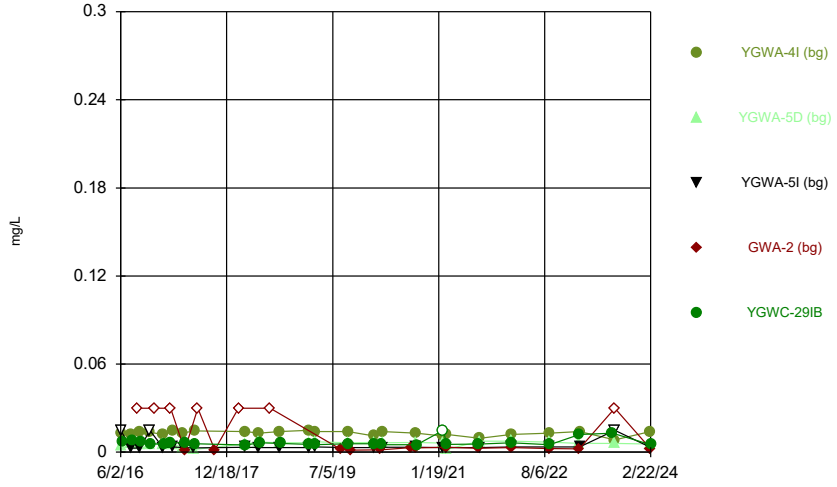
## Time Series




Constituent: Lithium Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

## Time Series

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Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
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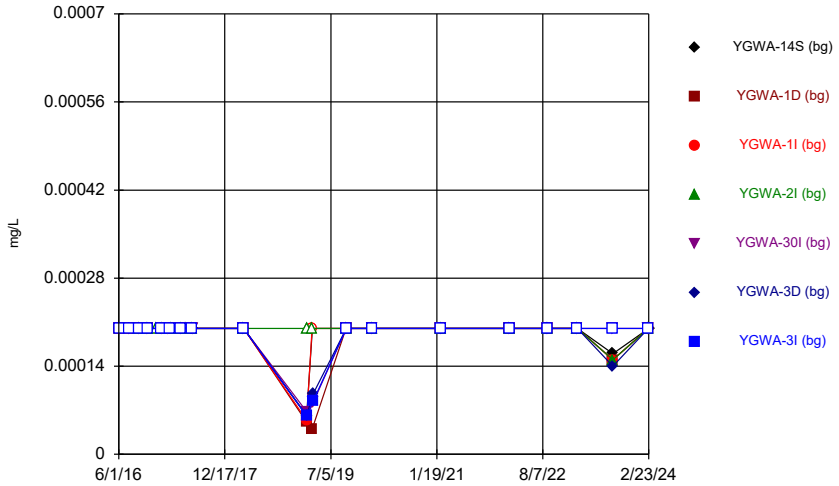
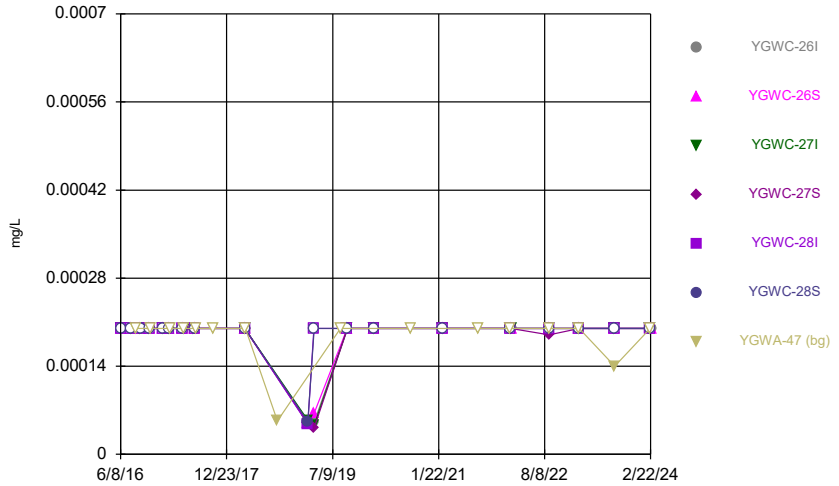
## Time Series




Constituent: Mercury Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Mercury Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
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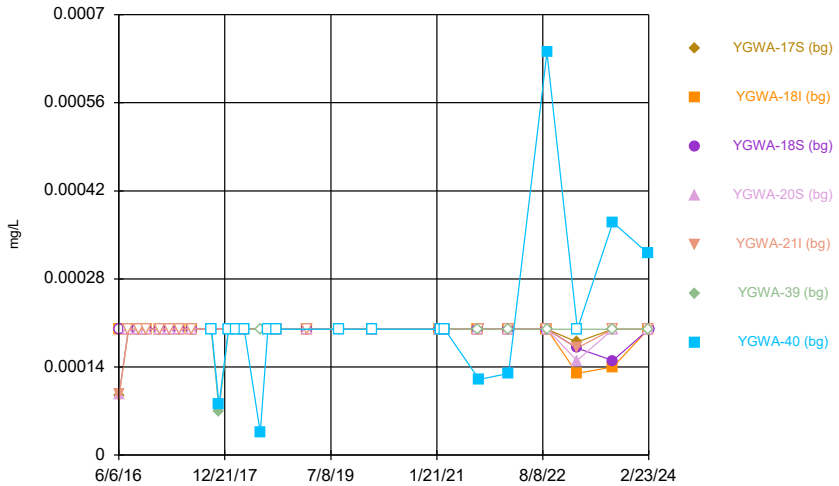
## Time Series




Constituent: Mercury Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

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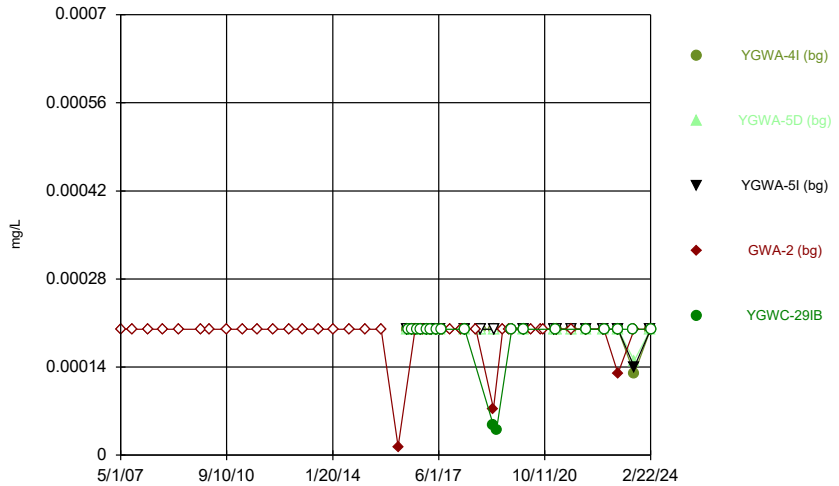
## Time Series

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Sanitas™ v.10.0.16e Software licensed to . UG
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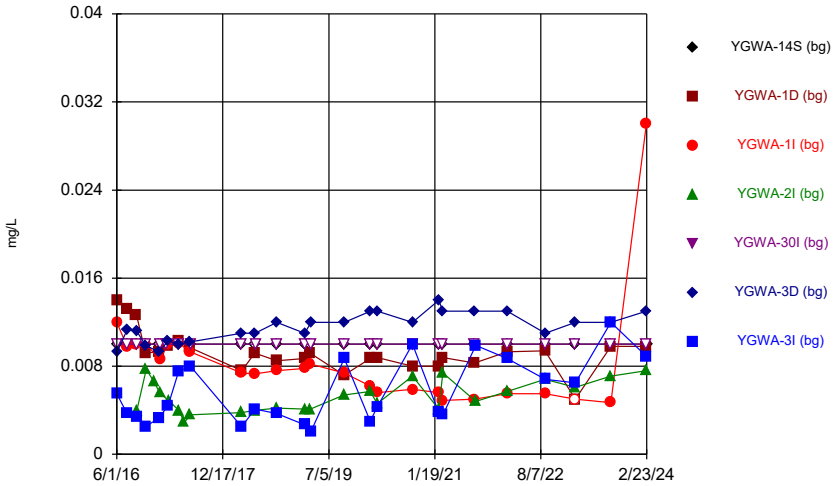
## Time Series




Constituent: Molybdenum Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
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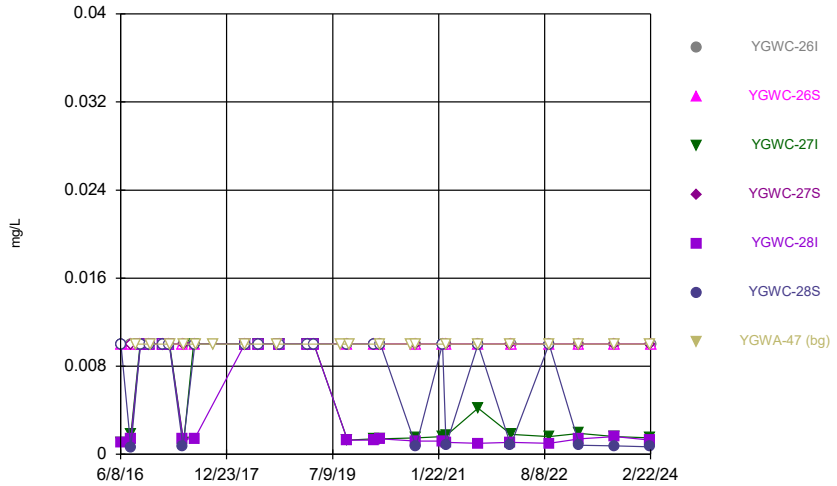
## Time Series

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Sanitas™ v.10.0.16e Software licensed to . UG
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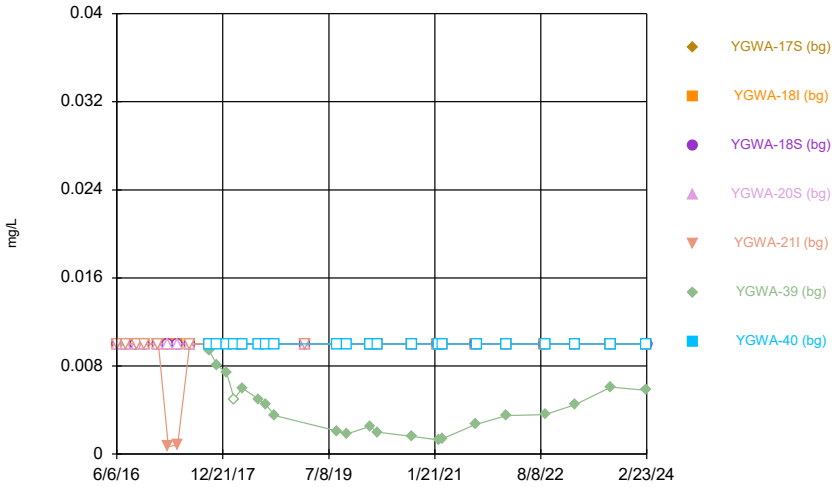
## Time Series




Constituent: Molybdenum Analysis Run 5/2/2024 9:46 AM
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Sanitas™ v.10.0.16e Software licensed to . UG
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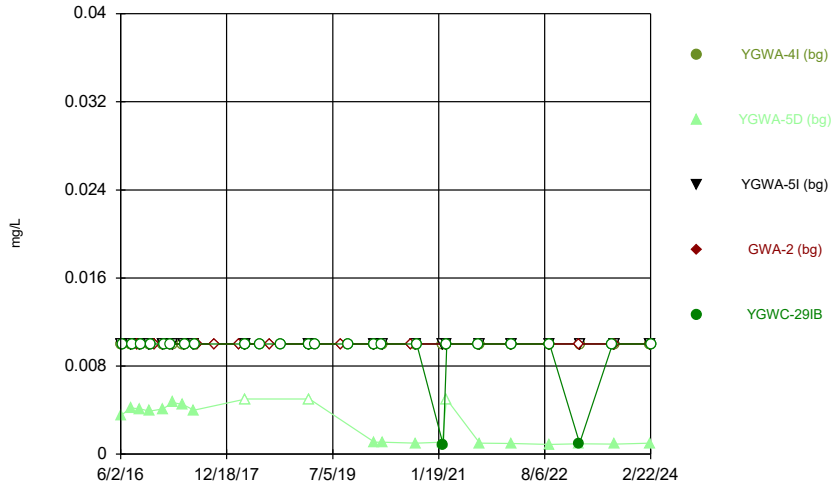
## Time Series

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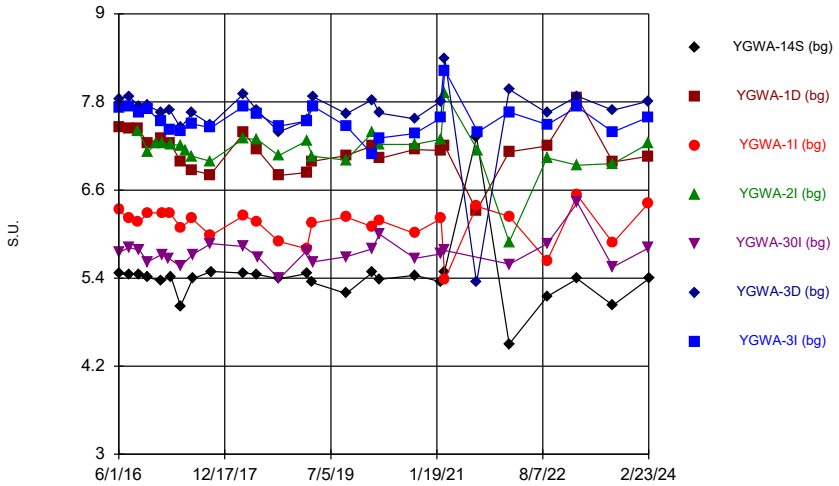
Sanitas™ v.10.0.16e Software licensed to . UG

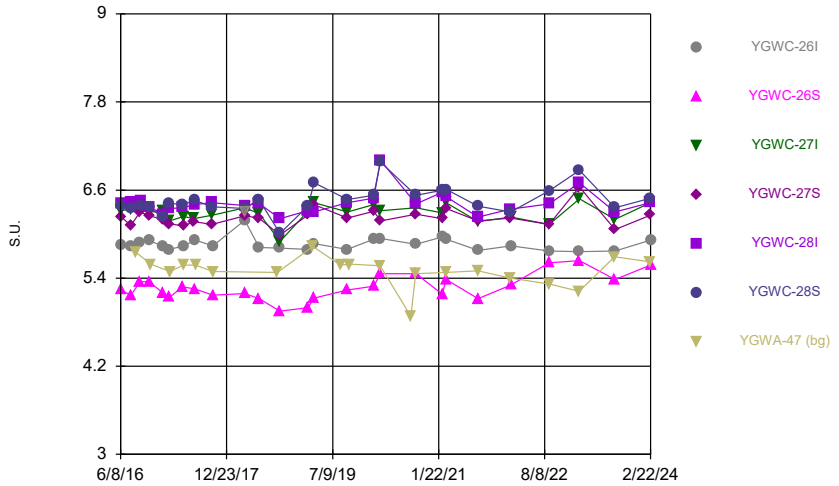
## Time Series




Constituent: pH Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

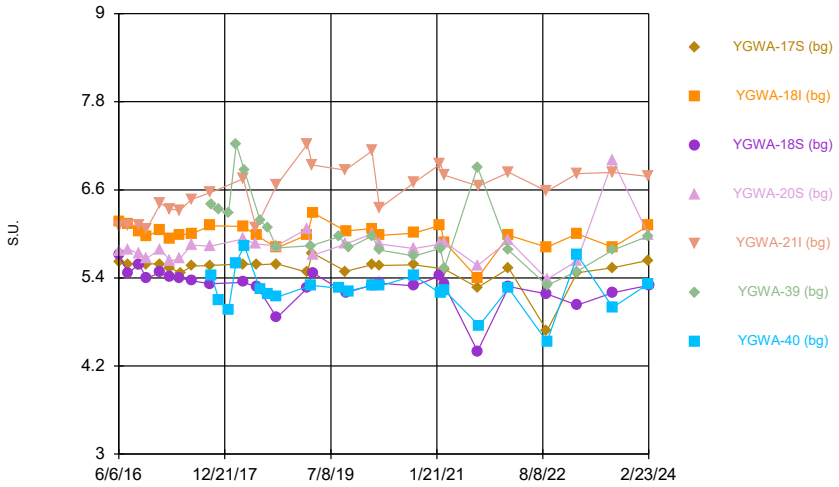
## Time Series




Constituent: pH Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

## Time Series

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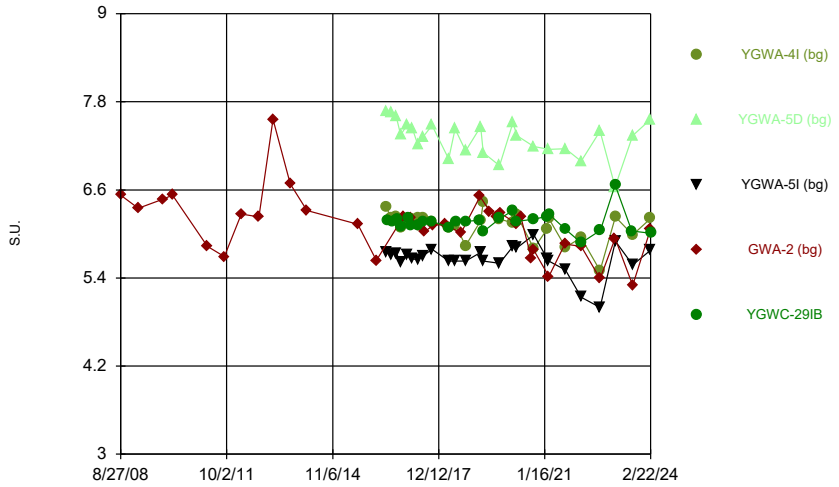
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

## Time Series

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Sanitas™ v.10.0.16e Software licensed to . UG
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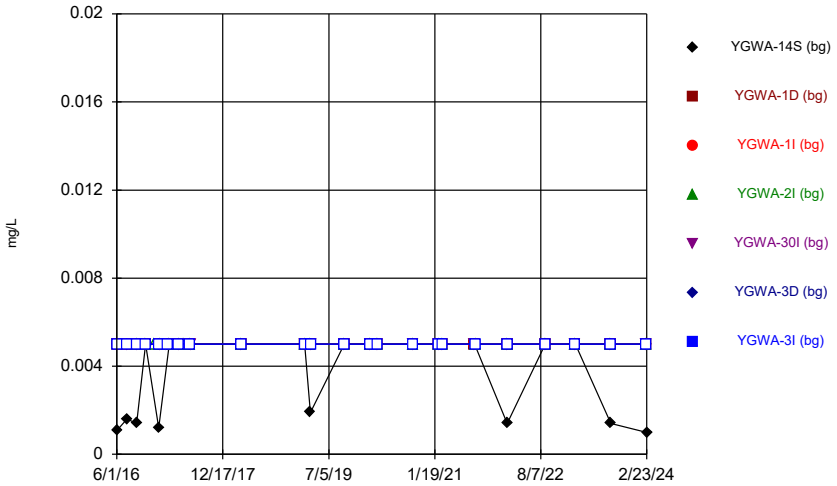


Constituent: Selenium Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

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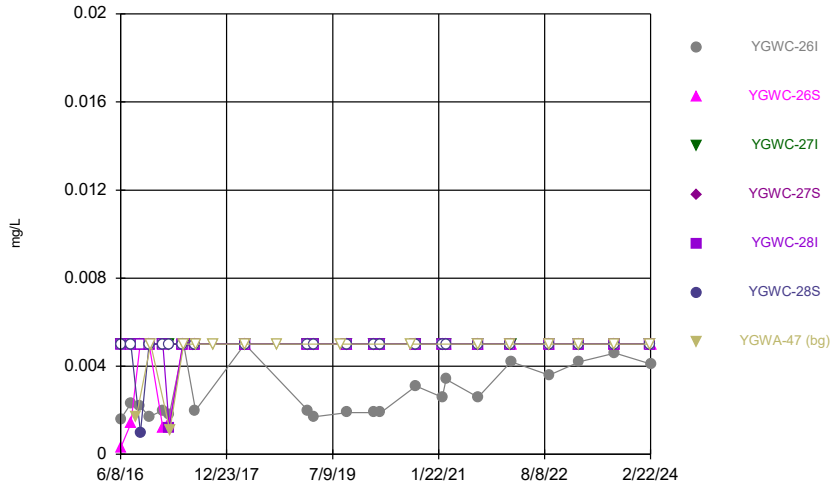
Hollow symbols indicate censored values.

## Time Series




Constituent: Selenium Analysis Run 5/2/2024 9:46 AM
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Sanitas™ v.10.0.16e Software licensed to . UG
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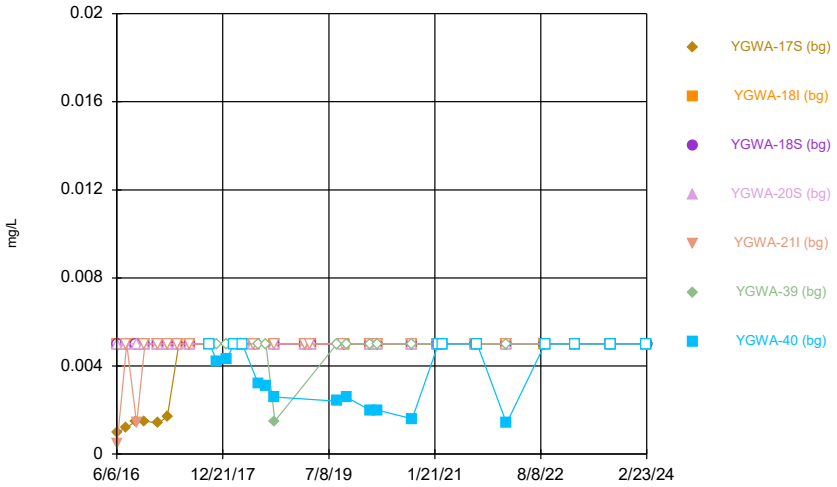
## Time Series




Constituent: Selenium Analysis Run 5/2/2024 9:46 AM
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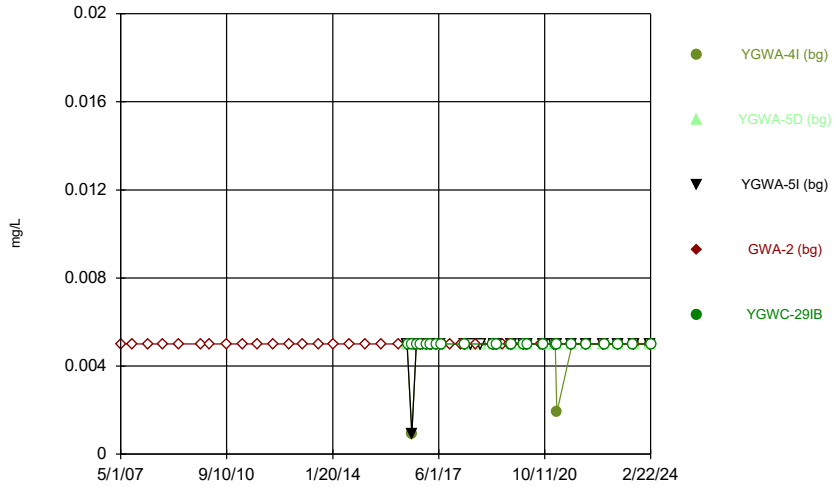
Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

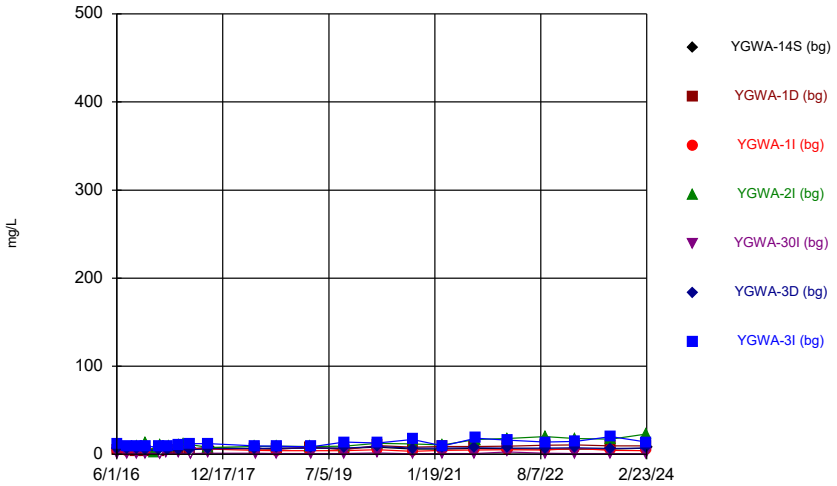
## Time Series




Constituent: Selenium Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

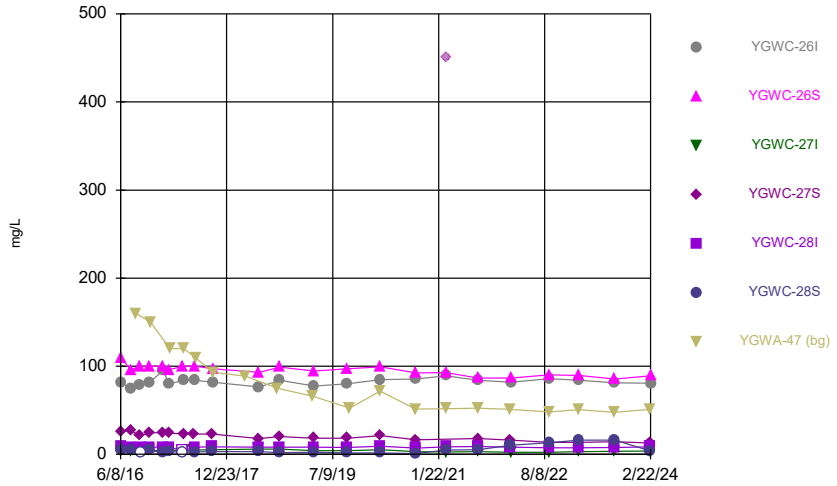
## Time Series




Constituent: Sulfate Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Sulfate Analysis Run 5/2/2024 9:46 AM
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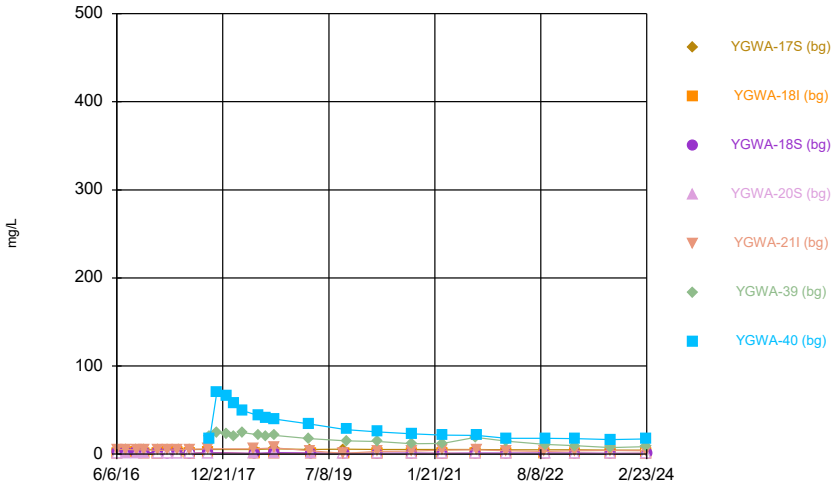
Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

## Time Series

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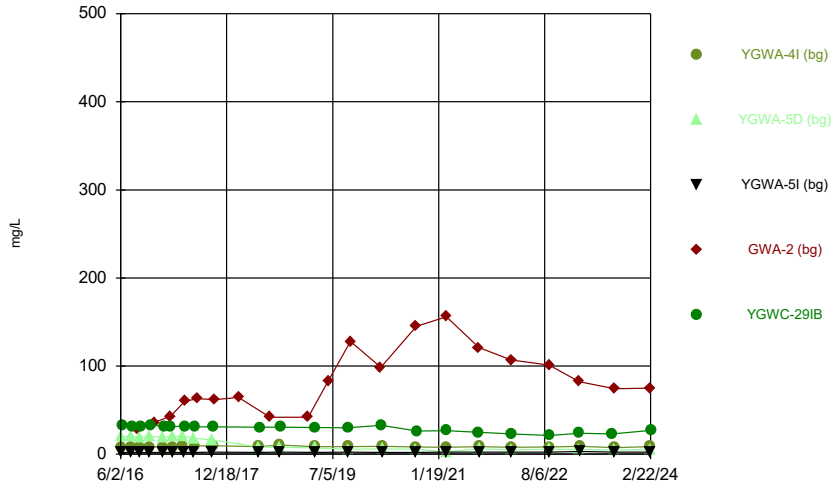
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

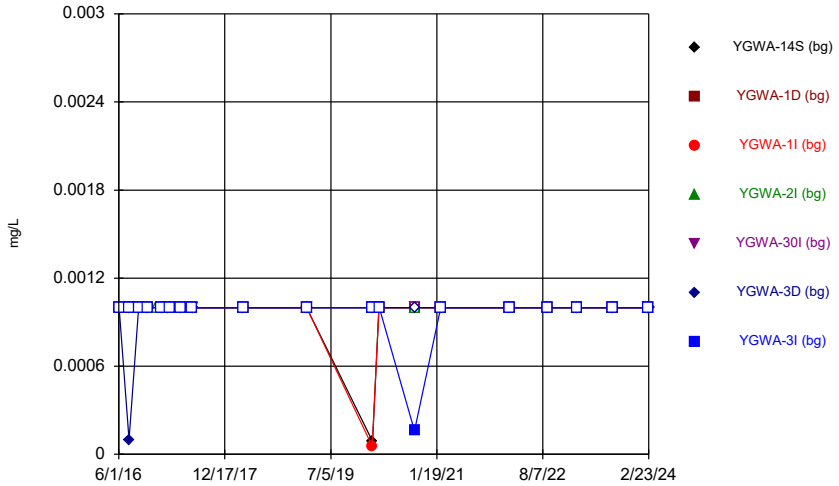
## Time Series




Constituent: Sulfate Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Thallium Analysis Run 5/2/2024 9:46 AM
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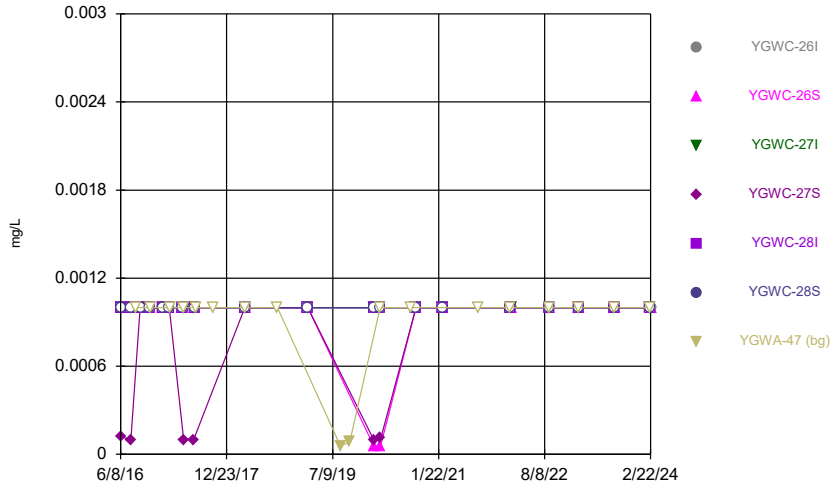
Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Thallium Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
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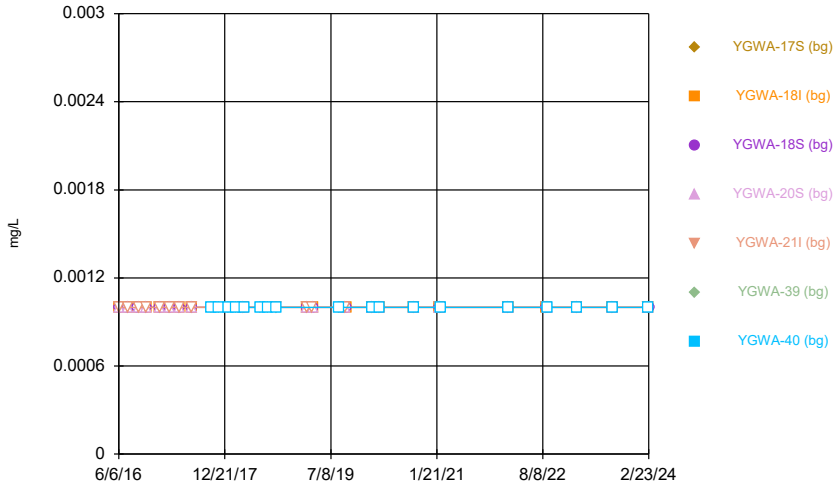
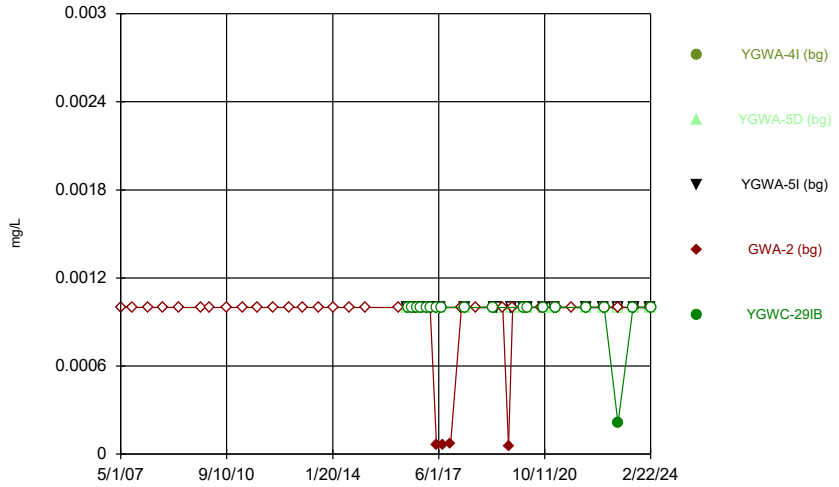
## Time Series




Constituent: Thallium Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

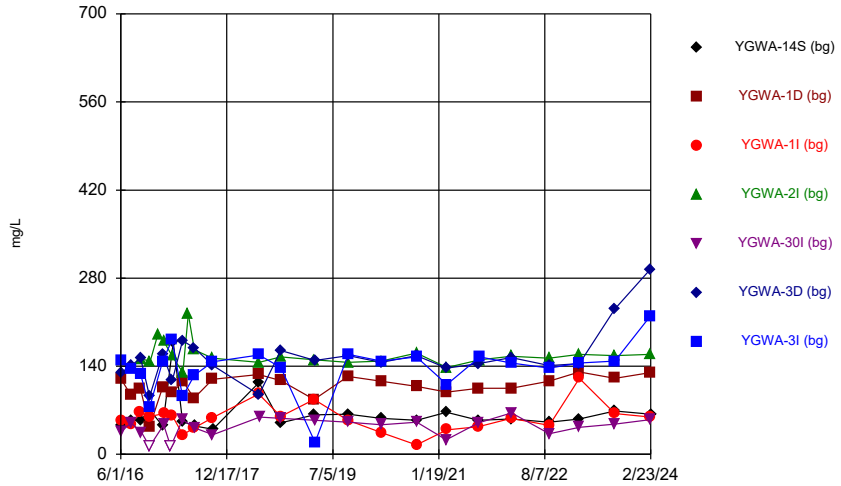
## Time Series




Constituent: Thallium Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

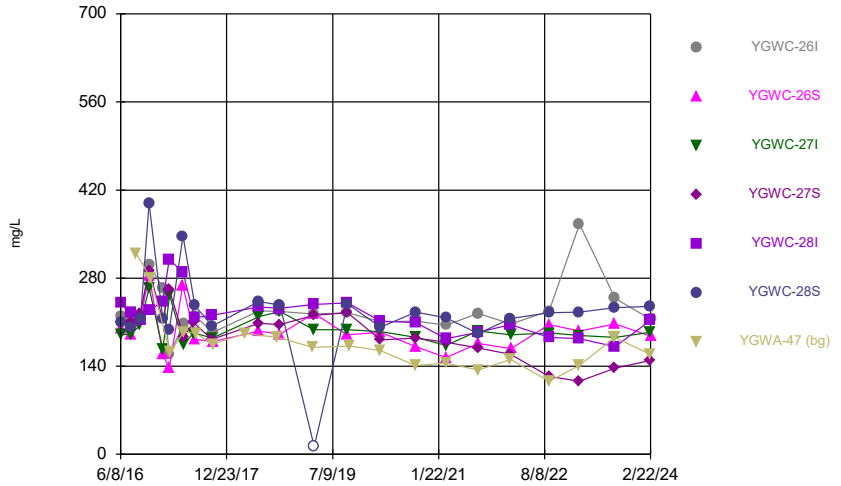
## Time Series




Constituent: Total Dissolved Solids Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Total Dissolved Solids Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

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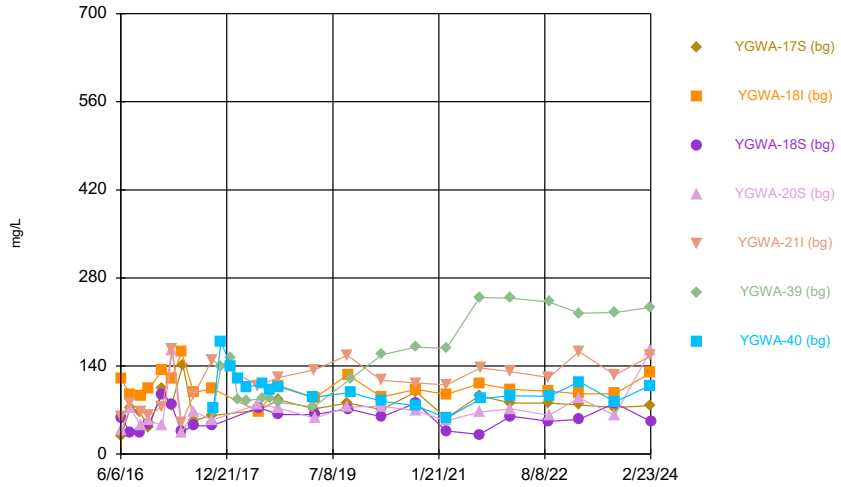
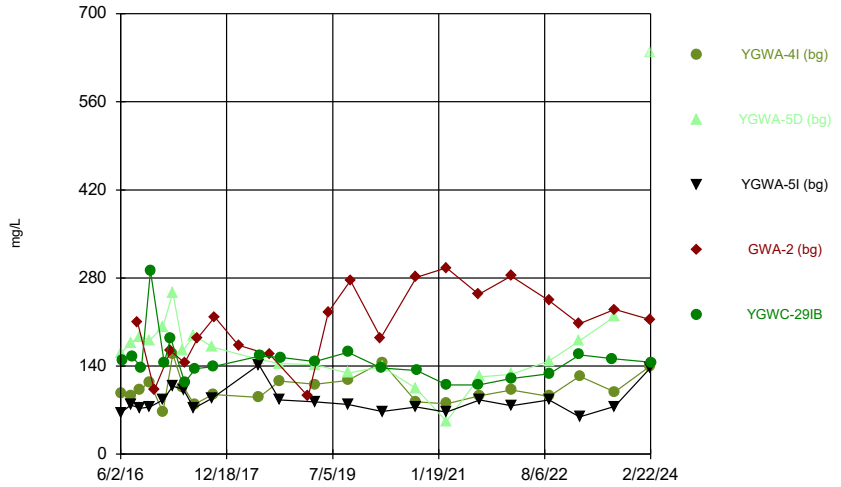
## Time Series




Constituent: Total Dissolved Solids Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

## Time Series




Constituent: Total Dissolved Solids Analysis Run 5/2/2024 9:47 AM
Plant Yates Data: Yates Ash Pond 2

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 6/1/2016 | | <0.003 | <0.003 | | | | <0.003 |
| 6/2/2016 | <0.003 | | | | <0.003 | <0.003 | |
| 7/25/2016 | | | <0.003 | | <0.003 | | <0.003 |
| 7/26/2016 | 0.0005 (J) | 0.001 (J) | | | | 0.002 (J) | |
| 9/13/2016 | | 0.001 (J) | <0.003 | | | | |
| 9/14/2016 | | | | <0.003 | | | <0.003 |
| 9/15/2016 | <0.003 | | | | | 0.0027 (J) | |
| 9/19/2016 | | | | | <0.003 | | |
| 11/1/2016 | | 0.0015 (J) | | | <0.003 | <0.003 | <0.003 |
| 11/2/2016 | <0.003 | | | | | | |
| 11/4/2016 | | | <0.003 | <0.003 | | | |
| 12/15/2016 | | | | 0.0012 (J) | | | |
| 1/10/2017 | <0.003 | | | | | | |
| 1/11/2017 | | <0.003 | | | | <0.003 | <0.003 |
| 1/16/2017 | | | <0.003 | <0.003 | <0.003 | | |
| 2/21/2017 | | | | | <0.003 | | |
| 3/1/2017 | | | | | | | <0.003 |
| 3/2/2017 | | 0.0004 (J) | <0.003 | | | 0.0008 (J) | |
| 3/3/2017 | | | | <0.003 | | | |
| 3/8/2017 | <0.003 | | | | | | |
| 4/26/2017 | <0.003 | | | | <0.003 | <0.003 | <0.003 |
| 4/27/2017 | | 0.0004 (J) | 0.0017 (J) | | | | |
| 4/28/2017 | | | | 0.0015 (J) | | | |
| 5/26/2017 | | | | 0.0005 (J) | | | |
| 6/27/2017 | | <0.003 | <0.003 | | | | |
| 6/28/2017 | | | | <0.003 | | <0.003 | <0.003 |
| 6/30/2017 | <0.003 | | | | <0.003 | | |
| 3/27/2018 | <0.003 | | <0.003 | | <0.003 | | |
| 3/28/2018 | | | | <0.003 | | <0.003 | <0.003 |
| 3/29/2018 | | <0.003 | | | | | |
| 2/26/2019 | <0.003 | | | | <0.003 | | |
| 2/27/2019 | | <0.003 | <0.003 | <0.003 | | <0.003 | <0.003 |
| 2/10/2020 | | 0.00088 (J) | <0.003 | | | | |
| 2/11/2020 | | | | 0.00036 (J) | | | <0.003 |
| 2/12/2020 | <0.003 | | | | <0.003 | <0.003 | |
| 3/18/2020 | <0.003 | | 0.0004 (J) | | | | |
| 3/19/2020 | | <0.003 | | 0.0003 (J) | <0.003 | 0.00064 (J) | <0.003 |
| 9/23/2020 | | <0.003 | <0.003 | <0.003 | | <0.003 | <0.003 |
| 9/24/2020 | | | | | <0.003 | | |
| 9/25/2020 | <0.003 | | | | | | |
| 2/10/2021 | <0.003 | | | 0.0013 (J) | | <0.003 | <0.003 |
| 2/11/2021 | | | | | <0.003 | | |
| 2/12/2021 | | <0.003 | <0.003 | | | | |
| 3/1/2021 | | | | | <0.003 | | |
| 3/2/2021 | <0.003 | | | | | | |
| 3/3/2021 | | <0.003 | <0.003 | <0.003 | | <0.003 | <0.003 |
| 8/19/2021 | <0.003 | <0.003 | <0.003 | | <0.003 | <0.003 | |
| 8/27/2021 | | | | <0.003 | | | <0.003 |
| 2/9/2022 | | <0.003 | <0.003 | <0.003 | | 0.0018 (J) | <0.003 |
| 2/10/2022 | <0.003 | | | | | | |
| 2/11/2022 | | | | | <0.003 | | |
| 8/30/2022 | | <0.003 | | <0.003 | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 8/31/2022 | <0.003 | | <0.003 | | <0.003 | <0.003 | <0.003 |
| 2/7/2023 | | <0.003 | <0.003 | <0.003 | | | |
| 2/8/2023 | <0.003 | | | | <0.003 | <0.003 | <0.003 |
| 8/15/2023 | <0.003 | <0.003 | <0.003 | <0.003 | | <0.003 | |
| 8/16/2023 | | | | | <0.003 | | <0.003 |
| 2/20/2024 | | 0.0023 (J) | <0.003 | 0.00067 (J) | <0.003 | <0.003 | <0.003 |
| 2/23/2024 | <0.003 | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | <0.003 | <0.003 | <0.003 | <0.003 | | | |
| 6/9/2016 | | | | | <0.003 | <0.003 | |
| 8/1/2016 | <0.003 | <0.003 | <0.003 | <0.003 | | | |
| 8/2/2016 | | | | | <0.003 | <0.003 | |
| 8/30/2016 | | | | | | | 0.0028 (J) |
| 9/20/2016 | <0.003 | <0.003 | <0.003 | <0.003 | | | |
| 9/21/2016 | | | | | <0.003 | <0.003 | |
| 11/7/2016 | <0.003 | <0.003 | <0.003 | <0.003 | | <0.003 | |
| 11/8/2016 | | | | | <0.003 | | |
| 11/14/2016 | | | | | | | <0.003 |
| 1/18/2017 | <0.003 | <0.003 | <0.003 | | <0.003 | <0.003 | |
| 1/19/2017 | | | | <0.003 | | | |
| 2/21/2017 | <0.003 | <0.003 | | | | <0.003 | |
| 2/22/2017 | | | | <0.003 | <0.003 | | |
| 2/23/2017 | | | <0.003 | | | | |
| 2/24/2017 | | | | | | | <0.003 |
| 5/3/2017 | | <0.003 | | | | | |
| 5/5/2017 | | | | | <0.003 | <0.003 | |
| 5/8/2017 | <0.003 | | <0.003 | <0.003 | | | 0.0004 (J) |
| 6/30/2017 | | | <0.003 | <0.003 | | | |
| 7/5/2017 | | | | | <0.003 | | |
| 7/7/2017 | | | | | | <0.003 | |
| 7/10/2017 | <0.003 | <0.003 | | | | | |
| 7/11/2017 | | | | | | | 0.0006 (J) |
| 10/10/2017 | | | | | | | <0.003 |
| 3/29/2018 | | | <0.003 | <0.003 | | | |
| 3/30/2018 | <0.003 | <0.003 | | | <0.003 | <0.003 | |
| 4/2/2018 | | | | | | | <0.003 |
| 9/19/2018 | | | | | | | <0.003 |
| 2/27/2019 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | |
| 8/20/2019 | | | | | | | <0.003 |
| 2/13/2020 | 0.00052 (J) | 0.0016 (J) | <0.003 | <0.003 | <0.003 | <0.003 | |
| 3/19/2020 | | 0.0017 (J) | | | <0.003 | <0.003 | |
| 3/20/2020 | 0.00059 (J) | | 0.00033 (J) | 0.0003 (J) | | | |
| 8/27/2020 | | | | | | | 0.00048 (J) |
| 9/22/2020 | | | | | | | <0.003 |
| 9/24/2020 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | |
| 2/10/2021 | <0.003 | <0.003 | <0.003 | <0.003 | | | |
| 2/11/2021 | | | | | <0.003 | | |
| 2/12/2021 | | | | | | <0.003 | |
| 3/1/2021 | | | | | | | 0.00048 (J) |
| 3/2/2021 | | <0.003 | | | | | |
| 3/3/2021 | <0.003 | | <0.003 | <0.003 | <0.003 | <0.003 | |
| 8/19/2021 | | <0.003 | | | | | <0.003 |
| 8/20/2021 | <0.003 | | <0.003 | <0.003 | <0.003 | <0.003 | |
| 2/8/2022 | | | | <0.003 | <0.003 | <0.003 | <0.003 |
| 2/10/2022 | <0.003 | <0.003 | <0.003 | | | | |
| 8/31/2022 | 0.001 (J) | <0.003 | | | | | <0.003 |
| 9/1/2022 | | | <0.003 | <0.003 | <0.003 | <0.003 | |
| 2/8/2023 | | | | | | | <0.003 |
| 2/9/2023 | <0.003 | <0.003 | 0.0014 (J) | <0.003 | <0.003 | <0.003 | |
| 8/15/2023 | | | | | | | <0.003 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 8/16/2023 | | | | | 0.0023 (J) | <0.003 | |
| 8/17/2023 | <0.003 | <0.003 | <0.003 | <0.003 | | | |
| 2/20/2024 | | | | | | | <0.003 |
| 2/21/2024 | | | <0.003 | <0.003 | <0.003 | <0.003 | |
| 2/22/2024 | <0.003 | <0.003 | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 6/6/2016 | | <0.003 | <0.003 | | | | |
| 6/7/2016 | <0.003 | | | <0.003 | <0.003 | | |
| 7/27/2016 | <0.003 | 0.0005 (J) | <0.003 | <0.003 | | | |
| 7/28/2016 | | | | | <0.003 | | |
| 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 | | |
| 10/11/2017 | | | | | | 0.0006 (J) | |
| 10/12/2017 | | | | | | | <0.003 |
| 11/20/2017 | | | | | | <0.003 | <0.003 |
| 1/10/2018 | | | | | | | <0.003 |
| 1/11/2018 | | | | | | <0.003 | |
| 2/19/2018 | | | | | | | <0.003 |
| 2/20/2018 | | | | | | <0.003 | |
| 3/28/2018 | <0.003 | <0.003 | <0.003 | | | | |
| 3/29/2018 | | | | <0.003 | <0.003 | | |
| 4/3/2018 | | | | | | <0.003 | <0.003 |
| 6/28/2018 | | | | | | <0.003 | <0.003 |
| 8/7/2018 | | | | | | <0.003 | <0.003 |
| 9/24/2018 | | | | | | <0.003 | <0.003 |
| 3/5/2019 | <0.003 | | <0.003 | <0.003 | 0.0011 (J) | | |
| 3/6/2019 | | <0.003 | | | | | |
| 4/2/2019 | <0.003 | | | | 0.0011 (J) | | |
| 4/3/2019 | | <0.003 | <0.003 | <0.003 | | | |
| 8/21/2019 | | | | | | <0.003 | <0.003 |
| 9/24/2019 | | | | | 0.0035 | | |
| 9/25/2019 | <0.003 | | | <0.003 | | | |
| 9/26/2019 | | 0.00056 (J) | <0.003 | | | | |
| 2/11/2020 | <0.003 | <0.003 | <0.003 | | | | |
| 2/12/2020 | | | | <0.003 | 0.0015 (J) | <0.003 | <0.003 |
| 3/24/2020 | <0.003 | <0.003 | <0.003 | <0.003 | 0.0017 (J) | | <0.003 |
| 3/25/2020 | | | | | | 0.0014 (J) | |
| 9/23/2020 | <0.003 | <0.003 | <0.003 | | | | |
| 9/24/2020 | | | | <0.003 | 0.0047 | <0.003 | <0.003 |
| 2/9/2021 | | <0.003 | <0.003 | 0.00032 (J) | 0.0013 (J) | | |
| 2/10/2021 | | | | | | <0.003 | <0.003 |
| 3/3/2021 | <0.003 | <0.003 | 0.00067 (J) | <0.003 | | | |
| 3/4/2021 | | | | | 0.0014 (J) | <0.003 | <0.003 |
| 8/26/2021 | | | <0.003 | | | <0.003 | |
| 8/27/2021 | <0.003 | <0.003 | | <0.003 | | | |
| 9/1/2021 | | | | | <0.003 | | |
| 9/3/2021 | | | | | | | <0.003 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 2/8/2022 | | | | | | <0.003 | <0.003 |
| 2/9/2022 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | |
| 8/30/2022 | <0.003 | <0.003 | <0.003 | | 0.0046 | | |
| 8/31/2022 | | | | <0.003 | | <0.003 | <0.003 |
| 2/7/2023 | 0.0013 (J) | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | |
| 2/8/2023 | | | | | | | <0.003 |
| 8/15/2023 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 |
| 2/20/2024 | <0.003 | <0.003 | | <0.003 | 0.0013 (J) | <0.003 | <0.003 |
| 2/23/2024 | | | <0.003 | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 5/1/2007 | | | | <0.003 | |
| 9/11/2007 | | | | <0.003 | |
| 3/20/2008 | | | | <0.003 | |
| 8/27/2008 | | | | <0.003 | |
| 3/3/2009 | | | | <0.003 | |
| 11/18/2009 | | | | <0.003 | |
| 3/3/2010 | | | | <0.003 | |
| 9/8/2010 | | | | <0.003 | |
| 3/10/2011 | | | | <0.003 | |
| 9/8/2011 | | | | <0.003 | |
| 3/5/2012 | | | | <0.003 | |
| 9/10/2012 | | | | <0.003 | |
| 2/6/2013 | | | | <0.003 | |
| 8/12/2013 | | | | <0.003 | |
| 2/5/2014 | | | | <0.003 | |
| 8/5/2014 | | | | <0.003 | |
| 2/4/2015 | | | | <0.003 | |
| 8/3/2015 | | | | <0.003 | |
| 2/16/2016 | | | | <0.003 | |
| 6/2/2016 | <0.003 | <0.003 | <0.003 | | |
| 6/9/2016 | | | | | <0.003 |
| 7/26/2016 | 0.0003 (J) | <0.003 | <0.003 | | |
| 8/2/2016 | | | | | <0.003 |
| 8/31/2016 | | | | <0.003 | |
| 9/14/2016 | <0.003 | <0.003 | <0.003 | | |
| 9/21/2016 | | | | | <0.003 |
| 11/2/2016 | <0.003 | <0.003 | | | |
| 11/4/2016 | | | <0.003 | | |
| 11/7/2016 | | | | | <0.003 |
| 11/28/2016 | | | | 0.0014 (J) | |
| 1/12/2017 | | <0.003 | <0.003 | | |
| 1/13/2017 | <0.003 | | | | |
| 1/19/2017 | | | | | <0.003 |
| 2/22/2017 | | | | <0.003 | <0.003 |
| 3/6/2017 | <0.003 | | | | |
| 3/7/2017 | | <0.003 | <0.003 | | |
| 5/1/2017 | <0.003 | <0.003 | | | |
| 5/2/2017 | | | <0.003 | | |
| 5/8/2017 | | | | <0.003 | <0.003 |
| 6/27/2017 | | <0.003 | <0.003 | | |
| 6/29/2017 | <0.003 | | | | |
| 7/5/2017 | | | | | <0.003 |
| 7/17/2017 | | | | <0.003 | |
| 10/16/2017 | | | | <0.003 | |
| 2/19/2018 | | | | <0.003 | |
| 3/29/2018 | <0.003 | <0.003 | <0.003 | | <0.003 |
| 8/6/2018 | | | | <0.003 | |
| 2/25/2019 | | | | <0.003 | |
| 2/27/2019 | | | | | <0.003 |
| 3/4/2019 | <0.003 | <0.003 | <0.003 | | |
| 4/3/2019 | <0.003 | <0.003 | <0.003 | | |
| 6/12/2019 | | | | <0.003 | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Antimony (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 8/19/2019 | | | | <0.003 | |
| 9/24/2019 | | <0.003 | <0.003 | | |
| 9/25/2019 | <0.003 | | | | |
| 10/8/2019 | | | | <0.003 | |
| 2/12/2020 | <0.003 | <0.003 | <0.003 | | |
| 2/13/2020 | | | | | <0.003 |
| 3/17/2020 | | | | <0.003 | |
| 3/20/2020 | | | | | <0.003 |
| 3/24/2020 | | <0.003 | <0.003 | | |
| 3/25/2020 | <0.003 | | | | |
| 8/26/2020 | | | | 0.00042 (J) | |
| 9/22/2020 | <0.003 | <0.003 | <0.003 | 0.00044 (J) | |
| 9/24/2020 | | | | | 0.0013 (J) |
| 2/8/2021 | | <0.003 | <0.003 | | |
| 2/9/2021 | <0.003 | | | | |
| 2/12/2021 | | | | | <0.003 |
| 3/2/2021 | | <0.003 | <0.003 | <0.003 | |
| 3/3/2021 | <0.003 | | | | <0.003 |
| 8/20/2021 | | | | <0.003 | <0.003 |
| 8/26/2021 | <0.003 | <0.003 | <0.003 | | |
| 2/8/2022 | | | | <0.003 | <0.003 |
| 2/10/2022 | | <0.003 | <0.003 | | |
| 2/11/2022 | <0.003 | | | | |
| 8/30/2022 | | <0.003 | <0.003 | <0.003 | |
| 8/31/2022 | <0.003 | | | | |
| 9/1/2022 | | | | | <0.003 |
| 2/7/2023 | | <0.003 | | <0.003 | |
| 2/8/2023 | | | | | <0.003 |
| 2/9/2023 | <0.003 | | <0.003 | | |
| 8/2/2023 | | | | | <0.003 |
| 8/15/2023 | <0.003 | <0.003 | <0.003 | <0.003 | |
| 2/20/2024 | 0.00061 (J) | <0.003 | <0.003 | 0.0026 (J) | |
| 2/22/2024 | | | | | <0.003 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 6/1/2016 | | 0.0021 | <0.005 | | | | <0.005 |
| 6/2/2016 | <0.005 | | | | <0.005 | <0.005 | |
| 7/25/2016 | | | <0.005 | | <0.005 | | <0.005 |
| 7/26/2016 | <0.005 | 0.0016 (J) | | | | <0.005 | |
| 9/13/2016 | | <0.005 | <0.005 | | | | |
| 9/14/2016 | | | | <0.005 | | | <0.005 |
| 9/15/2016 | <0.005 | | | | | <0.005 | |
| 9/19/2016 | | | | | <0.005 | | |
| 11/1/2016 | | <0.005 | | | <0.005 | <0.005 | <0.005 |
| 11/2/2016 | <0.005 | | | | | | |
| 11/4/2016 | | | <0.005 | 0.0017 (J) | | | |
| 12/15/2016 | | | | 0.0023 (J) | | | |
| 1/10/2017 | <0.005 | | | | | | |
| 1/11/2017 | | 0.0017 (J) | | | | <0.005 | <0.005 |
| 1/16/2017 | | | <0.005 | 0.0018 (J) | <0.005 | | |
| 2/21/2017 | | | | | <0.005 | | |
| 3/1/2017 | | | | | | | 0.0004 (J) |
| 3/2/2017 | | 0.0014 (J) | <0.005 | | | <0.005 | |
| 3/3/2017 | | | | 0.0016 (J) | | | |
| 3/8/2017 | <0.005 | | | | | | |
| 4/26/2017 | <0.005 | | | | <0.005 | <0.005 | <0.005 |
| 4/27/2017 | | 0.0018 (J) | <0.005 | | | | |
| 4/28/2017 | | | | 0.002 (J) | | | |
| 5/26/2017 | | | | 0.0005 (J) | | | |
| 6/27/2017 | | 0.0018 (J) | <0.005 | | | | |
| 6/28/2017 | | | | 0.0016 (J) | | 0.0007 (J) | 0.0011 (J) |
| 6/30/2017 | <0.005 | | | | <0.005 | | |
| 3/27/2018 | <0.005 | | <0.005 | | <0.005 | | |
| 3/28/2018 | | | | 0.0013 (J) | | <0.005 | <0.005 |
| 3/29/2018 | | 0.0017 (J) | | | | | |
| 6/5/2018 | | 0.0013 (J) | | | | | |
| 6/6/2018 | | | <0.005 | | | | |
| 6/7/2018 | | | | 0.00082 (J) | | <0.005 | |
| 6/8/2018 | <0.005 | | | | | | <0.005 |
| 6/11/2018 | | | | | <0.005 | | |
| 10/1/2018 | <0.005 | 0.0016 (J) | <0.005 | 0.0011 (J) | | <0.005 | <0.005 |
| 10/2/2018 | | | | | <0.005 | | |
| 2/26/2019 | <0.005 | | | | <0.005 | | |
| 2/27/2019 | | 0.0015 (J) | <0.005 | 0.001 (J) | | <0.005 | <0.005 |
| 3/28/2019 | | 0.00072 (J) | <0.005 | | | | |
| 3/29/2019 | <0.005 | | | 0.00063 (J) | | | |
| 4/1/2019 | | | | | <0.005 | <0.005 | <0.005 |
| 9/24/2019 | | 0.0014 (J) | <0.005 | <0.005 | | | |
| 9/25/2019 | <0.005 | | | | <0.005 | <0.005 | <0.005 |
| 2/10/2020 | | 0.0026 (J) | 0.0005 (J) | | | | |
| 2/11/2020 | | | | 0.0044 (J) | | | 0.0041 (J) |
| 2/12/2020 | <0.005 | | | | 0.0032 (J) | 0.0038 (J) | |
| 3/18/2020 | <0.005 | | <0.005 | | | | |
| 3/19/2020 | | 0.00095 (J) | | 0.00066 (J) | <0.005 | <0.005 | <0.005 |
| 9/23/2020 | | 0.0011 (J) | <0.005 | 0.001 (J) | | <0.005 | <0.005 |
| 9/24/2020 | | | | | <0.005 | | |
| 9/25/2020 | <0.005 | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 2/10/2021 | <0.005 | | | <0.005 | | 0.00094 (J) | 0.00078 (J) |
| 2/11/2021 | | | | | <0.005 | | |
| 2/12/2021 | | <0.005 | <0.005 | | | | |
| 3/1/2021 | | | | | <0.005 | | |
| 3/2/2021 | <0.005 | | | | | | |
| 3/3/2021 | | <0.005 | <0.005 | 0.00098 (J) | | <0.005 | <0.005 |
| 8/19/2021 | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 | |
| 8/27/2021 | | | | <0.005 | | | <0.005 |
| 2/9/2022 | | 0.0031 (J) | 0.0033 (J) | 0.0037 (J) | | 0.002 (J) | 0.0018 (J) |
| 2/10/2022 | 0.0016 (J) | | | | | | |
| 2/11/2022 | | | | | 0.0014 (J) | | |
| 8/30/2022 | | <0.005 | | 0.0027 (J) | | | |
| 8/31/2022 | <0.005 | | <0.005 | | <0.005 | 0.0028 (J) | <0.005 |
| 2/7/2023 | | <0.005 | <0.005 | <0.005 | | | |
| 2/8/2023 | <0.005 | | | | <0.005 | 0.003 (J) | 0.0024 (J) |
| 8/15/2023 | <0.005 | <0.005 | <0.005 | <0.005 | | <0.005 | |
| 8/16/2023 | | | | | <0.005 | | <0.005 |
| 2/20/2024 | | <0.005 | <0.005 | 0.0019 (J) | <0.005 | 0.0027 (J) | 0.0013 (J) |
| 2/23/2024 | <0.005 | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | <0.005 | <0.005 | 0.0011 (J) | <0.005 | | | |
| 6/9/2016 | | | | | <0.005 | 0.00094 (J) | |
| 8/1/2016 | <0.005 | <0.005 | 0.0009 (J) | <0.005 | | | |
| 8/2/2016 | | | | | <0.005 | <0.005 | |
| 8/30/2016 | | | | | | | <0.005 |
| 9/20/2016 | <0.005 | <0.005 | <0.005 | <0.005 | | | |
| 9/21/2016 | | | | | <0.005 | <0.005 | |
| 11/7/2016 | <0.005 | <0.005 | <0.005 | <0.005 | | <0.005 | |
| 11/8/2016 | | | | | <0.005 | | |
| 11/14/2016 | | | | | | | <0.005 |
| 1/18/2017 | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 | |
| 1/19/2017 | | | | <0.005 | | | |
| 2/21/2017 | <0.005 | <0.005 | | | | <0.005 | |
| 2/22/2017 | | | | <0.005 | <0.005 | | |
| 2/23/2017 | | | <0.005 | | | | |
| 2/24/2017 | | | | | | | <0.005 |
| 5/3/2017 | | <0.005 | | | | | |
| 5/5/2017 | | | | | <0.005 | <0.005 | |
| 5/8/2017 | <0.005 | | 0.0006 (J) | <0.005 | | | <0.005 |
| 6/30/2017 | | | <0.005 (*) | <0.005 (*) | | | |
| 7/5/2017 | | | | | <0.005 | | |
| 7/7/2017 | | | | | | 0.0007 (J) | |
| 7/10/2017 | <0.005 | <0.005 | | | | | |
| 7/11/2017 | | | | | | | <0.005 |
| 10/10/2017 | | | | | | | 0.0007 (J) |
| 3/29/2018 | | | 0.0006 (J) | <0.005 | | | |
| 3/30/2018 | <0.005 | <0.005 | | | <0.005 | 0.00069 (J) | |
| 4/2/2018 | | | | | | | <0.005 |
| 6/12/2018 | | | | <0.005 | <0.005 | 0.00075 (J) | |
| 6/13/2018 | <0.005 | <0.005 | <0.005 | | | | |
| 9/19/2018 | | | | | | | 0.00072 (J) |
| 10/2/2018 | <0.005 | <0.005 | <0.005 | <0.005 | | | |
| 10/3/2018 | | | | | <0.005 | 0.0007 (J) | |
| 2/27/2019 | <0.005 | <0.005 | 0.00069 (J) | <0.005 | <0.005 | <0.005 | |
| 4/1/2019 | | | <0.005 | <0.005 | <0.005 | | |
| 4/2/2019 | <0.005 | <0.005 | | | | <0.005 | |
| 8/20/2019 | | | | | | | <0.005 |
| 9/25/2019 | <0.005 | <0.005 | | | | | |
| 9/26/2019 | | | 0.00058 (J) | <0.005 | <0.005 | 0.00057 (J) | |
| 10/8/2019 | | | | | | | <0.005 |
| 2/13/2020 | <0.005 | <0.005 | 0.00055 (J) | <0.005 | <0.005 | 0.00065 (J) | |
| 3/17/2020 | | | | | | | <0.005 |
| 3/19/2020 | | <0.005 | | | <0.005 | 0.00051 (J) | |
| 3/20/2020 | <0.005 | | 0.00042 (J) | <0.005 | | | |
| 8/27/2020 | | | | | | | <0.005 |
| 9/22/2020 | | | | | | | <0.005 |
| 9/24/2020 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 2/10/2021 | <0.005 | <0.005 | <0.005 | <0.005 | | | |
| 2/11/2021 | | | | | <0.005 | | |
| 2/12/2021 | | | | | | <0.005 | |
| 3/1/2021 | | | | | | | <0.005 |
| 3/2/2021 | | <0.005 | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 3/3/2021 | <0.005 | | <0.005 | <0.005 | <0.005 | <0.005 | |
| 8/19/2021 | | <0.005 | | | | | <0.005 |
| 8/20/2021 | <0.005 | | <0.005 | <0.005 | <0.005 | <0.005 | |
| 2/8/2022 | | | | 0.0019 (J) | 0.0021 (J) | 0.0042 (J) | 0.0027 (J) |
| 2/10/2022 | 0.0028 (J) | 0.0032 (J) | 0.004 (J) | | | | |
| 8/31/2022 | <0.005 | <0.005 | | | | | <0.005 |
| 9/1/2022 | | | <0.005 | <0.005 | <0.005 | <0.005 | |
| 2/8/2023 | | | | | | | <0.005 |
| 2/9/2023 | 0.0024 (J) | 0.0022 (J) | <0.005 | <0.005 | <0.005 | <0.005 | |
| 8/15/2023 | | | | | | | <0.005 |
| 8/16/2023 | | | | | <0.005 | <0.005 | |
| 8/17/2023 | <0.005 | <0.005 | <0.005 | <0.005 | | | |
| 2/20/2024 | | | | | | | <0.005 |
| 2/21/2024 | | | <0.005 | <0.005 | <0.005 | <0.005 | |
| 2/22/2024 | <0.005 | <0.005 | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (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 | | |
| 10/11/2017 | | | | | | 0.0009 (J) | |
| 10/12/2017 | | | | | | | <0.005 |
| 11/20/2017 | | | | | | <0.005 | <0.005 |
| 1/10/2018 | | | | | | | <0.005 |
| 1/11/2018 | | | | | | <0.005 | |
| 2/19/2018 | | | | | | | <0.005 |
| 2/20/2018 | | | | | | <0.005 | |
| 3/28/2018 | <0.005 | <0.005 | 0.00061 (J) | | | | |
| 3/29/2018 | | | | <0.005 | 0.0015 (J) | | |
| 4/3/2018 | | | | | | <0.005 | <0.005 |
| 6/5/2018 | | | | | 0.0013 (J) | | |
| 6/6/2018 | | | | <0.005 | | | |
| 6/7/2018 | | 0.00066 (J) | | | | | |
| 6/11/2018 | <0.005 | | <0.005 | | | | |
| 6/28/2018 | | | | | | <0.005 | <0.005 |
| 8/7/2018 | | | | | | <0.005 | <0.005 |
| 9/24/2018 | | | | | | <0.005 | <0.005 |
| 9/25/2018 | <0.005 | <0.005 | <0.005 | <0.005 | 0.0022 (J) | | |
| 3/5/2019 | <0.005 | | <0.005 | <0.005 | 0.0013 (J) | | |
| 3/6/2019 | | <0.005 | | | | | |
| 4/2/2019 | <0.005 | | | | 0.00096 (J) | | |
| 4/3/2019 | | <0.005 | <0.005 | <0.005 | | | |
| 8/21/2019 | | | | | | 0.00058 (J) | <0.005 |
| 9/24/2019 | | | | | 0.0026 (J) | | |
| 9/25/2019 | <0.005 | | | <0.005 | | | |
| 9/26/2019 | | <0.005 | <0.005 | | | | |
| 10/9/2019 | | | | | | 0.00063 (J) | <0.005 |
| 2/11/2020 | 0.0022 (J) | 0.0014 (J) | 0.0026 (J) | | | | |
| 2/12/2020 | | | | <0.005 | 0.0025 (J) | 0.00058 (J) | 0.0034 (J) |
| 3/24/2020 | <0.005 | <0.005 | <0.005 | <0.005 | 0.0013 (J) | | <0.005 |
| 3/25/2020 | | | | | | 0.0012 (J) | |
| 9/23/2020 | <0.005 | <0.005 | <0.005 | | | | |
| 9/24/2020 | | | | <0.005 | 0.0014 (J) | <0.005 | <0.005 |
| 2/9/2021 | | <0.005 | <0.005 | <0.005 | 0.001 (J) | | |
| 2/10/2021 | | | | | | <0.005 | <0.005 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 3/3/2021 | <0.005 | <0.005 | <0.005 | <0.005 | | | |
| 3/4/2021 | | | | | 0.00078 (J) | <0.005 | <0.005 |
| 8/26/2021 | | | <0.005 | | | <0.005 | |
| 8/27/2021 | <0.005 | <0.005 | | <0.005 | | | |
| 9/1/2021 | | | | | <0.005 | | |
| 9/3/2021 | | | | | | | <0.005 |
| 2/8/2022 | | | | | | 0.0034 (J) | 0.003 (J) |
| 2/9/2022 | 0.0024 (J) | 0.0022 (J) | 0.0024 (J) | 0.0021 (J) | 0.0036 (J) | | |
| 8/30/2022 | <0.005 | <0.005 | <0.005 | | 0.0022 (J) | | |
| 8/31/2022 | | | | <0.005 | | 0.0029 (J) | <0.005 |
| 2/7/2023 | <0.005 | <0.005 | <0.005 | <0.005 | 0.0028 (J) | 0.0029 (J) | |
| 2/8/2023 | | | | | | | <0.005 |
| 8/15/2023 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 2/20/2024 | <0.005 | <0.005 | | <0.005 | <0.005 | 0.002 (J) | 0.0012 (J) |
| 2/23/2024 | | | <0.005 | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 5/1/2007 | | | | <0.005 | |
| 9/11/2007 | | | | <0.005 | |
| 3/20/2008 | | | | <0.005 | |
| 8/27/2008 | | | | <0.005 | |
| 3/3/2009 | | | | <0.005 | |
| 11/18/2009 | | | | <0.005 | |
| 3/3/2010 | | | | <0.005 | |
| 9/8/2010 | | | | <0.005 | |
| 3/10/2011 | | | | <0.005 | |
| 9/8/2011 | | | | <0.005 | |
| 3/5/2012 | | | | <0.005 | |
| 9/10/2012 | | | | <0.005 | |
| 2/6/2013 | | | | <0.005 | |
| 8/12/2013 | | | | <0.005 | |
| 2/5/2014 | | | | <0.005 | |
| 8/5/2014 | | | | <0.005 | |
| 2/4/2015 | | | | <0.005 | |
| 8/3/2015 | | | | <0.005 | |
| 2/16/2016 | | | | <0.005 | |
| 6/2/2016 | <0.005 | 0.00071 (J) | <0.005 | | |
| 6/9/2016 | | | | | <0.005 |
| 7/26/2016 | <0.005 | 0.001 (J) | <0.005 | | |
| 8/2/2016 | | | | | <0.005 |
| 8/31/2016 | | | | <0.005 | |
| 9/14/2016 | <0.005 | <0.005 | <0.005 | | |
| 9/21/2016 | | | | | <0.005 |
| 11/2/2016 | <0.005 | <0.005 | | | |
| 11/4/2016 | | | <0.005 | | |
| 11/7/2016 | | | | | <0.005 |
| 11/28/2016 | | | | <0.005 | |
| 1/12/2017 | | <0.005 | <0.005 | | |
| 1/13/2017 | <0.005 | | | | |
| 1/19/2017 | | | | | <0.005 |
| 2/22/2017 | | | | <0.005 | <0.005 |
| 3/6/2017 | <0.005 | | | | |
| 3/7/2017 | | 0.0012 (J) | <0.005 | | |
| 5/1/2017 | <0.005 | <0.005 | | | |
| 5/2/2017 | | | <0.005 | | |
| 5/8/2017 | | | | <0.005 | <0.005 |
| 6/27/2017 | | 0.0019 (J) | <0.005 | | |
| 6/29/2017 | <0.005 | | | | |
| 7/5/2017 | | | | | <0.005 |
| 7/17/2017 | | | | <0.005 | |
| 10/16/2017 | | | | <0.005 | |
| 2/19/2018 | | | | <0.005 | |
| 3/29/2018 | <0.005 | 0.0006 (J) | <0.005 | | <0.005 |
| 6/6/2018 | | 0.0013 (J) | | | |
| 6/7/2018 | 0.00059 (J) | | <0.005 | | |
| 6/11/2018 | | | | | <0.005 |
| 8/6/2018 | | | | <0.005 | |
| 9/26/2018 | <0.005 | 0.0014 (J) | <0.005 | | |
| 10/2/2018 | | | | | <0.005 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 2/25/2019 | | | | <0.005 | |
| 2/27/2019 | | | | | <0.005 |
| 3/4/2019 | <0.005 | <0.005 | <0.005 | | |
| 4/1/2019 | | | | | <0.005 |
| 4/3/2019 | <0.005 | <0.005 | <0.005 | | |
| 6/12/2019 | | | | 0.00038 (J) | |
| 8/19/2019 | | | | 0.00095 (J) | |
| 9/24/2019 | | 0.00043 (J) | <0.005 | | |
| 9/25/2019 | <0.005 | | | | <0.005 |
| 10/8/2019 | | | | <0.005 | |
| 2/12/2020 | <0.005 | 0.0046 (J) | 0.002 (J) | | |
| 2/13/2020 | | | | | <0.005 |
| 3/17/2020 | | | | <0.005 | |
| 3/20/2020 | | | | | <0.005 |
| 3/24/2020 | | 0.00065 (J) | <0.005 | | |
| 3/25/2020 | <0.005 | | | | |
| 8/26/2020 | | | | <0.005 | |
| 9/22/2020 | <0.005 | 0.001 (J) | <0.005 | <0.005 | |
| 9/24/2020 | | | | | <0.005 |
| 2/8/2021 | | <0.005 | <0.005 | | |
| 2/9/2021 | <0.005 | | | | |
| 2/12/2021 | | | | | <0.005 |
| 3/2/2021 | | <0.005 | <0.005 | <0.005 | |
| 3/3/2021 | <0.005 | | | | <0.005 |
| 8/20/2021 | | | | <0.005 | <0.005 |
| 8/26/2021 | <0.005 | 0.0016 (J) | <0.005 | | |
| 2/8/2022 | | | | 0.0033 (J) | 0.0033 (J) |
| 2/10/2022 | | 0.004 (J) | 0.0016 (J) | | |
| 2/11/2022 | 0.0014 (J) | | | | |
| 8/30/2022 | | 0.0031 (J) | <0.005 | 0.0024 (J) | |
| 8/31/2022 | <0.005 | | | | |
| 9/1/2022 | | | | | <0.005 |
| 2/7/2023 | | 0.003 (J) | | <0.005 | |
| 2/8/2023 | | | | | <0.005 |
| 2/9/2023 | <0.005 | | <0.005 | | |
| 8/2/2023 | | | | | <0.005 |
| 8/15/2023 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 2/20/2024 | <0.005 | 0.003 (J) | <0.005 | 0.0015 (J) | |
| 2/22/2024 | | | | | <0.005 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 6/1/2016 | | 0.008 | 0.012 | | | | 0.0038 |
| 6/2/2016 | 0.0081 | | | | 0.0064 | 0.01 | |
| 7/25/2016 | | | 0.0091 (J) | | 0.0071 (J) | | 0.0031 (J) |
| 7/26/2016 | 0.0082 (J) | 0.006 (J) | | | | 0.0088 (J) | |
| 9/13/2016 | | 0.0084 (J) | 0.008 (J) | | | | |
| 9/14/2016 | | | | 0.0037 (J) | | | 0.0027 (J) |
| 9/15/2016 | 0.0087 (J) | | | | | 0.009 (J) | |
| 9/19/2016 | | | | | 0.0069 (J) | | |
| 11/1/2016 | | 0.0062 (J) | | | 0.007 (J) | 0.0079 (J) | 0.0027 (J) |
| 11/2/2016 | 0.0082 (J) | | | | | | |
| 11/4/2016 | | | 0.0067 (J) | 0.0059 (J) | | | |
| 12/15/2016 | | | | 0.0056 (J) | | | |
| 1/10/2017 | 0.0086 (J) | | | | | | |
| 1/11/2017 | | 0.0069 (J) | | | | 0.0075 (J) | 0.0036 (J) |
| 1/16/2017 | | | 0.0096 (J) | 0.0049 (J) | 0.0071 (J) | | |
| 2/21/2017 | | | | | 0.0077 (J) | | |
| 3/1/2017 | | | | | | | 0.0036 (J) |
| 3/2/2017 | | 0.0071 (J) | 0.0112 | | | 0.009 (J) | |
| 3/3/2017 | | | | 0.0046 (J) | | | |
| 3/8/2017 | 0.0088 (J) | | | | | | |
| 4/26/2017 | 0.0085 (J) | | | | 0.0074 (J) | 0.0078 (J) | 0.0038 (J) |
| 4/27/2017 | | 0.0064 (J) | 0.0106 | | | | |
| 4/28/2017 | | | | 0.0039 (J) | | | |
| 5/26/2017 | | | | 0.0034 (J) | | | |
| 6/27/2017 | | 0.0054 (J) | 0.0092 (J) | | | | |
| 6/28/2017 | | | | 0.003 (J) | | 0.0071 (J) | 0.004 (J) |
| 6/30/2017 | 0.0081 (J) | | | | 0.0076 (J) | | |
| 3/27/2018 | <0.01 | | <0.01 | | <0.01 | | |
| 3/28/2018 | | | | <0.01 | | <0.01 | <0.01 |
| 3/29/2018 | | <0.01 | | | | | |
| 6/5/2018 | | 0.0069 (J) | | | | | |
| 6/6/2018 | | | 0.0082 (J) | | | | |
| 6/7/2018 | | | | 0.0037 (J) | | 0.0068 (J) | |
| 6/8/2018 | 0.007 (J) | | | | | | 0.0034 (J) |
| 6/11/2018 | | | | | 0.007 (J) | | |
| 10/1/2018 | 0.007 (J) | 0.0062 (J) | 0.0084 (J) | 0.0038 (J) | | 0.0065 (J) | 0.0034 (J) |
| 10/2/2018 | | | | | 0.0069 (J) | | |
| 2/26/2019 | 0.0067 (J) | | | | 0.007 (J) | | |
| 2/27/2019 | | 0.0074 (J) | 0.008 (J) | 0.0035 (J) | | 0.0059 (J) | 0.0034 (J) |
| 3/28/2019 | | 0.0082 (J) | 0.0082 (J) | | | | |
| 3/29/2019 | 0.0066 (J) | | | 0.0039 (J) | | | |
| 4/1/2019 | | | | | 0.0072 (J) | 0.0064 (J) | 0.003 (J) |
| 9/24/2019 | | 0.0072 (J) | 0.0086 (J) | 0.0038 (J) | | | |
| 9/25/2019 | 0.0071 (J) | | | | 0.0066 (J) | 0.0059 (J) | 0.005 (J) |
| 2/10/2020 | | 0.0066 (J) | 0.0091 (J) | | | | |
| 2/11/2020 | | | | 0.0036 (J) | | | 0.0031 (J) |
| 2/12/2020 | 0.007 (J) | | | | 0.0073 (J) | 0.0062 (J) | |
| 3/18/2020 | 0.0076 (J) | | 0.0084 (J) | | | | |
| 3/19/2020 | | 0.0076 (J) | | 0.0036 (J) | 0.0074 (J) | 0.0072 (J) | 0.0029 (J) |
| 9/23/2020 | | 0.0068 (J) | 0.0079 (J) | 0.0039 (J) | | 0.0051 (J) | 0.0039 (J) |
| 9/24/2020 | | | | | 0.0062 (J) | | |
| 9/25/2020 | 0.0073 (J) | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 2/10/2021 | 0.0078 (J) | | | 0.0032 (J) | | 0.0059 (J) | 0.0029 (J) |
| 2/11/2021 | | | | | 0.0077 (J) | | |
| 2/12/2021 | | 0.0057 (J) | 0.009 (J) | | | | |
| 3/1/2021 | | | | | 0.007 | | |
| 3/2/2021 | 0.0076 | | | | | | |
| 3/3/2021 | | 0.0068 | 0.0094 | 0.0041 (J) | | 0.0064 | 0.0031 (J) |
| 8/19/2021 | 0.0077 | 0.0065 | 0.0079 | | 0.0071 | 0.0052 | |
| 8/27/2021 | | | | 0.003 (J) | | | 0.0039 (J) |
| 2/9/2022 | | 0.0067 | 0.0088 | 0.0029 (J) | | 0.0051 | 0.0031 (J) |
| 2/10/2022 | 0.0088 | | | | | | |
| 2/11/2022 | | | | | 0.0077 | | |
| 8/30/2022 | | 0.0066 | | 0.003 (J) | | | |
| 8/31/2022 | 0.0075 | | 0.0074 | | 0.0068 | 0.0048 (J) | 0.003 (J) |
| 2/7/2023 | | 0.14 | 0.21 | 0.0026 (J) | | | |
| 2/8/2023 | 0.0089 | | | | 0.0066 | 0.0048 (J) | 0.0029 (J) |
| 8/15/2023 | 0.0079 | 0.0059 | 0.0078 | 0.0031 (J) | | 0.0046 (J) | |
| 8/16/2023 | | | | | 0.0066 | | 0.0037 (J) |
| 2/20/2024 | | 0.0062 | 0.004 (J) | 0.0044 (J) | 0.0064 | 0.0045 (J) | 0.0032 (J) |
| 2/23/2024 | 0.0096 | | | | | | |

# Time Series

Constituent: Barium (mg/L)  Analysis Run 5/2/2024 9:49 AM

Plant Yates  Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | 0.068 | 0.029 | 0.081 | 0.12 | | | |
| 6/9/2016 | | | | | 0.1 | 0.22 | |
| 8/1/2016 | 0.0688 | 0.0316 | 0.0838 | 0.115 | | | |
| 8/2/2016 | | | | | 0.0836 | 0.212 | |
| 8/30/2016 | | | | | | | 0.0413 |
| 9/20/2016 | 0.0663 | 0.0298 | 0.0687 | 0.108 | | | |
| 9/21/2016 | | | | | 0.0889 | 0.228 | |
| 11/7/2016 | 0.065 | 0.0289 | 0.0639 | 0.102 | | 0.214 | |
| 11/8/2016 | | | | | 0.0886 | | |
| 11/14/2016 | | | | | | | 0.0383 |
| 1/18/2017 | 0.0625 | 0.0278 | 0.0645 | | 0.0862 | 0.213 | |
| 1/19/2017 | | | | 0.102 | | | |
| 2/21/2017 | 0.0655 | 0.0282 | | | | 0.222 | |
| 2/22/2017 | | | | 0.106 | 0.0915 | | |
| 2/23/2017 | | | 0.0728 | | | | |
| 2/24/2017 | | | | | | | 0.0351 |
| 5/3/2017 | | 0.0282 | | | | | |
| 5/5/2017 | | | | | 0.0891 | 0.219 | |
| 5/8/2017 | 0.0699 | | 0.0721 | 0.102 | | | 0.0251 |
| 6/30/2017 | | | 0.0666 | 0.0963 | | | |
| 7/5/2017 | | | | | 0.0862 | | |
| 7/7/2017 | | | | | | 0.205 | |
| 7/10/2017 | 0.0691 | 0.0274 | | | | | |
| 7/11/2017 | | | | | | | 0.0233 |
| 10/10/2017 | | | | | | | 0.0207 |
| 3/29/2018 | | | 0.062 | 0.097 | | | |
| 3/30/2018 | 0.063 | 0.026 | | | 0.087 | 0.2 | |
| 4/2/2018 | | | | | | | 0.022 |
| 6/12/2018 | | | | 0.095 | 0.088 | 0.21 | |
| 6/13/2018 | 0.064 | 0.026 | 0.063 | | | | |
| 9/19/2018 | | | | | | | 0.023 |
| 10/2/2018 | 0.066 | 0.026 | 0.062 | 0.1 | | | |
| 10/3/2018 | | | | | 0.092 | 0.22 | |
| 2/27/2019 | 0.065 | 0.027 | 0.066 | 0.096 | 0.086 | 0.21 | |
| 4/1/2019 | | | 0.066 | 0.099 | 0.088 | | |
| 4/2/2019 | 0.065 | 0.027 | | | | 0.2 | |
| 8/20/2019 | | | | | | | 0.024 |
| 9/25/2019 | 0.063 | 0.026 | | | | | |
| 9/26/2019 | | | 0.065 | 0.099 | 0.087 | 0.18 | |
| 10/8/2019 | | | | | | | 0.025 |
| 2/13/2020 | 0.06 | 0.025 | 0.063 | 0.097 | 0.089 | 0.21 | |
| 3/17/2020 | | | | | | | 0.035 |
| 3/19/2020 | | 0.027 | | | 0.089 | 0.2 | |
| 3/20/2020 | 0.063 | | 0.062 | 0.095 | | | |
| 8/27/2020 | | | | | | | 0.027 |
| 9/22/2020 | | | | | | | 0.026 |
| 9/24/2020 | 0.058 | 0.025 | 0.069 | 0.087 | 0.079 | 0.18 | |
| 2/10/2021 | 0.06 | 0.031 | 0.08 | 0.088 | | | |
| 2/11/2021 | | | | | 0.078 | | |
| 2/12/2021 | | | | | | 0.057 | |
| 3/1/2021 | | | | | | | 0.029 |
| 3/2/2021 | | 0.031 | | | | | |

# Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 3/3/2021 | 0.064 | | 0.08 | 0.075 | 0.077 | 0.25 | |
| 8/19/2021 | | 0.023 | | | | | 0.029 |
| 8/20/2021 | 0.063 | | 0.083 | 0.082 | 0.079 | 0.24 | |
| 2/8/2022 | | | | 0.068 | 0.083 | 0.2 | 0.03 |
| 2/10/2022 | 0.063 | 0.027 | 0.079 | | | | |
| 8/31/2022 | 0.057 | 0.024 | | | | | 0.029 |
| 9/1/2022 | | | 0.076 | 0.049 | 0.068 | 0.2 | |
| 2/8/2023 | | | | | | | 0.031 |
| 2/9/2023 | 0.058 | 0.028 | 0.076 | 0.049 | 0.07 | 0.22 | |
| 8/15/2023 | | | | | | | 0.032 |
| 8/16/2023 | | | | | 0.066 | 0.21 | |
| 8/17/2023 | 0.061 | 0.025 | 0.069 | 0.051 | | | |
| 2/20/2024 | | | | | | | 0.031 |
| 2/21/2024 | | | 0.06 | 0.047 | 0.062 | 0.21 | |
| 2/22/2024 | 0.057 | 0.025 | | | | | |

# Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 6/6/2016 | | 0.028 | 0.019 | | | | |
| 6/7/2016 | 0.012 | | | 0.014 | 0.0058 | | |
| 7/27/2016 | 0.0126 | 0.0294 | 0.0167 | 0.0141 | | | |
| 7/28/2016 | | | | | 0.0068 (J) | | |
| 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 | | |
| 10/11/2017 | | | | | | 0.0092 (J) | |
| 10/12/2017 | | | | | | | 0.0328 |
| 11/20/2017 | | | | | | 0.0081 (J) | 0.0671 |
| 1/10/2018 | | | | | | | 0.0656 |
| 1/11/2018 | | | | | | 0.0077 (J) | |
| 2/19/2018 | | | | | | | 0.0598 |
| 2/20/2018 | | | | | | <0.01 | |
| 3/28/2018 | 0.014 | 0.024 | 0.021 | | | | |
| 3/29/2018 | | | | 0.014 | <0.01 | | |
| 4/3/2018 | | | | | | <0.01 | 0.045 |
| 6/5/2018 | | | | | 0.011 | | |
| 6/6/2018 | | | | 0.015 | | | |
| 6/7/2018 | | 0.023 | | | | | |
| 6/11/2018 | 0.013 | | 0.019 | | | | |
| 6/28/2018 | | | | | | 0.0078 (J) | 0.047 |
| 8/7/2018 | | | | | | 0.0078 (J) | 0.048 |
| 9/24/2018 | | | | | | 0.0071 (J) | 0.042 |
| 9/25/2018 | 0.014 | 0.023 | 0.019 | 0.015 | 0.011 | | |
| 3/5/2019 | 0.015 | | 0.02 | 0.016 | 0.011 | | |
| 3/6/2019 | | 0.024 | | | | | |
| 4/2/2019 | 0.016 | | | | 0.011 | | |
| 4/3/2019 | | 0.025 | 0.017 | 0.018 | | | |
| 8/21/2019 | | | | | | 0.015 | 0.035 |
| 9/24/2019 | | | | | 0.011 | | |
| 9/25/2019 | 0.015 | | | 0.014 | | | |
| 9/26/2019 | | 0.021 | 0.017 | | | | |
| 10/9/2019 | | | | | | 0.013 | 0.036 |
| 2/11/2020 | 0.015 | 0.022 | 0.019 | | | | |
| 2/12/2020 | | | | 0.014 | 0.011 | 0.011 | 0.035 |
| 3/24/2020 | 0.015 | 0.021 | 0.017 | 0.015 | 0.011 | | 0.033 |
| 3/25/2020 | | | | | | 0.014 | |
| 9/23/2020 | 0.015 | 0.021 | 0.016 | | | | |
| 9/24/2020 | | | | 0.015 | 0.01 | 0.016 | 0.028 |
| 2/9/2021 | | 0.023 | 0.017 | 0.015 | 0.011 | | |
| 2/10/2021 | | | | | | 0.027 | 0.032 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 3/3/2021 | 0.017 | 0.023 | 0.017 | 0.015 | | | |
| 3/4/2021 | | | | | 0.011 | 0.028 | 0.032 |
| 8/26/2021 | | | 0.015 | | | 0.038 | |
| 8/27/2021 | 0.016 | 0.02 | | 0.013 | | | |
| 9/1/2021 | | | | | 0.0099 | | |
| 9/3/2021 | | | | | | | 0.035 |
| 2/8/2022 | | | | | | 0.041 | 0.039 |
| 2/9/2022 | 0.017 | 0.021 | 0.014 | 0.014 | 0.011 | | |
| 8/30/2022 | 0.017 | 0.017 | 0.012 | | 0.0085 | | |
| 8/31/2022 | | | | 0.011 | | 0.035 | 0.035 |
| 2/7/2023 | 0.017 | 0.019 | 0.012 | 0.014 | 0.01 | 0.03 | |
| 2/8/2023 | | | | | | | 0.037 |
| 8/15/2023 | 0.016 | 0.02 | 0.012 | 0.012 | 0.0075 | 0.031 | 0.034 |
| 2/20/2024 | 0.017 | 0.02 | | 0.013 | 0.0065 | 0.029 | 0.033 |
| 2/23/2024 | | | 0.013 | | | | |

# Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 5/1/2007 | | | | 0.032 | |
| 9/11/2007 | | | | 0.017 | |
| 3/20/2008 | | | | 0.025 | |
| 8/27/2008 | | | | 0.041 | |
| 3/3/2009 | | | | 0.053 | |
| 11/18/2009 | | | | 0.05 | |
| 3/3/2010 | | | | 0.061 | |
| 9/8/2010 | | | | 0.071 | |
| 3/10/2011 | | | | 0.057 | |
| 9/8/2011 | | | | 0.057 | |
| 3/5/2012 | | | | 0.061 | |
| 9/10/2012 | | | | 0.055 | |
| 2/6/2013 | | | | 0.061 | |
| 8/12/2013 | | | | 0.055 | |
| 2/5/2014 | | | | 0.063 | |
| 8/5/2014 | | | | 0.038 | |
| 2/4/2015 | | | | 0.039 | |
| 8/3/2015 | | | | 0.031 | |
| 2/16/2016 | | | | 0.045 | |
| 6/2/2016 | 0.013 | 0.0084 | 0.019 | | |
| 6/9/2016 | | | | | 0.082 |
| 7/26/2016 | 0.0158 | 0.01 | 0.0179 | | |
| 8/2/2016 | | | | | 0.0781 |
| 8/31/2016 | | | | 0.0542 | |
| 9/14/2016 | 0.0143 | 0.0085 (J) | 0.0181 | | |
| 9/21/2016 | | | | | 0.0782 |
| 11/2/2016 | 0.0148 | 0.0091 (J) | | | |
| 11/4/2016 | | | 0.0165 | | |
| 11/7/2016 | | | | | 0.0712 |
| 11/28/2016 | | | | 0.0529 | |
| 1/12/2017 | | 0.0089 (J) | 0.0199 | | |
| 1/13/2017 | 0.0146 | | | | |
| 1/19/2017 | | | | | 0.0689 |
| 2/22/2017 | | | | 0.0607 | 0.0741 |
| 3/6/2017 | 0.0141 | | | | |
| 3/7/2017 | | 0.009 (J) | 0.0196 | | |
| 5/1/2017 | 0.0149 | 0.0083 (J) | | | |
| 5/2/2017 | | | 0.0202 | | |
| 5/8/2017 | | | | 0.065 | 0.0725 |
| 6/27/2017 | | 0.0074 (J) | 0.0184 | | |
| 6/29/2017 | 0.0154 | | | | |
| 7/5/2017 | | | | | 0.0677 |
| 7/17/2017 | | | | 0.06 | |
| 10/16/2017 | | | | 0.0542 | |
| 2/19/2018 | | | | 0.0533 | |
| 3/29/2018 | 0.014 | <0.01 | 0.021 | | 0.055 |
| 6/6/2018 | | 0.008 (J) | | | |
| 6/7/2018 | 0.014 | | 0.019 | | |
| 6/11/2018 | | | | | 0.068 |
| 8/6/2018 | | | | 0.044 | |
| 9/26/2018 | 0.02 | 0.0075 (J) | 0.019 | | |
| 10/2/2018 | | | | | 0.067 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 2/25/2019 | | | | 0.045 | |
| 2/27/2019 | | | | | 0.067 |
| 3/4/2019 | 0.016 | 0.0077 (J) | 0.019 | | |
| 4/1/2019 | | | | | 0.063 |
| 4/3/2019 | 0.017 | 0.0087 (J) | 0.023 | | |
| 6/12/2019 | | | | 0.063 | |
| 8/19/2019 | | | | 0.065 | |
| 9/24/2019 | | 0.0075 (J) | 0.019 | | |
| 9/25/2019 | 0.015 | | | | 0.061 |
| 10/8/2019 | | | | 0.058 | |
| 2/12/2020 | 0.012 | 0.0079 (J) | 0.021 | | |
| 2/13/2020 | | | | | 0.053 |
| 3/17/2020 | | | | 0.047 | |
| 3/20/2020 | | | | | 0.057 |
| 3/24/2020 | | 0.0076 (J) | 0.021 | | |
| 3/25/2020 | 0.016 | | | | |
| 8/26/2020 | | | | 0.044 | |
| 9/22/2020 | 0.013 | 0.0076 (J) | 0.019 | 0.045 | |
| 9/24/2020 | | | | | 0.056 |
| 2/8/2021 | | 0.0079 (J) | 0.02 | | |
| 2/9/2021 | 0.013 | | | | |
| 2/12/2021 | | | | | 0.21 |
| 3/2/2021 | | 0.014 | 0.019 | 0.039 | |
| 3/3/2021 | 0.014 | | | | 0.059 |
| 8/20/2021 | | | | 0.036 | 0.057 |
| 8/26/2021 | 0.012 | 0.0092 | 0.019 | | |
| 2/8/2022 | | | | 0.037 | 0.057 |
| 2/10/2022 | | 0.0084 | 0.02 | | |
| 2/11/2022 | 0.013 | | | | |
| 8/30/2022 | | 0.0079 | 0.017 | 0.031 | |
| 8/31/2022 | 0.013 | | | | |
| 9/1/2022 | | | | | 0.057 |
| 2/7/2023 | | 0.0075 | | 0.034 | |
| 2/8/2023 | | | | | 0.098 |
| 2/9/2023 | 0.014 | | 0.019 | | |
| 8/2/2023 | | | | | 0.1 |
| 8/15/2023 | 0.011 | 0.0074 | 0.018 | 0.03 | |
| 2/20/2024 | 0.014 | 0.0078 | 0.019 | 0.035 | |
| 2/22/2024 | | | | | 0.081 |

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 6/1/2016 | | <0.0005 | <0.0005 | | | | <0.0005 |
| 6/2/2016 | <0.0005 | | | | <0.0005 | <0.0005 | |
| 7/25/2016 | | | <0.0005 | | <0.0005 | | <0.0005 |
| 7/26/2016 | 0.0002 (J) | <0.0005 | | | | <0.0005 | |
| 9/13/2016 | | <0.0005 | <0.0005 | | | | |
| 9/14/2016 | | | | <0.0005 | | | <0.0005 |
| 9/15/2016 | 0.0002 (J) | | | | | <0.0005 | |
| 9/19/2016 | | | | | <0.0005 | | |
| 11/1/2016 | | <0.0005 | | | <0.0005 | <0.0005 | <0.0005 |
| 11/2/2016 | 0.0002 (J) | | | | | | |
| 11/4/2016 | | | <0.0005 | <0.0005 | | | |
| 12/15/2016 | | | | <0.0005 | | | |
| 1/10/2017 | 0.0002 (J) | | | | | | |
| 1/11/2017 | | <0.0005 | | | | <0.0005 | <0.0005 |
| 1/16/2017 | | | <0.0005 | <0.0005 | <0.0005 | | |
| 2/21/2017 | | | | | <0.0005 | | |
| 3/1/2017 | | | | | | | <0.0005 |
| 3/2/2017 | | <0.0005 | <0.0005 | | | <0.0005 | |
| 3/3/2017 | | | | <0.0005 | | | |
| 3/8/2017 | 0.0002 (J) | | | | | | |
| 4/26/2017 | 0.0002 (J) | | | | <0.0005 | <0.0005 | <0.0005 |
| 4/27/2017 | | <0.0005 | <0.0005 | | | | |
| 4/28/2017 | | | | <0.0005 | | | |
| 5/26/2017 | | | | <0.0005 | | | |
| 6/27/2017 | | <0.0005 | <0.0005 | | | | |
| 6/28/2017 | | | | <0.0005 | | <0.0005 | <0.0005 |
| 6/30/2017 | 0.0002 (J) | | | | <0.0005 | | |
| 3/27/2018 | <0.0005 | | <0.0005 | | <0.0005 | | |
| 3/28/2018 | | | | <0.0005 | | <0.0005 | <0.0005 |
| 3/29/2018 | | <0.0005 | | | | | |
| 2/26/2019 | 0.00016 (J) | | | | 7.2E-05 (J) | | |
| 2/27/2019 | | <0.0005 | <0.0005 | <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 | <0.0005 | <0.0005 |
| 9/24/2019 | | <0.0005 | <0.0005 | <0.0005 | | | |
| 9/25/2019 | 0.00018 (J) | | | | <0.0005 | <0.0005 | <0.0005 |
| 2/10/2020 | | <0.0005 | <0.0005 | | | | |
| 2/11/2020 | | | | <0.0005 | | | <0.0005 |
| 2/12/2020 | 0.00019 (J) | | | | <0.0005 | <0.0005 | |
| 3/18/2020 | 0.00021 (J) | | <0.0005 | | | | |
| 3/19/2020 | | <0.0005 | | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 9/23/2020 | | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | 5.9E-05 (J) |
| 9/24/2020 | | | | | <0.0005 | | |
| 9/25/2020 | 0.00018 (J) | | | | | | |
| 2/10/2021 | 0.00019 (J) | | | <0.0005 | | <0.0005 | <0.0005 |
| 2/11/2021 | | | | | 4.7E-05 (J) | | |
| 2/12/2021 | | <0.0005 | <0.0005 | | | | |
| 3/1/2021 | | | | | <0.0005 | | |
| 3/2/2021 | 0.00018 (J) | | | | | | |
| 3/3/2021 | | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | <0.0005 |
| 8/19/2021 | 0.00022 (J) | <0.0005 | <0.0005 | | <0.0005 | <0.0005 | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 8/27/2021 | | | | <0.0005 | | | <0.0005 |
| 2/9/2022 | | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | <0.0005 |
| 2/10/2022 | 0.00025 (J) | | | | | | |
| 2/11/2022 | | | | | <0.0005 | | |
| 8/30/2022 | | <0.0005 | | <0.0005 | | | |
| 8/31/2022 | 0.0002 (J) | | <0.0005 | | <0.0005 | <0.0005 | <0.0005 |
| 2/7/2023 | | 0.0011 | 0.00054 | <0.0005 | | | |
| 2/8/2023 | 0.00022 (J) | | | | <0.0005 | <0.0005 | <0.0005 |
| 8/15/2023 | 0.00018 (J) | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | |
| 8/16/2023 | | | | | <0.0005 | | <0.0005 |
| 2/20/2024 | | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 2/23/2024 | 0.00024 (J) | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | | | |
| 6/9/2016 | | | | | <0.0005 | <0.0005 | |
| 8/1/2016 | <0.0005 | 0.0002 (J) | <0.0005 | <0.0005 | | | |
| 8/2/2016 | | | | | <0.0005 | <0.0005 | |
| 8/30/2016 | | | | | | | <0.0005 |
| 9/20/2016 | <0.0005 | 0.0001 (J) | 9E-05 (J) | <0.0005 | | | |
| 9/21/2016 | | | | | <0.0005 | <0.0005 | |
| 11/7/2016 | <0.0005 | 0.0001 (J) | 0.0001 (J) | <0.0005 | | <0.0005 | |
| 11/8/2016 | | | | | <0.0005 | | |
| 11/14/2016 | | | | | | | <0.0005 |
| 1/18/2017 | <0.0005 | 0.0002 (J) | 0.0002 (J) | | <0.0005 | <0.0005 | |
| 1/19/2017 | | | | <0.0005 | | | |
| 2/21/2017 | <0.0005 | 0.0002 (J) | | | | <0.0005 | |
| 2/22/2017 | | | | <0.0005 | <0.0005 | | |
| 2/23/2017 | | | 0.0002 (J) | | | | |
| 2/24/2017 | | | | | | | <0.0005 |
| 5/3/2017 | | 0.0002 (J) | | | | | |
| 5/5/2017 | | | | | <0.0005 | <0.0005 | |
| 5/8/2017 | <0.0005 | | 0.0002 (J) | <0.0005 | | | 7E-05 (J) |
| 6/30/2017 | | | 0.0002 (J) | <0.0005 | | | |
| 7/5/2017 | | | | | <0.0005 | | |
| 7/7/2017 | | | | | | <0.0005 | |
| 7/10/2017 | <0.0005 | 0.0002 (J) | | | | | |
| 7/11/2017 | | | | | | | <0.0005 |
| 10/10/2017 | | | | | | | <0.0005 |
| 3/29/2018 | | | <0.0005 | <0.0005 | | | |
| 3/30/2018 | <0.0005 | <0.0005 | | | <0.0005 | <0.0005 | |
| 4/2/2018 | | | | | | | <0.0005 |
| 9/19/2018 | | | | | | | 5.7E-05 (J) |
| 2/27/2019 | <0.0005 | 0.00018 (J) | 0.00022 (J) | <0.0005 | <0.0005 | <0.0005 | |
| 4/1/2019 | | | 0.00022 (J) | <0.0005 | <0.0005 | | |
| 4/2/2019 | <0.0005 | 0.00015 (J) | | | | <0.0005 | |
| 8/20/2019 | | | | | | | <0.0005 |
| 9/25/2019 | <0.0005 | 0.00011 (J) | | | | | |
| 9/26/2019 | | | 0.0002 (J) | <0.0005 | <0.0005 | <0.0005 | |
| 2/13/2020 | <0.0005 | 0.00015 (J) | 0.00021 (J) | <0.0005 | <0.0005 | <0.0005 | |
| 3/19/2020 | | 0.00012 (J) | | | <0.0005 | <0.0005 | |
| 3/20/2020 | <0.0005 | | 0.00023 (J) | <0.0005 | | | |
| 8/27/2020 | | | | | | | 4.7E-05 (J) |
| 9/22/2020 | | | | | | | <0.0005 |
| 9/24/2020 | <0.0005 | 8.5E-05 (J) | 0.00019 (J) | <0.0005 | <0.0005 | <0.0005 | |
| 2/10/2021 | <0.0005 | 0.00013 (J) | 0.00014 (J) | 6.6E-05 (J) | | | |
| 2/11/2021 | | | | | <0.0005 | | |
| 2/12/2021 | | | | | | <0.0005 | |
| 3/1/2021 | | | | | | | 5.5E-05 (J) |
| 3/2/2021 | | 0.00016 (J) | | | | | |
| 3/3/2021 | <0.0005 | | 0.00013 (J) | <0.0005 | <0.0005 | <0.0005 | |
| 8/19/2021 | | 8.2E-05 (J) | | | | | <0.0005 |
| 8/20/2021 | <0.0005 | | 8.6E-05 (J) | 0.00011 (J) | <0.0005 | <0.0005 | |
| 2/8/2022 | | | | <0.0005 | <0.0005 | <0.0005 | 5.6E-05 (J) |
| 2/10/2022 | <0.0005 | 9.3E-05 (J) | 0.00013 (J) | | | | |
| 8/31/2022 | <0.0005 | 7.4E-05 (J) | | | | | <0.0005 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 9/1/2022 | | | 0.00012 (J) | <0.0005 | <0.0005 | <0.0005 | |
| 2/8/2023 | | | | | | | <0.0005 |
| 2/9/2023 | <0.0005 | 6.8E-05 (J) | 0.0001 (J) | <0.0005 | <0.0005 | <0.0005 | |
| 8/15/2023 | | | | | | | <0.0005 |
| 8/16/2023 | | | | | <0.0005 | <0.0005 | |
| 8/17/2023 | <0.0005 | <0.0005 | 9.5E-05 (J) | <0.0005 | | | |
| 2/20/2024 | | | | | | | <0.0005 |
| 2/21/2024 | | | 0.00011 (J) | <0.0005 | <0.0005 | <0.0005 | |
| 2/22/2024 | <0.0005 | <0.0005 | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (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 | | |
| 10/11/2017 | | | | | | <0.0005 | |
| 10/12/2017 | | | | | | | 0.0002 (J) |
| 11/20/2017 | | | | | | <0.0005 | 0.0003 (J) |
| 1/10/2018 | | | | | | | 0.0003 (J) |
| 1/11/2018 | | | | | | <0.0005 | |
| 2/19/2018 | | | | | | | <0.0005 |
| 2/20/2018 | | | | | | <0.0005 | |
| 3/28/2018 | <0.0005 | <0.0005 | <0.0005 | | | | |
| 3/29/2018 | | | | <0.0005 | <0.0005 | | |
| 4/3/2018 | | | | | | <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) | | | | |
| 6/28/2018 | | | | | | <0.0005 | 0.00029 (J) |
| 8/7/2018 | | | | | | <0.0005 | 0.00024 (J) |
| 9/24/2018 | | | | | | <0.0005 | 0.00019 (J) |
| 9/25/2018 | 8.9E-05 (J) | <0.0005 | 8.2E-05 (J) | 6.1E-05 (J) | <0.0005 | | |
| 3/5/2019 | 9.1E-05 (J) | | 7.9E-05 (J) | 0.00011 (J) | <0.0005 | | |
| 3/6/2019 | | <0.0005 | | | | | |
| 4/2/2019 | 9E-05 (J) | | | | <0.0005 | | |
| 4/3/2019 | | <0.0005 | 7.5E-05 (J) | 6.4E-05 (J) | | | |
| 8/21/2019 | | | | | | <0.0005 | 0.0002 (J) |
| 9/24/2019 | | | | | <0.0005 | | |
| 9/25/2019 | 8.1E-05 (J) | | | <0.0005 | | | |
| 9/26/2019 | | <0.0005 | 8.4E-05 (J) | | | | |
| 10/9/2019 | | | | | | <0.0005 | 0.0002 (J) |
| 2/11/2020 | 7.8E-05 (J) | <0.0005 | 7.6E-05 (J) | | | | |
| 2/12/2020 | | | | 7.8E-05 (J) | <0.0005 | <0.0005 | 0.00018 (J) |
| 3/24/2020 | 8E-05 (J) | <0.0005 | 8.9E-05 (J) | 7.6E-05 (J) | <0.0005 | | 0.00022 (J) |
| 3/25/2020 | | | | | | <0.0005 | |
| 9/23/2020 | 8.1E-05 (J) | <0.0005 | 8.8E-05 (J) | | | | |
| 9/24/2020 | | | | 8.3E-05 (J) | <0.0005 | <0.0005 | 0.0002 (J) |
| 2/9/2021 | | <0.0005 | 9.8E-05 (J) | 6.8E-05 (J) | <0.0005 | | |
| 2/10/2021 | | | | | | 5.1E-05 (J) | 0.00021 (J) |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 3/3/2021 | 9.9E-05 (J) | <0.0005 | 0.00011 (J) | 6.8E-05 (J) | | | |
| 3/4/2021 | | | | | <0.0005 | <0.0005 | 0.00021 (J) |
| 8/26/2021 | | | 9.3E-05 (J) | | | <0.0005 | |
| 8/27/2021 | 0.0001 (J) | <0.0005 | | 5.9E-05 (J) | | | |
| 9/1/2021 | | | | | <0.0005 | | |
| 9/3/2021 | | | | | | | 0.00024 (J) |
| 2/8/2022 | | | | | | <0.0005 | 0.00028 (J) |
| 2/9/2022 | 0.00011 (J) | <0.0005 | 8.9E-05 (J) | 7.7E-05 (J) | <0.0005 | | |
| 8/30/2022 | 0.0001 (J) | <0.0005 | 8.2E-05 (J) | | <0.0005 | | |
| 8/31/2022 | | | | <0.0005 | | <0.0005 | 0.00025 (J) |
| 2/7/2023 | 9.6E-05 (J) | <0.0005 | 7.1E-05 (J) | 7.4E-05 (J) | <0.0005 | <0.0005 | |
| 2/8/2023 | | | | | | | 0.00026 (J) |
| 8/15/2023 | <0.0005 | <0.0005 | 5.7E-05 (J) | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 2/20/2024 | 0.0001 (J) | <0.0005 | | <0.0005 | <0.0005 | <0.0005 | 0.00025 (J) |
| 2/23/2024 | | | <0.0005 | | | | |

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 5/1/2007 | | | | <0.0005 | |
| 9/11/2007 | | | | <0.0005 | |
| 3/20/2008 | | | | <0.0005 | |
| 8/27/2008 | | | | <0.0005 | |
| 3/3/2009 | | | | <0.0005 | |
| 11/18/2009 | | | | <0.0005 | |
| 3/3/2010 | | | | <0.0005 | |
| 9/8/2010 | | | | <0.0005 | |
| 3/10/2011 | | | | <0.0005 | |
| 9/8/2011 | | | | <0.0005 | |
| 3/5/2012 | | | | <0.0005 | |
| 9/10/2012 | | | | <0.0005 | |
| 2/6/2013 | | | | <0.0005 | |
| 8/12/2013 | | | | <0.0005 | |
| 2/5/2014 | | | | <0.0005 | |
| 8/5/2014 | | | | <0.0005 | |
| 2/4/2015 | | | | <0.0005 | |
| 8/3/2015 | | | | <0.0005 | |
| 2/16/2016 | | | | <0.0005 | |
| 6/2/2016 | <0.0005 | <0.0005 | <0.0005 | | |
| 6/9/2016 | | | | | <0.0005 |
| 7/26/2016 | <0.0005 | <0.0005 | <0.0005 | | |
| 8/2/2016 | | | | | <0.0005 |
| 8/31/2016 | | | | <0.0005 | |
| 9/14/2016 | <0.0005 | <0.0005 | <0.0005 | | |
| 9/21/2016 | | | | | <0.0005 |
| 11/2/2016 | <0.0005 | <0.0005 | | | |
| 11/4/2016 | | | <0.0005 | | |
| 11/7/2016 | | | | | <0.0005 |
| 11/28/2016 | | | | <0.0005 | |
| 1/12/2017 | | <0.0005 | <0.0005 | | |
| 1/13/2017 | <0.0005 | | | | |
| 1/19/2017 | | | | | <0.0005 |
| 2/22/2017 | | | | <0.0005 | <0.0005 |
| 3/6/2017 | <0.0005 | | | | |
| 3/7/2017 | | <0.0005 | <0.0005 | | |
| 5/1/2017 | <0.0005 | <0.0005 | | | |
| 5/2/2017 | | | <0.0005 | | |
| 5/8/2017 | | | | <0.0005 | <0.0005 |
| 6/27/2017 | | <0.0005 | <0.0005 | | |
| 6/29/2017 | <0.0005 | | | | |
| 7/5/2017 | | | | | <0.0005 |
| 7/17/2017 | | | | <0.0005 | |
| 10/16/2017 | | | | <0.0005 | |
| 2/19/2018 | | | | <0.0005 | |
| 3/29/2018 | <0.0005 | <0.0005 | <0.0005 | | <0.0005 |
| 6/6/2018 | | <0.0005 | | | |
| 6/7/2018 | <0.0005 | | <0.0005 | | |
| 8/6/2018 | | | | <0.0005 | |
| 9/26/2018 | <0.0005 | <0.0005 | <0.0005 | | |
| 2/25/2019 | | | | <0.0005 | |
| 2/27/2019 | | | | | <0.0005 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 3/4/2019 | <0.0005 | <0.0005 | <0.0005 | | |
| 4/1/2019 | | | | | <0.0005 |
| 4/3/2019 | <0.0005 | <0.0005 | <0.0005 | | |
| 6/12/2019 | | | | <0.0005 | |
| 8/19/2019 | | | | <0.0005 | |
| 9/24/2019 | | <0.0005 | <0.0005 | | |
| 9/25/2019 | <0.0005 | | | | <0.0005 |
| 10/8/2019 | | | | <0.0005 | |
| 2/12/2020 | <0.0005 | <0.0005 | <0.0005 | | |
| 2/13/2020 | | | | | <0.0005 |
| 3/17/2020 | | | | <0.0005 | |
| 3/20/2020 | | | | | <0.0005 |
| 3/24/2020 | | <0.0005 | <0.0005 | | |
| 3/25/2020 | <0.0005 | | | | |
| 8/26/2020 | | | | <0.0005 | |
| 9/22/2020 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | |
| 9/24/2020 | | | | | <0.0005 |
| 2/8/2021 | | <0.0005 | <0.0005 | | |
| 2/9/2021 | <0.0005 | | | | |
| 2/12/2021 | | | | | <0.0005 |
| 3/2/2021 | | <0.0005 | <0.0005 | <0.0005 | |
| 3/3/2021 | <0.0005 | | | | <0.0005 |
| 8/20/2021 | | | | <0.0005 | <0.0005 |
| 8/26/2021 | <0.0005 | <0.0005 | <0.0005 | | |
| 2/8/2022 | | | | <0.0005 | <0.0005 |
| 2/10/2022 | | <0.0005 | <0.0005 | | |
| 2/11/2022 | <0.0005 | | | | |
| 8/30/2022 | | <0.0005 | <0.0005 | <0.0005 | |
| 8/31/2022 | <0.0005 | | | | |
| 9/1/2022 | | | | | <0.0005 |
| 2/7/2023 | | <0.0005 | | <0.0005 | |
| 2/8/2023 | | | | | <0.0005 |
| 2/9/2023 | <0.0005 | | <0.0005 | | |
| 8/2/2023 | | | | | <0.0005 |
| 8/15/2023 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | |
| 2/20/2024 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | |
| 2/22/2024 | | | | | <0.0005 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 6/1/2016 | | <0.04 | <0.04 | | | | <0.04 |
| 6/2/2016 | <0.04 | | | | <0.04 | <0.04 | |
| 7/25/2016 | | | <0.04 | | <0.04 | | <0.04 |
| 7/26/2016 | 0.0177 (J) | 0.0055 (J) | | | | 0.0097 (J) | |
| 9/13/2016 | | <0.04 | <0.04 | | | | |
| 9/14/2016 | | | | <0.04 | | | <0.04 |
| 9/15/2016 | 0.0214 (J) | | | | | 0.0102 (J) | |
| 9/19/2016 | | | | | <0.04 | | |
| 11/1/2016 | | 0.0086 (J) | | | <0.04 | <0.04 | <0.04 |
| 11/2/2016 | <0.04 | | | | | | |
| 11/4/2016 | | | <0.04 | <0.04 | | | |
| 12/15/2016 | | | | 0.0107 (J) | | | |
| 1/10/2017 | 0.0198 (J) | | | | | | |
| 1/11/2017 | | 0.0074 (J) | | | | <0.04 | <0.04 |
| 1/16/2017 | | | <0.04 | <0.04 | <0.04 | | |
| 2/21/2017 | | | | | <0.04 | | |
| 3/1/2017 | | | | | | | <0.04 |
| 3/2/2017 | | 0.008 (J) | <0.04 | | | 0.0084 (J) | |
| 3/3/2017 | | | | <0.04 | | | |
| 3/8/2017 | 0.0189 (J) | | | | | | |
| 4/26/2017 | 0.0161 (J) | | | | <0.04 | <0.04 | <0.04 |
| 4/27/2017 | | 0.0066 (J) | <0.04 | | | | |
| 4/28/2017 | | | | <0.04 | | | |
| 5/26/2017 | | | | <0.04 | | | |
| 6/27/2017 | | 0.0087 (J) | 0.006 (J) | | | | |
| 6/28/2017 | | | | <0.04 | | <0.04 | <0.04 |
| 6/30/2017 | 0.0173 (J) | | | | <0.04 | | |
| 10/3/2017 | | 0.0072 (J) | 0.0071 (J) | <0.04 | | | |
| 10/4/2017 | | | | | <0.04 | <0.04 | <0.04 |
| 10/5/2017 | 0.0173 (J) | | | | | | |
| 6/5/2018 | | 0.0052 (J) | | | | | |
| 6/6/2018 | | | <0.04 | | | | |
| 6/7/2018 | | | | <0.04 | | 0.004 (J) | |
| 6/8/2018 | 0.013 (J) | | | | | | <0.04 |
| 6/11/2018 | | | | | 0.014 (J) | | |
| 10/1/2018 | 0.015 (J) | 0.021 (J) | 0.0049 (J) | <0.04 | | <0.04 | <0.04 |
| 10/2/2018 | | | | | <0.04 | | |
| 3/28/2019 | | 0.005 (J) | <0.04 | | | | |
| 3/29/2019 | 0.014 (J) | | | 0.0065 (J) | | | |
| 4/1/2019 | | | | | <0.04 | <0.04 | <0.04 |
| 9/24/2019 | | 0.0064 (J) | 0.0055 (J) | 0.0076 (J) | | | |
| 9/25/2019 | 0.018 (J) | | | | <0.04 | 0.0054 (J) | <0.04 |
| 3/18/2020 | 0.02 (J) | | 0.0087 (J) | | | | |
| 3/19/2020 | | 0.0085 (J) | | 0.0073 (J) | 0.0052 (J) | 0.0073 (J) | 0.0053 (J) |
| 9/23/2020 | | <0.04 | <0.04 | <0.04 | | 0.012 (J) | 0.0073 (J) |
| 9/24/2020 | | | | | 0.0075 (J) | | |
| 9/25/2020 | 0.02 (J) | | | | | | |
| 3/1/2021 | | | | | <0.04 | | |
| 3/2/2021 | 0.017 (J) | | | | | | |
| 3/3/2021 | | <0.04 | <0.04 | <0.04 | | <0.04 | <0.04 |
| 8/19/2021 | 0.018 (J) | <0.04 | <0.04 | | <0.04 | <0.04 | |
| 8/27/2021 | | | | <0.04 | | | <0.04 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 2/9/2022 | | <0.04 | <0.04 | <0.04 | | 0.01 (J) | <0.04 |
| 2/10/2022 | 0.02 (J) | | | | | | |
| 2/11/2022 | | | | | <0.04 | | |
| 8/30/2022 | | <0.04 | | <0.04 | | | |
| 8/31/2022 | 0.015 (J) | | <0.04 | | <0.04 | <0.04 | <0.04 |
| 2/7/2023 | | <0.04 | <0.04 | <0.04 | | | |
| 2/8/2023 | 0.015 (J) | | | | <0.04 | <0.04 | <0.04 |
| 8/15/2023 | 0.017 (J) | <0.04 | 0.0094 (J) | <0.04 | | <0.04 | |
| 8/16/2023 | | | | | <0.04 | | <0.04 |
| 2/20/2024 | | 0.015 (J) | 0.014 (J) | <0.04 | <0.04 | <0.04 | <0.04 |
| 2/23/2024 | 0.037 (J) | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Boron (mg/L)  Analysis Run 5/2/2024 9:49 AM

Plant Yates  Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | 0.97 | 0.62 | 2.2 | 1.3 | | | |
| 6/9/2016 | | | | | 2.2 | 2.3 | |
| 8/1/2016 | 0.932 | 0.643 | 2 | 1.36 | | | |
| 8/2/2016 | | | | | 2.22 | 2.21 | |
| 8/30/2016 | | | | | | | 0.0166 (J) |
| 9/20/2016 | 1.04 | 0.644 | 2.02 | 1.69 | | | |
| 9/21/2016 | | | | | 2.65 | 2.54 | |
| 11/7/2016 | 0.852 | 0.621 | 1.91 | 1.35 | | 2.49 | |
| 11/8/2016 | | | | | 2.44 | | |
| 11/14/2016 | | | | | | | 0.0166 (J) |
| 1/18/2017 | 0.972 | 0.607 | 1.69 | | 1.88 | 2.04 | |
| 1/19/2017 | | | | 1.15 | | | |
| 2/21/2017 | 0.972 | 0.624 | | | | 2.29 | |
| 2/22/2017 | | | | 1.3 | 2.05 | | |
| 2/23/2017 | | | 1.76 | | | | |
| 2/24/2017 | | | | | | | 0.0145 (J) |
| 5/3/2017 | | 0.676 | | | | | |
| 5/5/2017 | | | | | 3.01 | 3.41 | |
| 5/8/2017 | 1.05 | | 2 | 1.51 | | | 0.0141 (J) |
| 6/30/2017 | | | 2.28 | 1.47 | | | |
| 7/5/2017 | | | | | 2.7 | | |
| 7/7/2017 | | | | | | 3.01 | |
| 7/10/2017 | 0.855 | 0.58 | | | | | |
| 7/11/2017 | | | | | | | 0.0131 (J) |
| 10/5/2017 | | | | | 2.53 | | |
| 10/6/2017 | | | | 1.31 | | | |
| 10/9/2017 | | | 1.82 | | | 2.76 | |
| 10/10/2017 | 0.887 | 0.612 | | | | | 0.0124 (J) |
| 4/2/2018 | | | | | | | 0.013 (J) |
| 6/12/2018 | | | | 1.6 | 2.8 | 2.9 | |
| 6/13/2018 | 0.86 | 0.67 | 2.2 | | | | |
| 9/19/2018 | | | | | | | 0.012 (J) |
| 10/2/2018 | 0.93 | 0.62 | 1.9 | 1.4 | | | |
| 10/3/2018 | | | | | 2.3 | 2.4 | |
| 3/27/2019 | | | | | | | 0.013 (J) |
| 4/1/2019 | | | 2.4 | 1.4 | 2.7 | | |
| 4/2/2019 | 0.9 | 0.63 | | | | 2.9 | |
| 9/25/2019 | 0.86 | 0.63 | | | | | |
| 9/26/2019 | | | 1.9 | 1.5 | 2.8 | 2.5 | |
| 10/8/2019 | | | | | | | 0.012 (J) |
| 3/17/2020 | | | | | | | 0.023 (J) |
| 3/19/2020 | | 0.73 | | | 2.4 | 2.5 | |
| 3/20/2020 | 0.94 | | 2.1 | 1.4 | | | |
| 9/22/2020 | | | | | | | 0.0076 (J) |
| 9/24/2020 | 0.76 | 0.74 | 2.3 | 1.3 | 2.1 | 2.6 | |
| 3/1/2021 | | | | | | | 0.013 (J) |
| 3/2/2021 | | 0.57 | | | | | |
| 3/3/2021 | 0.69 | | 2 | 1.2 | 1.8 | 2.3 | |
| 8/19/2021 | | 0.71 | | | | | 0.011 (J) |
| 8/20/2021 | 0.72 | | 2.5 | 1.2 | 2.3 | 2.5 | |
| 2/8/2022 | | | | 1.1 | 2.4 | 2.4 | 0.015 (J) |
| 2/10/2022 | 0.79 | 0.79 | 2.5 | | | | |

# Time Series

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 8/31/2022 | 0.64 | 0.7 | | | | | 0.0091 (J) |
| 9/1/2022 | | | 2.3 | 1 | 1.8 | 2.2 | |
| 2/8/2023 | | | | | | | 0.011 (J) |
| 2/9/2023 | 0.75 | 0.74 | 2.2 | 1 | 1.8 | 2.3 | |
| 8/15/2023 | | | | | | | <0.04 |
| 8/16/2023 | | | | | 1.7 | 2.1 | |
| 8/17/2023 | 0.73 | 0.72 | 2.1 | 0.95 | | | |
| 2/20/2024 | | | | | | | 0.023 (J) |
| 2/21/2024 | | | 1.8 | 0.91 | 1.6 | 2.3 | |
| 2/22/2024 | 0.77 | 0.78 | | | | | |

# Time Series

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (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 | | | | | |
| 10/11/2017 | | | | | | 0.0135 (J) | |
| 10/12/2017 | | | | | | | 0.0401 |
| 11/20/2017 | | | | | | 0.0251 (J) | 0.156 |
| 1/10/2018 | | | | | | | 0.15 |
| 1/11/2018 | | | | | | 0.0255 (J) | |
| 2/19/2018 | | | | | | | 0.146 |
| 2/20/2018 | | | | | | <0.04 | |
| 4/3/2018 | | | | | | 0.033 (J) | 0.12 |
| 6/5/2018 | | | | | 0.0092 (J) | | |
| 6/6/2018 | | | | 0.0049 (J) | | | |
| 6/7/2018 | | <0.04 | | | | | |
| 6/11/2018 | 0.01 (J) | | 0.0093 (J) | | | | |
| 6/28/2018 | | | | | | 0.053 | 0.16 |
| 8/7/2018 | | | | | | 0.024 (J) | 0.12 |
| 9/24/2018 | | | | | | 0.028 (J) | 0.099 |
| 9/25/2018 | 0.0096 (J) | 0.0046 (J) | 0.007 (J) | <0.04 | 0.0054 (J) | | |
| 3/26/2019 | | | | | | | 0.096 |
| 3/27/2019 | | | | | | 0.017 (J) | |
| 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 | | 0.0062 (J) | 0.0072 (J) | | | | |
| 10/9/2019 | | | | | | 0.017 (J) | 0.079 |
| 3/24/2020 | 0.0092 (J) | 0.0054 (J) | 0.01 (J) | <0.04 | 0.016 (J) | | 0.088 (J) |
| 3/25/2020 | | | | | | 0.043 (J) | |
| 9/23/2020 | 0.0066 (J) | 0.021 (J) | 0.006 (J) | | | | |
| 9/24/2020 | | | | 0.0094 (J) | 0.013 (J) | 0.037 (J) | 0.087 (J) |
| 3/3/2021 | 0.01 (J) | <0.04 | 0.0094 (J) | <0.04 | | | |
| 3/4/2021 | | | | | 0.0079 (J) | 0.033 (J) | 0.078 |
| 8/26/2021 | | | <0.04 | | | 0.095 | |
| 8/27/2021 | 0.011 (J) | <0.04 | | <0.04 | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 9/1/2021 | | | | | <0.04 | | |
| 9/3/2021 | | | | | | | 0.077 |
| 2/8/2022 | | | | | | 0.13 | 0.074 |
| 2/9/2022 | 0.0098 (J) | <0.04 | <0.04 | <0.04 | <0.04 | | |
| 8/30/2022 | 0.013 (J) | <0.04 | 0.014 (J) | | 0.012 (J) | | |
| 8/31/2022 | | | | <0.04 | | 0.14 | 0.062 |
| 2/7/2023 | 0.014 (J) | <0.04 | <0.04 | <0.04 | <0.04 | 0.13 | |
| 2/8/2023 | | | | | | | 0.057 |
| 8/15/2023 | <0.04 | <0.04 | <0.04 | <0.04 | 0.046 (J) | 0.15 (J) | 0.052 (J) |
| 2/20/2024 | <0.04 | <0.04 | | <0.04 | <0.04 | 0.12 | 0.056 |
| 2/23/2024 | | | 0.018 (J) | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 6/2/2016 | <0.04 | <0.04 | <0.04 | | |
| 6/9/2016 | | | | | 0.88 |
| 7/26/2016 | 0.0047 (J) | 0.0052 (J) | <0.04 | | |
| 8/2/2016 | | | | | 0.872 |
| 8/31/2016 | | | | 0.0315 (J) | |
| 9/14/2016 | <0.04 | 0.0071 (J) | 0.01 (J) | | |
| 9/21/2016 | | | | | 0.853 |
| 11/2/2016 | <0.04 | <0.04 | | | |
| 11/4/2016 | | | <0.04 | | |
| 11/7/2016 | | | | | 0.815 |
| 11/28/2016 | | | | 0.0095 (J) | |
| 1/12/2017 | | 0.0076 (J) | <0.04 | | |
| 1/13/2017 | <0.04 | | | | |
| 1/19/2017 | | | | | 0.803 |
| 2/22/2017 | | | | <0.04 | 0.855 |
| 3/6/2017 | <0.04 | | | | |
| 3/7/2017 | | 0.0089 (J) | <0.04 | | |
| 5/1/2017 | <0.04 | 0.0061 (J) | | | |
| 5/2/2017 | | | <0.04 | | |
| 5/8/2017 | | | | 0.0084 (J) | 0.884 |
| 6/27/2017 | | 0.0079 (J) | <0.04 | | |
| 6/29/2017 | <0.04 | | | | |
| 7/5/2017 | | | | | 0.811 |
| 7/17/2017 | | | | 0.0092 (J) | |
| 10/3/2017 | | 0.0094 (J) | <0.04 | | |
| 10/5/2017 | <0.04 | | | | 0.851 |
| 10/16/2017 | | | | <0.04 | |
| 2/19/2018 | | | | <0.04 | |
| 6/6/2018 | | 0.0098 (J) | | | |
| 6/7/2018 | 0.0045 (J) | | <0.04 | | |
| 6/11/2018 | | | | | 0.9 |
| 8/6/2018 | | | | <0.04 | |
| 9/26/2018 | 0.005 (J) | 0.01 (J) | 0.0057 (J) | | |
| 10/2/2018 | | | | | 0.81 |
| 2/25/2019 | | | | <0.04 | |
| 4/1/2019 | | | | | 0.85 |
| 4/3/2019 | 0.0055 (J) | 0.0076 (J) | 0.0044 (J) | | |
| 6/12/2019 | | | | <0.04 | |
| 9/24/2019 | | 0.01 (J) | 0.0049 (J) | | |
| 9/25/2019 | <0.04 | | | | 0.73 |
| 10/8/2019 | | | | <0.04 | |
| 3/17/2020 | | | | 0.0051 (J) | |
| 3/20/2020 | | | | | 0.8 |
| 3/24/2020 | | 0.011 (J) | 0.0068 (J) | | |
| 3/25/2020 | 0.011 (J) | | | | |
| 9/22/2020 | <0.04 | 0.0079 (J) | 0.0053 (J) | 0.0079 (J) | |
| 9/24/2020 | | | | | 0.84 |
| 3/2/2021 | | 0.0068 (J) | 0.011 (J) | <0.04 | |
| 3/3/2021 | 0.0056 (J) | | | | 0.62 |
| 8/20/2021 | | | | <0.04 | 0.66 |
| 8/26/2021 | <0.04 | 0.009 (J) | <0.04 | | |
| 2/8/2022 | | | | <0.04 | 0.71 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 2/10/2022 | | 0.011 (J) | <0.04 | | |
| 2/11/2022 | <0.04 | | | | |
| 8/30/2022 | | 0.0098 (J) | <0.04 | <0.04 | |
| 8/31/2022 | <0.04 | | | | |
| 9/1/2022 | | | | | 0.71 |
| 2/7/2023 | | <0.04 | | <0.04 | |
| 2/8/2023 | | | | | 0.9 |
| 2/9/2023 | <0.04 | | <0.04 | | |
| 8/2/2023 | | | | | 0.75 |
| 8/15/2023 | <0.04 | <0.04 | <0.04 | <0.04 | |
| 2/20/2024 | <0.04 | <0.04 | <0.04 | 0.017 (J) | |
| 2/22/2024 | | | | | 1.1 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 6/1/2016 | | <0.0005 | <0.0005 | | | | <0.0005 |
| 6/2/2016 | <0.0005 | | | | <0.0005 | <0.0005 | |
| 7/25/2016 | | | <0.0005 | | <0.0005 | | <0.0005 |
| 7/26/2016 | <0.0005 | <0.0005 | | | | <0.0005 | |
| 9/13/2016 | | <0.0005 | <0.0005 | | | | |
| 9/14/2016 | | | | <0.0005 | | | <0.0005 |
| 9/15/2016 | <0.0005 | | | | | <0.0005 | |
| 9/19/2016 | | | | | <0.0005 | | |
| 11/1/2016 | | <0.0005 | | | <0.0005 | <0.0005 | <0.0005 |
| 11/2/2016 | <0.0005 | | | | | | |
| 11/4/2016 | | | <0.0005 | <0.0005 | | | |
| 12/15/2016 | | | | <0.0005 | | | |
| 1/10/2017 | <0.0005 | | | | | | |
| 1/11/2017 | | 0.0002 (J) | | | | 0.0001 (J) | 8E-05 (J) |
| 1/16/2017 | | | <0.0005 | <0.0005 | <0.0005 | | |
| 2/21/2017 | | | | | <0.0005 | | |
| 3/1/2017 | | | | | | | <0.0005 |
| 3/2/2017 | | <0.0005 | <0.0005 | | | <0.0005 | |
| 3/3/2017 | | | | <0.0005 | | | |
| 3/8/2017 | 7E-05 (J) | | | | | | |
| 4/26/2017 | <0.0005 | | | | <0.0005 | <0.0005 | <0.0005 |
| 4/27/2017 | | <0.0005 | <0.0005 | | | | |
| 4/28/2017 | | | | <0.0005 | | | |
| 5/26/2017 | | | | <0.0005 | | | |
| 6/27/2017 | | <0.0005 | <0.0005 | | | | |
| 6/28/2017 | | | | <0.0005 | | <0.0005 | <0.0005 |
| 6/30/2017 | <0.0005 | | | | <0.0005 | | |
| 3/27/2018 | <0.0005 | | <0.0005 | | <0.0005 | | |
| 3/28/2018 | | | | <0.0005 | | <0.0005 | <0.0005 |
| 3/29/2018 | | <0.0005 | | | | | |
| 2/26/2019 | <0.0005 | | | | <0.0005 | | |
| 2/27/2019 | | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | <0.0005 |
| 3/28/2019 | | <0.0005 | <0.0005 | | | | |
| 3/29/2019 | <0.0005 | | | <0.0005 | | | |
| 4/1/2019 | | | | | <0.0005 | <0.0005 | <0.0005 |
| 9/24/2019 | | <0.0005 | <0.0005 | <0.0005 | | | |
| 9/25/2019 | <0.0005 | | | | <0.0005 | <0.0005 | <0.0005 |
| 2/10/2020 | | <0.0005 | <0.0005 | | | | |
| 2/11/2020 | | | | <0.0005 | | | <0.0005 |
| 2/12/2020 | <0.0005 | | | | <0.0005 | <0.0005 | |
| 3/18/2020 | <0.0005 | | <0.0005 | | | | |
| 3/19/2020 | | <0.0005 | | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 9/23/2020 | | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | <0.0005 |
| 9/24/2020 | | | | | <0.0005 | | |
| 9/25/2020 | <0.0005 | | | | | | |
| 2/10/2021 | <0.0005 | | | <0.0005 | | <0.0005 | <0.0005 |
| 2/11/2021 | | | | | <0.0005 | | |
| 2/12/2021 | | <0.0005 | <0.0005 | | | | |
| 3/1/2021 | | | | | <0.0005 | | |
| 3/2/2021 | <0.0005 | | | | | | |
| 3/3/2021 | | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | <0.0005 |
| 8/19/2021 | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | <0.0005 | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 8/27/2021 | | | | <0.0005 | | | <0.0005 |
| 2/9/2022 | | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | <0.0005 |
| 2/10/2022 | <0.0005 | | | | | | |
| 2/11/2022 | | | | | <0.0005 | | |
| 8/30/2022 | | <0.0005 | | <0.0005 | | | |
| 8/31/2022 | <0.0005 | | <0.0005 | | <0.0005 | <0.0005 | <0.0005 |
| 2/7/2023 | | <0.0005 | <0.0005 | <0.0005 | | | |
| 2/8/2023 | <0.0005 | | | | <0.0005 | <0.0005 | 0.00013 (J) |
| 8/15/2023 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | |
| 8/16/2023 | | | | | <0.0005 | | <0.0005 |
| 2/20/2024 | | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 2/23/2024 | <0.0005 | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | | | |
| 6/9/2016 | | | | | 0.00055 (J) | <0.0005 | |
| 8/1/2016 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | | | |
| 8/2/2016 | | | | | 0.0001 (J) | <0.0005 | |
| 8/30/2016 | | | | | | | 0.0001 (J) |
| 9/20/2016 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | | | |
| 9/21/2016 | | | | | 0.0001 (J) | <0.0005 | |
| 11/7/2016 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | |
| 11/8/2016 | | | | | 9E-05 (J) | | |
| 11/14/2016 | | | | | | | 0.0001 (J) |
| 1/18/2017 | <0.0005 | <0.0005 | <0.0005 | | 9E-05 (J) | <0.0005 | |
| 1/19/2017 | | | | <0.0005 | | | |
| 2/21/2017 | <0.0005 | <0.0005 | | | | <0.0005 | |
| 2/22/2017 | | | | <0.0005 | 0.0001 (J) | | |
| 2/23/2017 | | | <0.0005 | | | | |
| 2/24/2017 | | | | | | | 9E-05 (J) |
| 5/3/2017 | | <0.0005 | | | | | |
| 5/5/2017 | | | | | 9E-05 (J) | <0.0005 | |
| 5/8/2017 | <0.0005 | | <0.0005 | <0.0005 | | | 0.0001 (J) |
| 6/30/2017 | | | <0.0005 | <0.0005 | | | |
| 7/5/2017 | | | | | 0.0002 (J) | | |
| 7/7/2017 | | | | | | <0.0005 | |
| 7/10/2017 | <0.0005 | <0.0005 | | | | | |
| 7/11/2017 | | | | | | | <0.0005 |
| 10/10/2017 | | | | | | | <0.0005 |
| 3/29/2018 | | | <0.0005 | <0.0005 | | | |
| 3/30/2018 | <0.0005 | <0.0005 | | | <0.0005 | <0.0005 | |
| 4/2/2018 | | | | | | | <0.0005 |
| 9/19/2018 | | | | | | | <0.0005 |
| 2/27/2019 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.00014 (J) | <0.0005 | |
| 4/1/2019 | | | <0.0005 | <0.0005 | 0.00043 (J) | | |
| 4/2/2019 | <0.0005 | <0.0005 | | | | <0.0005 | |
| 8/20/2019 | | | | | | | <0.0005 |
| 9/25/2019 | <0.0005 | <0.0005 | | | | | |
| 9/26/2019 | | | <0.0005 | <0.0005 | <0.0005 | <0.0005 | |
| 10/8/2019 | | | | | | | <0.0005 |
| 2/13/2020 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.00013 (J) | <0.0005 | |
| 3/17/2020 | | | | | | | <0.0005 |
| 3/19/2020 | | <0.0005 | | | 0.00016 (J) | <0.0005 | |
| 3/20/2020 | <0.0005 | | <0.0005 | <0.0005 | | | |
| 8/27/2020 | | | | | | | <0.0005 |
| 9/24/2020 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.00027 (J) | <0.0005 | |
| 2/10/2021 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | | | |
| 2/11/2021 | | | | | 0.00052 (J) | | |
| 2/12/2021 | | | | | | 0.00048 (J) | |
| 3/2/2021 | | <0.0005 | | | | | |
| 3/3/2021 | <0.0005 | | <0.0005 | <0.0005 | 0.00014 (J) | <0.0005 | |
| 8/19/2021 | | <0.0005 | | | | | <0.0005 |
| 8/20/2021 | <0.0005 | | <0.0005 | <0.0005 | 0.00027 (J) | <0.0005 | |
| 2/8/2022 | | | | <0.0005 | 0.00033 (J) | <0.0005 | <0.0005 |
| 2/10/2022 | <0.0005 | <0.0005 | <0.0005 | | | | |
| 8/31/2022 | <0.0005 | <0.0005 | | | | | <0.0005 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 9/1/2022 | | | <0.0005 | <0.0005 | 0.00017 (J) | <0.0005 | |
| 2/8/2023 | | | | | | | 0.00032 (J) |
| 2/9/2023 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | |
| 8/15/2023 | | | | | | | <0.0005 |
| 8/16/2023 | | | | | <0.0005 | <0.0005 | |
| 8/17/2023 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | | | |
| 2/20/2024 | | | | | | | <0.0005 |
| 2/21/2024 | | | <0.0005 | <0.0005 | <0.0005 | <0.0005 | |
| 2/22/2024 | <0.0005 | <0.0005 | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (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 | | |
| 10/11/2017 | | | | | | <0.0005 | |
| 10/12/2017 | | | | | | | <0.0005 |
| 11/20/2017 | | | | | | <0.0005 | <0.0005 |
| 1/10/2018 | | | | | | | <0.0005 |
| 1/11/2018 | | | | | | <0.0005 | |
| 2/19/2018 | | | | | | | <0.0005 |
| 2/20/2018 | | | | | | <0.0005 | |
| 3/28/2018 | <0.0005 | <0.0005 | <0.0005 | | | | |
| 3/29/2018 | | | | <0.0005 | <0.0005 | | |
| 4/3/2018 | | | | | | <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 | | | | |
| 6/28/2018 | | | | | | <0.0005 | <0.0005 |
| 8/7/2018 | | | | | | <0.0005 | <0.0005 |
| 9/24/2018 | | | | | | <0.0005 | <0.0005 |
| 9/25/2018 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 9.6E-05 (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 | | <0.0005 | <0.0005 | <0.0005 | | | |
| 8/21/2019 | | | | | | <0.0005 | <0.0005 |
| 9/24/2019 | | | | | <0.0005 | | |
| 9/25/2019 | <0.0005 | | | <0.0005 | | | |
| 9/26/2019 | | <0.0005 | <0.0005 | | | | |
| 10/9/2019 | | | | | | <0.0005 | <0.0005 |
| 2/11/2020 | <0.0005 | <0.0005 | <0.0005 | | | | |
| 2/12/2020 | | | | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 3/24/2020 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | | <0.0005 |
| 3/25/2020 | | | | | | <0.0005 | |
| 9/23/2020 | <0.0005 | <0.0005 | <0.0005 | | | | |
| 9/24/2020 | | | | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 2/9/2021 | | <0.0005 | <0.0005 | <0.0005 | 0.00041 (J) | | |
| 2/10/2021 | | | | | | 0.00019 (J) | <0.0005 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 3/3/2021 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | | | |
| 3/4/2021 | | | | | <0.0005 | 0.0003 (J) | <0.0005 |
| 8/26/2021 | | | <0.0005 | | | 0.00049 (J) | |
| 8/27/2021 | <0.0005 | <0.0005 | | <0.0005 | | | |
| 9/1/2021 | | | | | <0.0005 | | |
| 9/3/2021 | | | | | | | <0.0005 |
| 2/8/2022 | | | | | | 0.00063 | <0.0005 |
| 2/9/2022 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | | |
| 8/30/2022 | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | | |
| 8/31/2022 | | | | <0.0005 | | 0.00044 (J) | <0.0005 |
| 2/7/2023 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.00012 (J) | 0.00014 (J) | |
| 2/8/2023 | | | | | | | <0.0005 |
| 8/15/2023 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 2/20/2024 | <0.0005 | <0.0005 | | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 2/23/2024 | | | <0.0005 | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 5/1/2007 | | | | <0.0005 | |
| 9/11/2007 | | | | <0.0005 | |
| 3/20/2008 | | | | <0.0005 | |
| 8/27/2008 | | | | <0.0005 | |
| 3/3/2009 | | | | <0.0005 | |
| 11/18/2009 | | | | <0.0005 | |
| 3/3/2010 | | | | <0.0005 | |
| 9/8/2010 | | | | <0.0005 | |
| 3/10/2011 | | | | <0.0005 | |
| 9/8/2011 | | | | <0.0005 | |
| 3/5/2012 | | | | <0.0005 | |
| 9/10/2012 | | | | <0.0005 | |
| 2/6/2013 | | | | <0.0005 | |
| 8/12/2013 | | | | <0.0005 | |
| 2/5/2014 | | | | <0.0005 | |
| 8/5/2014 | | | | <0.0005 | |
| 2/4/2015 | | | | <0.0005 | |
| 8/3/2015 | | | | <0.0005 | |
| 2/16/2016 | | | | <0.0005 | |
| 6/2/2016 | <0.0005 | <0.0005 | <0.0005 | | |
| 6/9/2016 | | | | | <0.0025 |
| 7/26/2016 | <0.0005 | <0.0005 | <0.0005 | | |
| 8/2/2016 | | | | | 0.0001 (J) |
| 8/31/2016 | | | | <0.0005 | |
| 9/14/2016 | <0.0005 | <0.0005 | <0.0005 | | |
| 9/21/2016 | | | | | 0.0002 (J) |
| 11/2/2016 | <0.0005 | <0.0005 | | | |
| 11/4/2016 | | | <0.0005 | | |
| 11/7/2016 | | | | | 0.0002 (J) |
| 11/28/2016 | | | | <0.0005 | |
| 1/12/2017 | | <0.0005 | 9E-05 (J) | | |
| 1/13/2017 | <0.0005 | | | | |
| 1/19/2017 | | | | | 0.0001 (J) |
| 2/22/2017 | | | | <0.0005 | 0.0001 (J) |
| 3/6/2017 | <0.0005 | | | | |
| 3/7/2017 | | <0.0005 | <0.0005 | | |
| 5/1/2017 | <0.0005 | <0.0005 | | | |
| 5/2/2017 | | | <0.0005 | | |
| 5/8/2017 | | | | <0.0005 | 0.0002 (J) |
| 6/27/2017 | | <0.0005 | <0.0005 | | |
| 6/29/2017 | <0.0005 | | | | |
| 7/5/2017 | | | | | 0.0002 (J) |
| 7/17/2017 | | | | <0.0005 | |
| 10/16/2017 | | | | <0.0005 | |
| 2/19/2018 | | | | <0.0005 | |
| 3/29/2018 | <0.0005 | <0.0005 | <0.0005 | | <0.0025 |
| 6/6/2018 | | <0.0005 | | | |
| 6/7/2018 | <0.0005 | | <0.0005 | | |
| 8/6/2018 | | | | <0.0005 | |
| 9/26/2018 | <0.0005 | <0.0005 | <0.0005 | | |
| 2/25/2019 | | | | <0.0005 | |
| 2/27/2019 | | | | | 0.00026 (J) |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 3/4/2019 | <0.0005 | <0.0005 | <0.0005 | | |
| 4/1/2019 | | | | | 0.00022 (J) |
| 4/3/2019 | <0.0005 | <0.0005 | <0.0005 | | |
| 6/12/2019 | | | | <0.0005 | |
| 8/19/2019 | | | | <0.0005 | |
| 9/24/2019 | | <0.0005 | <0.0005 | | |
| 9/25/2019 | <0.0005 | | | | 0.00024 (J) |
| 10/8/2019 | | | | <0.0005 | |
| 2/12/2020 | <0.0005 | <0.0005 | <0.0005 | | |
| 2/13/2020 | | | | | 0.00018 (J) |
| 3/17/2020 | | | | <0.0005 | |
| 3/20/2020 | | | | | 0.00022 (J) |
| 3/24/2020 | | <0.0005 | <0.0005 | | |
| 3/25/2020 | <0.0005 | | | | |
| 8/26/2020 | | | | <0.0005 | |
| 9/22/2020 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | |
| 9/24/2020 | | | | | 0.00033 (J) |
| 2/8/2021 | | <0.0005 | <0.0005 | | |
| 2/9/2021 | <0.0005 | | | | |
| 2/12/2021 | | | | | <0.0025 |
| 3/2/2021 | | <0.0005 | <0.0005 | <0.0005 | |
| 3/3/2021 | <0.0005 | | | | 0.00029 (J) |
| 8/20/2021 | | | | <0.0005 | 0.00027 (J) |
| 8/26/2021 | <0.0005 | <0.0005 | <0.0005 | | |
| 2/8/2022 | | | | <0.0005 | 0.00019 (J) |
| 2/10/2022 | | <0.0005 | <0.0005 | | |
| 2/11/2022 | <0.0005 | | | | |
| 8/30/2022 | | <0.0005 | <0.0005 | <0.0005 | |
| 8/31/2022 | <0.0005 | | | | |
| 9/1/2022 | | | | | 0.0002 (J) |
| 2/7/2023 | | <0.0005 | | 0.00012 (J) | |
| 2/8/2023 | | | | | 0.00028 (J) |
| 2/9/2023 | <0.0005 | | <0.0005 | | |
| 8/2/2023 | | | | | 0.00016 (J) |
| 8/15/2023 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | |
| 2/20/2024 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | |
| 2/22/2024 | | | | | 0.00012 (J) |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 6/1/2016 | | 12 | 2.5 | | | | 21 |
| 6/2/2016 | 1.3 | | | | 1.3 | 28 | |
| 7/25/2016 | | | 2.16 | | 1.17 | | 20.3 |
| 7/26/2016 | 1.24 | 11 | | | | 24.5 | |
| 9/13/2016 | | 11.8 | 2.21 | | | | |
| 9/14/2016 | | | | 23.5 | | | 19.7 |
| 9/15/2016 | 1.17 | | | | | 27 | |
| 9/19/2016 | | | | | 1.05 | | |
| 11/1/2016 | | 11 | | | 1.14 | 25.6 | 18.4 |
| 11/2/2016 | 1.23 | | | | | | |
| 11/4/2016 | | | 2.67 | 23.7 | | | |
| 12/15/2016 | | | | 23.1 | | | |
| 1/10/2017 | 1.24 | | | | | | |
| 1/11/2017 | | 11.2 | | | | 27.5 | 20.3 |
| 1/16/2017 | | | 2.45 | 23.3 | 1.23 | | |
| 2/21/2017 | | | | | 1.25 | | |
| 3/1/2017 | | | | | | | 18.6 |
| 3/2/2017 | | 11 | 2.57 | | | 27.5 | |
| 3/3/2017 | | | | 25.1 | | | |
| 3/8/2017 | 1.21 | | | | | | |
| 4/26/2017 | 1.14 | | | | 1.03 | 30.4 | 25.6 |
| 4/27/2017 | | 11.1 | 2.38 | | | | |
| 4/28/2017 | | | | 30.7 | | | |
| 5/26/2017 | | | | 26.2 | | | |
| 6/27/2017 | | 13.8 | 2.36 | | | | |
| 6/28/2017 | | | | 26.1 | | 29.8 | 23.9 |
| 6/30/2017 | 1.24 | | | | 1.13 | | |
| 10/3/2017 | | 14 | 2.21 | 26.7 | | | |
| 10/4/2017 | | | | | 1.09 | 29.7 | 22.1 |
| 10/5/2017 | 1.11 | | | | | | |
| 6/5/2018 | | 15.2 (J) | | | | | |
| 6/6/2018 | | | 2.3 | | | | |
| 6/7/2018 | | | | 25 | | 29.1 | |
| 6/8/2018 | 1.1 | | | | | | 21.9 (J) |
| 6/11/2018 | | | | | 1.1 | | |
| 10/1/2018 | 0.99 | 15.1 | 1.8 | 25 | | 26.9 | 19.7 |
| 10/2/2018 | | | | | 1.1 | | |
| 3/28/2019 | | 13.3 (J) | 2.2 | | | | |
| 3/29/2019 | 1.1 | | | 23.5 (J) | | | |
| 4/1/2019 | | | | | 1.3 | 30.1 | 20.4 (J) |
| 9/24/2019 | | 15.8 | 2.3 | 26.4 | | | |
| 9/25/2019 | 1.1 | | | | 1.1 | 29.5 | 22.4 |
| 3/18/2020 | 1.1 | | 2.1 | | | | |
| 3/19/2020 | | 15 | | 27.4 | 1.2 | 31.5 | 21.9 |
| 9/23/2020 | | 14.1 | 1.8 | 26.3 | | 28.6 | 23.6 |
| 9/24/2020 | | | | | 1.1 | | |
| 9/25/2020 | 1.3 | | | | | | |
| 3/1/2021 | | | | | 1.2 | | |
| 3/2/2021 | 1.2 | | | | | | |
| 3/3/2021 | | 14.1 | 1.8 | 25.6 | | 29.8 | 20.6 |
| 8/19/2021 | 1.2 | 14.2 | 2 | | 1.2 | 28.1 | |
| 8/27/2021 | | | | 22.6 | | | 24.7 |

# Time Series

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 2/9/2022 | | 14.9 | 2.1 | 23.4 | | 30.3 | 23.7 |
| 2/10/2022 | 1.3 | | | | | | |
| 2/11/2022 | | | | | 1.5 | | |
| 8/30/2022 | | 14.9 | | 25.4 | | | |
| 8/31/2022 | 1.3 | | 1.9 | | 1.3 | 28.7 | 23.5 |
| 2/7/2023 | | 15 | 2.2 | 25.6 | | | |
| 2/8/2023 | 1.5 | | | | 1.3 | 28.9 | 23.3 |
| 8/15/2023 | 1.3 | 13.5 | 1.8 | 23.2 | | 27.4 | |
| 8/16/2023 | | | | | 1.4 | | 24.9 |
| 2/20/2024 | | 15.3 | 2.2 | 28.2 | 1.3 | 30.7 | 23.7 |
| 2/23/2024 | 1.6 | | | | | | |

# Time Series

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | 15 | 13 | 25 | 44 | | | |
| 6/9/2016 | | | | | 36 | 26 | |
| 8/1/2016 | 14.5 | 12.2 | 21.4 | 36.3 | | | |
| 8/2/2016 | | | | | 35.5 | 25.8 | |
| 8/30/2016 | | | | | | | 20.9 |
| 9/20/2016 | 15.3 | 12.2 | 26.3 | 39.5 | | | |
| 9/21/2016 | | | | | 33.2 | 24.9 | |
| 11/7/2016 | 13.8 | 12.1 | 26.1 | 34.9 | | 25.1 | |
| 11/8/2016 | | | | | 33.8 | | |
| 11/14/2016 | | | | | | | 18.6 |
| 1/18/2017 | 15.1 | 11.5 | 25.6 | | 33.4 | 26.1 | |
| 1/19/2017 | | | | 37 | | | |
| 2/21/2017 | 14.6 | 11.7 | | | | 29 | |
| 2/22/2017 | | | | 37.6 | 33.8 | | |
| 2/23/2017 | | | 28.2 | | | | |
| 2/24/2017 | | | | | | | 16.1 |
| 5/3/2017 | | 11.9 | | | | | |
| 5/5/2017 | | | | | 33.5 | 28.1 | |
| 5/8/2017 | 15.2 | | 27.2 | 35.7 | | | 14.6 |
| 6/30/2017 | | | 27.2 | 36.2 | | | |
| 7/5/2017 | | | | | 33.4 | | |
| 7/7/2017 | | | | | | 28.6 | |
| 7/10/2017 | 17.4 | 12.7 | | | | | |
| 7/11/2017 | | | | | | | 14.3 |
| 10/5/2017 | | | | | 36.4 | | |
| 10/6/2017 | | | | 39.8 | | | |
| 10/9/2017 | | | 27.3 | | | 27.3 | |
| 10/10/2017 | 15.5 | 11.4 | | | | | 12.1 |
| 4/2/2018 | | | | | | | <25 |
| 6/12/2018 | | | | 36.2 | 33.4 | 26.4 | |
| 6/13/2018 | 15.5 | 12.5 | 29.4 | | | | |
| 9/19/2018 | | | | | | | 11.1 (J) |
| 10/2/2018 | 14.7 | 12.4 (J) | 29.2 | 39.1 | | | |
| 10/3/2018 | | | | | 32.6 | 25.8 | |
| 3/27/2019 | | | | | | | 10.8 (J) |
| 4/1/2019 | | | 27.4 | 38 | 33.8 | | |
| 4/2/2019 | 16.1 (J) | 11.9 (J) | | | | 25.7 | |
| 9/25/2019 | 15.6 | 11.6 | | | | | |
| 9/26/2019 | | | 24.2 | 37.5 | 32 | 26.1 | |
| 10/8/2019 | | | | | | | 9.7 |
| 3/17/2020 | | | | | | | 14.8 |
| 3/19/2020 | | 13 | | | 37.3 | 30.4 | |
| 3/20/2020 | 17.1 | | 30.3 | 42.1 | | | |
| 9/22/2020 | | | | | | | 10.1 |
| 9/24/2020 | 16.9 | 11.3 | 27.9 | 38.6 | 34.3 | 30.8 | |
| 3/1/2021 | | | | | | | 10.3 |
| 3/2/2021 | | 12.9 | | | | | |
| 3/3/2021 | 16.1 | | 25.7 | 30.2 | 30.9 | 28.4 | |
| 8/19/2021 | | 11.5 | | | | | 9.6 |
| 8/20/2021 | 17.2 | | 25.7 | 29.9 | 33.1 | 27.8 | |
| 2/8/2022 | | | | 27.2 | 31.8 | 26.7 | 9.4 |
| 2/10/2022 | 16.4 | 11.6 | 27.4 | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 8/31/2022 | 16.4 | 10.8 | | | | | 9.6 |
| 9/1/2022 | | | 28.2 | 21.3 | 26.3 | 33.1 | |
| 2/8/2023 | | | | | | | 9.2 |
| 2/9/2023 | 15.8 | 10.7 | 26.9 | 20.1 | 27.7 | 33.1 | |
| 8/15/2023 | | | | | | | 9.6 |
| 8/16/2023 | | | | | 27.3 | 31.2 | |
| 8/17/2023 | 15.6 | 10.8 | 25.4 | 20.8 | | | |
| 2/20/2024 | | | | | | | 10.3 |
| 2/21/2024 | | | 27.7 | 20.4 | 27.8 | 31 | |
| 2/22/2024 | 16.7 | 11 | | | | | |

# Time Series

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (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 | | | | | |
| 10/11/2017 | | | | | | 2.74 | |
| 10/12/2017 | | | | | | | 2.9 |
| 11/20/2017 | | | | | | 1.81 | 10.4 |
| 1/10/2018 | | | | | | | 10.2 |
| 1/11/2018 | | | | | | 1.54 | |
| 2/19/2018 | | | | | | | <25 |
| 2/20/2018 | | | | | | 1.71 | |
| 4/3/2018 | | | | | | 1.4 | 6.3 |
| 6/5/2018 | | | | | 9.1 | | |
| 6/6/2018 | | | | 2.3 | | | |
| 6/7/2018 | | 4.8 | | | | | |
| 6/11/2018 | 2.1 | | 1.4 | | | | |
| 6/28/2018 | | | | | | 1.4 | 6.7 |
| 8/7/2018 | | | | | | 1.2 | 6.3 |
| 9/24/2018 | | | | | | 1.1 | 5.7 |
| 9/25/2018 | 2.1 | 4.6 | 1 | 2.3 | 10.4 (J) | | |
| 3/26/2019 | | | | | | | 5.6 |
| 3/27/2019 | | | | | | 1.5 | |
| 4/2/2019 | 2.5 | | | | 8.8 | | |
| 4/3/2019 | | 5.3 | 1.2 | 2.9 | | | |
| 9/24/2019 | | | | | 7.7 | | |
| 9/25/2019 | 2.6 | | | 2.4 | | | |
| 9/26/2019 | | 4.9 | 1.1 | | | | |
| 10/9/2019 | | | | | | 2.4 | 4.9 |
| 3/24/2020 | 2.7 | 5.3 | 1 | 2.6 | 6 | | 4.8 |
| 3/25/2020 | | | | | | 2.7 | |
| 9/23/2020 | 2.6 | 5.2 | 0.91 (J) | | | | |
| 9/24/2020 | | | | 2.6 | 7.8 | 3.7 | 4.4 |
| 3/3/2021 | 2.5 | 5.2 | 0.96 (J) | 2.4 | | | |
| 3/4/2021 | | | | | 8.7 | 8.2 | 4.6 |
| 8/26/2021 | | | 0.98 (J) | | | 14.1 | |
| 8/27/2021 | 2.7 | 5.1 | | 2.4 | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 9/1/2021 | | | | | 9.5 | | |
| 9/3/2021 | | | | | | | 5.6 |
| 2/8/2022 | | | | | | 15.2 | 6 |
| 2/9/2022 | 2.8 | 5.1 | 0.87 (J) | 2.3 | 9.8 | | |
| 8/30/2022 | 3 | 5.7 | 0.77 (J) | | 7.3 | | |
| 8/31/2022 | | | | 2.4 | | 16.3 | 6.2 |
| 2/7/2023 | 2.9 | 5.5 | 0.79 (J) | 2.4 | 7.5 | 16.1 | |
| 2/8/2023 | | | | | | | 5.9 |
| 8/15/2023 | 2.9 | 5.1 | 0.8 (J) | 2.2 | 6.1 | 17.2 | 5.3 |
| 2/20/2024 | 3.2 | 5.6 | | 2.5 | 7 | 16.9 | 5.6 |
| 2/23/2024 | | | 0.84 (J) | | | | |

# Time Series

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 6/2/2016 | 8.8 | 33 | 2.4 | | |
| 6/9/2016 | | | | | 12 |
| 7/26/2016 | 7.69 | 32.3 | 2.12 | | |
| 8/2/2016 | | | | | 11.7 |
| 8/31/2016 | | | | 9.31 | |
| 9/14/2016 | 8.49 | 31 | 2.18 | | |
| 9/21/2016 | | | | | 11.1 |
| 11/2/2016 | 7.83 | 30.9 | | | |
| 11/4/2016 | | | 2.17 (J) | | |
| 11/7/2016 | | | | | 11.4 |
| 11/28/2016 | | | | 9.47 (B) | |
| 1/12/2017 | | 35.7 | 2.37 | | |
| 1/13/2017 | 8.08 | | | | |
| 1/19/2017 | | | | | 12 |
| 2/22/2017 | | | | 10.4 | 11.2 |
| 3/6/2017 | 8.64 | | | | |
| 3/7/2017 | | 32.7 | 2.34 | | |
| 5/1/2017 | 13.4 | 37 | | | |
| 5/2/2017 | | | 2.17 | | |
| 5/8/2017 | | | | 14.2 | 11.2 |
| 6/27/2017 | | 36.5 | 2.13 | | |
| 6/29/2017 | 8.81 | | | | |
| 7/5/2017 | | | | | 11.9 |
| 7/17/2017 | | | | 14.1 | |
| 10/3/2017 | | 30.9 | 2.15 | | |
| 10/5/2017 | 9.29 | | | | 12 |
| 10/16/2017 | | | | 13.6 | |
| 2/19/2018 | | | | <25 | |
| 6/6/2018 | | 26.2 | | | |
| 6/7/2018 | 8.2 | | 2.3 | | |
| 6/11/2018 | | | | | 12.1 |
| 8/6/2018 | | | | 11.4 (J) | |
| 9/26/2018 | 9.5 (J) | 25.8 | 2.3 | | |
| 10/2/2018 | | | | | 11.7 (J) |
| 2/25/2019 | | | | 12.7 (J) | |
| 4/1/2019 | | | | | 11.9 (J) |
| 4/3/2019 | 8.4 | 24.7 (J) | 2.8 | | |
| 6/12/2019 | | | | 18.9 | |
| 9/24/2019 | | 25.8 | 2.5 | | |
| 9/25/2019 | 9.5 | | | | 10.7 |
| 10/8/2019 | | | | 28.3 | |
| 3/17/2020 | | | | 24.3 | |
| 3/20/2020 | | | | | 12.7 |
| 3/24/2020 | | 26.1 | 2.5 | | |
| 3/25/2020 | 10.5 | | | | |
| 9/22/2020 | 9.6 | 27.2 | 2.6 | 31 | |
| 9/24/2020 | | | | | 12.4 |
| 3/2/2021 | | 1.6 | 2.6 | 34.2 | |
| 3/3/2021 | 7.7 | | | | 9.5 |
| 8/20/2021 | | | | 26.5 | 10.2 |
| 8/26/2021 | 7.6 | 25.2 | 2.5 | | |
| 2/8/2022 | | | | 25.6 | 9.3 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 2/10/2022 | | 24.8 | 2.5 | | |
| 2/11/2022 | 7.5 | | | | |
| 8/30/2022 | | 24.8 | 2.5 | 23.5 | |
| 8/31/2022 | 8.9 | | | | |
| 9/1/2022 | | | | | 11 |
| 2/7/2023 | | 26.6 | | 22.3 | |
| 2/8/2023 | | | | | 11.9 |
| 2/9/2023 | 9.6 | | 2.8 | | |
| 8/2/2023 | | | | | 11.8 |
| 8/15/2023 | 7.8 | 25 | 2.6 | 20.3 | |
| 2/20/2024 | 9.9 | 27.2 | 2.7 | 22.8 | |
| 2/22/2024 | | | | | 11.5 |

# Time Series

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 6/1/2016 | | 1.3 | 1.6 | | | | 1.3 |
| 6/2/2016 | 4.1 | | | | 1.9 | 1.4 | |
| 7/25/2016 | | | 1.4 | | 1.7 | | 1.3 |
| 7/26/2016 | 4 | 1.2 | | | | 1.6 | |
| 9/13/2016 | | 1.1 | 1.3 | | | | |
| 9/14/2016 | | | | 1.1 | | | 1.3 |
| 9/15/2016 | 4.2 | | | | | 1.5 | |
| 9/19/2016 | | | | | 1.6 | | |
| 11/1/2016 | | 1.3 | | | 1.8 | 1.7 | 1.4 |
| 11/2/2016 | 4.9 | | | | | | |
| 11/4/2016 | | | 1.6 | 1.4 | | | |
| 12/15/2016 | | | | 2.9 | | | |
| 1/10/2017 | 4.1 | | | | | | |
| 1/11/2017 | | 1.1 | | | | 1.2 | 1.1 |
| 1/16/2017 | | | 1.4 | 0.98 | 1.7 | | |
| 2/21/2017 | | | | | 1.7 | | |
| 3/1/2017 | | | | | | | 1.1 |
| 3/2/2017 | | 1 | 1.3 | | | 1.2 | |
| 3/3/2017 | | | | 1.1 | | | |
| 3/8/2017 | 4.2 | | | | | | |
| 4/26/2017 | 4.1 | | | | 1.7 | 1.2 | 1.1 |
| 4/27/2017 | | 1 | 1.3 | | | | |
| 4/28/2017 | | | | 0.91 | | | |
| 5/26/2017 | | | | 0.93 | | | |
| 6/27/2017 | | 1.1 | 1.4 | | | | |
| 6/28/2017 | | | | 1 | | 1.3 | 1.2 |
| 6/30/2017 | 3.7 | | | | 1.8 | | |
| 10/3/2017 | | 1.1 | 1.7 | 1.2 | | | |
| 10/4/2017 | | | | | 1.8 | 1.5 | 1.2 |
| 10/5/2017 | 3.8 | | | | | | |
| 6/5/2018 | | 1.1 | | | | | |
| 6/6/2018 | | | 1.4 | | | | |
| 6/7/2018 | | | | 1 | | 1.2 | |
| 6/8/2018 | 3.4 | | | | | | 1.2 |
| 6/11/2018 | | | | | 2 | | |
| 10/1/2018 | 3.8 | 1.1 | 1.4 | 1.1 | | 1.5 | 1.2 |
| 10/2/2018 | | | | | 1.8 | | |
| 3/28/2019 | | 1.4 | 1.5 | | | | |
| 3/29/2019 | 4.2 | | | 1.2 | | | |
| 4/1/2019 | | | | | 1.7 | 1.2 | 1.1 |
| 9/24/2019 | | 1.1 | 1.3 | 0.95 (J) | | | |
| 9/25/2019 | 4.8 | | | | 1.6 | 1.1 | 1.1 |
| 3/18/2020 | 5.2 | | 1.4 | | | | |
| 3/19/2020 | | 1.1 | | 0.97 (J) | 1.8 | 1.2 | 1.1 |
| 9/23/2020 | | 0.99 (J) | 1.2 | 0.88 (J) | | 1.1 | 1 |
| 9/24/2020 | | | | | 1.5 | | |
| 9/25/2020 | 5.3 | | | | | | |
| 3/1/2021 | | | | | 1.6 | | |
| 3/2/2021 | 4.9 | | | | | | |
| 3/3/2021 | | 0.96 (J) | 1.2 | 0.86 (J) | | 1.1 | 0.99 (J) |
| 8/19/2021 | 5 | 1.1 | 1.3 | | 1.6 | 1.1 | |
| 8/27/2021 | | | | 0.99 (J) | | | 1.1 |

# Time Series

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 2/9/2022 | | 1 | 1.3 | 1 (J) | | 1.1 | 1.1 |
| 2/10/2022 | 4.7 | | | | | | |
| 2/11/2022 | | | | | 2.1 | | |
| 8/30/2022 | | 1.3 | | 1.2 | | | |
| 8/31/2022 | 4.6 | | 1.5 | | 1.8 | 1.3 | 1.3 |
| 2/7/2023 | | 1.3 | 1.5 | 1.1 | | | |
| 2/8/2023 | 4.9 | | | | 1.6 | 1.2 | 1.1 |
| 8/15/2023 | 4.1 | 1.1 | 1.4 | 0.93 (J) | | 1.1 | |
| 8/16/2023 | | | | | 1.5 | | 1.1 |
| 2/20/2024 | | 1 | 1.2 | 0.96 (J) | 1.4 | 1.1 | 1.1 |
| 2/23/2024 | 4.8 | | | | | | |

# Time Series

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | 19 | 18 | 14 | 22 | | | |
| 6/9/2016 | | | | | 18 | 19 | |
| 8/1/2016 | 17 | 16 | 13 | 21 | | | |
| 8/2/2016 | | | | | 18 | 18 | |
| 8/30/2016 | | | | | | | 5.2 |
| 9/20/2016 | 18 | 18 | 13 | 22 | | | |
| 9/21/2016 | | | | | 18 | 19 | |
| 11/7/2016 | 17 | 16 | 14 | 24 | | 20 | |
| 11/8/2016 | | | | | 18 | | |
| 11/14/2016 | | | | | | | 6.4 |
| 1/18/2017 | 19 | 17 | 14 | | 18 | 20 | |
| 1/19/2017 | | | | 22 | | | |
| 2/21/2017 | 18 | 16 | | | | 19 | |
| 2/22/2017 | | | | 21 | 18 | | |
| 2/23/2017 | | | 14 | | | | |
| 2/24/2017 | | | | | | | 5.5 |
| 5/3/2017 | | 17 | | | | | |
| 5/5/2017 | | | | | 19 | 21 | |
| 5/8/2017 | 18 | | 14 | 22 | | | 5.8 |
| 6/30/2017 | | | 14 | 21 | | | |
| 7/5/2017 | | | | | 18 | | |
| 7/7/2017 | | | | | | 20 | |
| 7/10/2017 | 19 | 15 | | | | | |
| 7/11/2017 | | | | | | | 5.8 |
| 10/5/2017 | | | | | 19 | | |
| 10/6/2017 | | | | 21 | | | |
| 10/9/2017 | | | 14 | | | 20 | |
| 10/10/2017 | 19 | 15 | | | | | 5.9 |
| 4/2/2018 | | | | | | | 4.8 |
| 6/12/2018 | | | | 19.8 | 17.6 | 19.3 | |
| 6/13/2018 | 18.1 | 14.2 | 13.1 | | | | |
| 9/19/2018 | | | | | | | 4 |
| 10/2/2018 | 18.3 | 14 | 13.8 | 19.9 | | | |
| 10/3/2018 | | | | | 17.7 | 20.2 | |
| 3/27/2019 | | | | | | | 4.3 |
| 4/1/2019 | | | 14.2 | 19.7 | 17.2 | | |
| 4/2/2019 | 17.9 | 13.5 | | | | 19.5 | |
| 9/25/2019 | 17.1 | 14.4 | | | | | |
| 9/26/2019 | | | 14.3 | 19.6 | 17.3 | 19.5 | |
| 10/8/2019 | | | | | | | 4.4 |
| 3/17/2020 | | | | | | | 4.1 |
| 3/19/2020 | | 15.4 | | | 16 | 18.1 | |
| 3/20/2020 | 17.7 | | 13 | 17.7 | | | |
| 9/22/2020 | | | | | | | 4.2 |
| 9/24/2020 | 17.1 | 15.7 | 13.3 | 17 | 15.1 | 18 | |
| 3/1/2021 | | | | | | | 3.7 |
| 3/2/2021 | | 13.2 | | | | | |
| 3/3/2021 | 16.6 | | 13 | 4 | 14.6 | 18 | |
| 8/19/2021 | | 13.5 | | | | | 3.5 |
| 8/20/2021 | 14.4 | | 13.7 | 15.2 | 15.2 | 18.1 | |
| 2/8/2022 | | | | 13 | 15.2 | 18.3 | 3.2 |
| 2/10/2022 | 15.4 | 14 | 13.1 | | | | |

# Time Series

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 8/31/2022 | 16.6 | 15 | | | | | 3.5 |
| 9/1/2022 | | | 13.4 | 10.4 | 10.4 | 16.5 | |
| 2/8/2023 | | | | | | | 3.5 |
| 2/9/2023 | 16.6 | 15.1 | 13.9 | 11.5 | 11.5 | 18.1 | |
| 8/15/2023 | | | | | | | 3.5 |
| 8/16/2023 | | | | | 10.5 | 16.8 | |
| 8/17/2023 | 15.7 | 14.4 | 12.9 | 11.7 | | | |
| 2/20/2024 | | | | | | | 3.2 |
| 2/21/2024 | | | 12.5 | 12.6 | 10.4 | 17.5 | |
| 2/22/2024 | 16 | 14.9 | | | | | |

# Time Series

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (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 | | | | | |
| 10/11/2017 | | | | | | 2.4 | |
| 10/12/2017 | | | | | | | 3.8 |
| 11/20/2017 | | | | | | 1.8 | 4.4 |
| 1/10/2018 | | | | | | | 4.6 |
| 1/11/2018 | | | | | | 1.6 | |
| 2/19/2018 | | | | | | | 4.6 |
| 2/20/2018 | | | | | | 2 | |
| 4/3/2018 | | | | | | 3.3 | 5.9 |
| 6/5/2018 | | | | | 1.7 | | |
| 6/6/2018 | | | | 2.7 | | | |
| 6/7/2018 | | 6.8 | | | | | |
| 6/11/2018 | 4.9 | | 6.8 | | | | |
| 6/28/2018 | | | | | | 2.1 | 5 |
| 8/7/2018 | | | | | | 1.2 | 4.3 |
| 9/24/2018 | | | | | | 1.3 | 4.9 |
| 9/25/2018 | 5.6 | 7.9 | 7.8 | 3.6 | 2.2 | | |
| 3/26/2019 | | | | | | | 4.4 |
| 3/27/2019 | | | | | | 1.4 | |
| 4/2/2019 | 4.8 | | | | 2.5 | | |
| 4/3/2019 | | 6.9 | 6.3 | 3.1 | | | |
| 9/24/2019 | | | | | 3.1 | | |
| 9/25/2019 | 5.7 | | | 2.8 | | | |
| 9/26/2019 | | 7 | 7.1 | | | | |
| 10/9/2019 | | | | | | 2.1 | 5.1 |
| 3/24/2020 | 5 | 7 | 6.8 | 2.7 | 2.8 | | 4.7 |
| 3/25/2020 | | | | | | 1.9 | |
| 9/23/2020 | 6.6 | 7.2 | 7.2 | | | | |
| 9/24/2020 | | | | 2.7 | 2 | 2.7 | 5 |
| 3/3/2021 | 7.1 | 7 | 7.2 | 2.7 | | | |
| 3/4/2021 | | | | | 1.8 | 4.9 | 4.9 |
| 8/26/2021 | | | 7.3 | | | 7.2 | |
| 8/27/2021 | 8.5 | 7.4 | | 2.8 | | | |

# Time Series

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 9/1/2021 | | | | | 1.8 | | |
| 9/3/2021 | | | | | | | 5.5 |
| 2/8/2022 | | | | | | 7.4 | 6.2 |
| 2/9/2022 | 10.9 | 7.5 | 7 | 2.8 | 1.7 | | |
| 8/30/2022 | 12 | 7.9 | 7 | | 2.4 | | |
| 8/31/2022 | | | | 2.9 | | 6.7 | 6.3 |
| 2/7/2023 | 11.4 | 7.4 | 6.4 | 2.9 | 2.4 | 5.6 | |
| 2/8/2023 | | | | | | | 6.9 |
| 8/15/2023 | 11.6 | 7.3 | 6.7 | 2.8 | 2.3 | 4.5 | 5.6 |
| 2/20/2024 | 12.2 | 7.6 | | 2.9 | 2.3 | 4.6 | 5.7 |
| 2/23/2024 | | | 6.6 | | | | |

# Time Series

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 6/2/2016 | 3.7 | 7.2 | 4.3 | | |
| 6/9/2016 | | | | | 15 |
| 7/26/2016 | 3.6 | 6.6 | 4.4 | | |
| 8/2/2016 | | | | | 14 |
| 8/31/2016 | | | | 4 | |
| 9/14/2016 | 3.4 | 6.6 | 3.8 | | |
| 9/21/2016 | | | | | 14 |
| 11/2/2016 | 4.5 | 7.6 | | | |
| 11/4/2016 | | | 4.8 | | |
| 11/7/2016 | | | | | 14 |
| 11/28/2016 | | | | 4.2 | |
| 1/12/2017 | | 6.8 | 3.8 | | |
| 1/13/2017 | 4.2 | | | | |
| 1/19/2017 | | | | | 14 |
| 2/22/2017 | | | | 3.7 | 13 |
| 3/6/2017 | 3.6 | | | | |
| 3/7/2017 | | 6.8 | 4.5 | | |
| 5/1/2017 | 4.3 | 7.2 | | | |
| 5/2/2017 | | | 4.6 | | |
| 5/8/2017 | | | | 4.2 | 15 |
| 6/27/2017 | | 7 | 4.3 | | |
| 6/29/2017 | 4.2 | | | | |
| 7/5/2017 | | | | | 14 |
| 7/17/2017 | | | | 3.8 | |
| 10/3/2017 | | 6.5 | 4.2 | | |
| 10/5/2017 | 4.7 | | | | 15 |
| 10/16/2017 | | | | 4.2 | |
| 2/19/2018 | | | | 4.3 | |
| 6/6/2018 | | 4.7 | | | |
| 6/7/2018 | 4.4 | | 4.5 | | |
| 6/11/2018 | | | | | 13.6 |
| 8/6/2018 | | | | 3.8 | |
| 9/26/2018 | 4.8 | 4.8 | 5.1 | | |
| 10/2/2018 | | | | | 13.4 |
| 2/25/2019 | | | | 4.1 | |
| 4/1/2019 | | | | | 13.1 |
| 4/3/2019 | 4.3 | 4 | 4.2 | | |
| 6/12/2019 | | | | 4.7 | |
| 9/24/2019 | | 3.7 | 4.5 | | |
| 9/25/2019 | 4.5 | | | | 11.3 |
| 10/8/2019 | | | | 5.1 | |
| 3/17/2020 | | | | 4.8 | |
| 3/20/2020 | | | | | 11.3 |
| 3/24/2020 | | 3.5 | 4.3 | | |
| 3/25/2020 | 3.9 | | | | |
| 9/22/2020 | 4.5 | 3.6 | 4.2 | 4.2 | |
| 9/24/2020 | | | | | 10.9 |
| 3/2/2021 | | 3.2 | 4.3 | 4.1 | |
| 3/3/2021 | 4.1 | | | | 6.7 |
| 8/20/2021 | | | | 5.2 | 6.8 |
| 8/26/2021 | 4.4 | 3.4 | 4.3 | | |
| 2/8/2022 | | | | 5.7 | 5.5 |

# Time Series

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 2/10/2022 | | 3.2 | 4.4 | | |
| 2/11/2022 | 4.1 | | | | |
| 8/30/2022 | | 3.5 | 4.4 | 6.3 | |
| 8/31/2022 | 4.4 | | | | |
| 9/1/2022 | | | | | 8.1 |
| 2/7/2023 | | 3.3 | | 6.1 | |
| 2/8/2023 | | | | | 10.4 |
| 2/9/2023 | 4.5 | | 5 | | |
| 8/2/2023 | | | | | 9.5 |
| 8/15/2023 | 4.4 | 3.1 | 4.1 | 5.6 | |
| 2/20/2024 | 4.6 | 3.2 | 4.8 | 6.1 | |
| 2/22/2024 | | | | | 10.5 |

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 6/1/2016 | | 0.0035 | <0.005 | | | | <0.005 |
| 6/2/2016 | <0.005 | | | | <0.005 | 0.0013 (J) | |
| 7/25/2016 | | | <0.005 | | <0.005 | | <0.005 |
| 7/26/2016 | <0.005 | <0.005 | | | | <0.005 | |
| 9/13/2016 | | <0.005 | <0.005 | | | | |
| 9/14/2016 | | | | <0.005 | | | <0.005 |
| 9/15/2016 | <0.005 | | | | | <0.005 | |
| 9/19/2016 | | | | | <0.005 | | |
| 11/1/2016 | | <0.005 | | | <0.005 | <0.005 | <0.005 |
| 11/2/2016 | <0.005 | | | | | | |
| 11/4/2016 | | | <0.005 | <0.005 | | | |
| 12/15/2016 | | | | <0.005 | | | |
| 1/10/2017 | <0.005 | | | | | | |
| 1/11/2017 | | <0.005 | | | | <0.005 | <0.005 |
| 1/16/2017 | | | <0.005 | <0.005 | <0.005 | | |
| 2/21/2017 | | | | | <0.005 | | |
| 3/1/2017 | | | | | | | 0.0004 (J) |
| 3/2/2017 | | 0.0009 (J) | 0.0004 (J) | | | 0.0006 (J) | |
| 3/3/2017 | | | | 0.0005 (J) | | | |
| 3/8/2017 | <0.005 | | | | | | |
| 4/26/2017 | <0.005 | | | | 0.0016 (J) | <0.005 | <0.005 |
| 4/27/2017 | | <0.005 | <0.005 | | | | |
| 4/28/2017 | | | | 0.0004 (J) | | | |
| 5/26/2017 | | | | <0.005 | | | |
| 6/27/2017 | | <0.005 | <0.005 | | | | |
| 6/28/2017 | | | | <0.005 | | <0.005 | <0.005 |
| 6/30/2017 | <0.005 | | | | <0.005 | | |
| 3/27/2018 | <0.005 | | <0.005 | | <0.005 | | |
| 3/28/2018 | | | | <0.005 | | <0.005 | <0.005 |
| 3/29/2018 | | <0.005 | | | | | |
| 2/26/2019 | <0.005 | | | | <0.005 | | |
| 2/27/2019 | | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 |
| 3/28/2019 | | <0.005 | 0.0021 (J) | | | | |
| 3/29/2019 | <0.005 | | | <0.005 | | | |
| 4/1/2019 | | | | | <0.005 | <0.005 | <0.005 |
| 9/24/2019 | | 0.00072 (J) | 0.0028 (J) | <0.005 | | | |
| 9/25/2019 | <0.005 | | | | <0.005 | 0.0014 (J) | 0.0019 (J) |
| 2/10/2020 | | 0.00042 (J) | <0.005 | | | | |
| 2/11/2020 | | | | <0.005 | | | <0.005 |
| 2/12/2020 | <0.005 | | | | <0.005 | <0.005 | |
| 3/18/2020 | <0.005 | | 0.00044 (J) | | | | |
| 3/19/2020 | | 0.00084 (J) | | 0.00048 (J) | <0.005 | <0.005 | <0.005 |
| 9/23/2020 | | 0.00062 (J) | 0.00058 (J) | <0.005 | | <0.005 | <0.005 |
| 9/24/2020 | | | | | <0.005 | | |
| 9/25/2020 | <0.005 | | | | | | |
| 2/10/2021 | <0.005 | | | <0.005 | | <0.005 | <0.005 |
| 2/11/2021 | | | | | <0.005 | | |
| 2/12/2021 | | <0.005 | <0.005 | | | | |
| 3/1/2021 | | | | | <0.005 | | |
| 3/2/2021 | <0.005 | | | | | | |
| 3/3/2021 | | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 |
| 8/19/2021 | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 8/27/2021 | | | | <0.005 | | | <0.005 |
| 2/9/2022 | | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 |
| 2/10/2022 | <0.005 | | | | | | |
| 2/11/2022 | | | | | <0.005 | | |
| 8/30/2022 | | 0.0011 (J) | | <0.005 | | | |
| 8/31/2022 | <0.005 | | <0.005 | | <0.005 | <0.005 | <0.005 |
| 2/7/2023 | | <0.005 | 0.0013 (J) | <0.005 | | | |
| 2/8/2023 | <0.005 | | | | 0.0021 (J) | <0.005 | <0.005 |
| 8/15/2023 | <0.005 | <0.005 | <0.005 | <0.005 | | <0.005 | |
| 8/16/2023 | | | | | <0.005 | | <0.005 |
| 2/20/2024 | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 2/23/2024 | <0.005 | | | | | | |

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | <0.005 | <0.005 | <0.005 | <0.005 | | | |
| 6/9/2016 | | | | | <0.005 | <0.005 | |
| 8/1/2016 | 0.0008 (J) | 0.0026 (J) | <0.005 | <0.005 | | | |
| 8/2/2016 | | | | | 0.0005 (J) | 0.0005 (J) | |
| 8/30/2016 | | | | | | | <0.005 |
| 9/20/2016 | <0.005 | 0.001 (J) | <0.005 | <0.005 | | | |
| 9/21/2016 | | | | | <0.005 | <0.005 | |
| 11/7/2016 | <0.005 | 0.0013 (J) | <0.005 | <0.005 | | <0.005 | |
| 11/8/2016 | | | | | <0.005 | | |
| 11/14/2016 | | | | | | | 0.0093 (J) |
| 1/18/2017 | <0.005 | 0.002 (J) | <0.005 | | <0.005 | <0.005 | |
| 1/19/2017 | | | | <0.005 | | | |
| 2/21/2017 | <0.005 | 0.0019 (J) | | | | <0.005 | |
| 2/22/2017 | | | | <0.005 | <0.005 | | |
| 2/23/2017 | | | <0.005 | | | | |
| 2/24/2017 | | | | | | | <0.005 |
| 5/3/2017 | | 0.0037 (J) | | | | | |
| 5/5/2017 | | | | | <0.005 | <0.005 | |
| 5/8/2017 | 0.0006 (J) | | <0.005 | <0.005 | | | <0.005 |
| 6/30/2017 | | | <0.005 | <0.005 | | | |
| 7/5/2017 | | | | | <0.005 | | |
| 7/7/2017 | | | | | | <0.005 | |
| 7/10/2017 | <0.005 (*) | <0.005 (*) | | | | | |
| 7/11/2017 | | | | | | | <0.005 |
| 10/10/2017 | | | | | | | <0.005 |
| 3/29/2018 | | | <0.005 | <0.005 | | | |
| 3/30/2018 | <0.005 | <0.005 | | | <0.005 | <0.005 | |
| 4/2/2018 | | | | | | | <0.005 |
| 9/19/2018 | | | | | | | <0.005 |
| 2/27/2019 | 0.0049 (J) | 0.0055 (J) | <0.005 | 0.015 | <0.005 | <0.005 | |
| 4/1/2019 | | | <0.005 | <0.005 | <0.005 | | |
| 4/2/2019 | <0.005 | 0.003 (J) | | | | <0.005 | |
| 8/20/2019 | | | | | | | <0.005 |
| 9/25/2019 | 0.00048 (J) | 0.0012 (J) | | | | | |
| 9/26/2019 | | | <0.005 | <0.005 | 0.00044 (J) | <0.005 | |
| 2/13/2020 | 0.00044 (J) | 0.0012 (J) | <0.005 | <0.005 | 0.00047 (J) | <0.005 | |
| 3/19/2020 | | 0.0018 (J) | | | <0.005 | 0.00049 (J) | |
| 3/20/2020 | 0.0009 (J) | | <0.005 | 0.0005 (J) | | | |
| 8/27/2020 | | | | | | | <0.005 |
| 9/22/2020 | | | | | | | <0.005 |
| 9/24/2020 | 0.00067 (J) | 0.00068 (J) | <0.005 | 0.00057 (J) | <0.005 | 0.0006 (J) | |
| 2/10/2021 | 0.00065 (J) | 0.00091 (J) | <0.005 | 0.0027 (J) | | | |
| 2/11/2021 | | | | | <0.005 | | |
| 2/12/2021 | | | | | | <0.005 | |
| 3/1/2021 | | | | | | | <0.005 |
| 3/2/2021 | | 0.001 (J) | | | | | |
| 3/3/2021 | <0.005 | | <0.005 | 0.00058 (J) | <0.005 | <0.005 | |
| 8/19/2021 | | 0.0012 (J) | | | | | <0.005 |
| 8/20/2021 | <0.005 | | 0.012 | 0.0041 (J) | <0.005 | <0.005 | |
| 2/8/2022 | | | | <0.005 | <0.005 | <0.005 | <0.005 |
| 2/10/2022 | <0.005 | <0.005 | <0.005 | | | | |
| 8/31/2022 | <0.005 | <0.005 | | | | | <0.005 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 9/1/2022 | | | <0.005 | <0.005 | <0.005 | <0.005 | |
| 2/8/2023 | | | | | | | <0.005 |
| 2/9/2023 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.0034 (J) | |
| 8/15/2023 | | | | | | | <0.005 |
| 8/16/2023 | | | | | <0.005 | <0.005 | |
| 8/17/2023 | <0.005 | <0.005 | <0.005 | <0.005 | | | |
| 2/20/2024 | | | | | | | <0.005 |
| 2/21/2024 | | | <0.005 | <0.005 | <0.005 | <0.005 | |
| 2/22/2024 | <0.005 | <0.005 | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (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 | | |
| 10/11/2017 | | | | | | <0.005 | |
| 10/12/2017 | | | | | | | <0.005 |
| 11/20/2017 | | | | | | <0.005 | <0.005 |
| 1/10/2018 | | | | | | | <0.005 |
| 1/11/2018 | | | | | | <0.005 | |
| 2/19/2018 | | | | | | | <0.005 |
| 2/20/2018 | | | | | | <0.005 | |
| 3/28/2018 | <0.005 | <0.005 | <0.005 | | | | |
| 3/29/2018 | | | | <0.005 | <0.005 | | |
| 4/3/2018 | | | | | | <0.005 | <0.005 |
| 6/28/2018 | | | | | | <0.005 | <0.005 |
| 8/7/2018 | | | | | | <0.005 | <0.005 |
| 9/24/2018 | | | | | | <0.005 | <0.005 |
| 3/5/2019 | <0.005 | | <0.005 | <0.005 | <0.005 | | |
| 3/6/2019 | | <0.005 | | | | | |
| 8/21/2019 | | | | | | <0.005 | 0.00053 (J) |
| 10/9/2019 | | | | | | <0.005 | 0.0012 (J) |
| 2/11/2020 | 0.00087 (J) | 0.001 (J) | 0.00088 (J) | | | | |
| 2/12/2020 | | | | 0.00045 (J) | <0.005 | <0.005 | 0.00065 (J) |
| 3/24/2020 | 0.00087 (J) | 0.00095 (J) | 0.0011 (J) | 0.00077 (J) | <0.005 | | 0.00055 (J) |
| 3/25/2020 | | | | | | <0.005 | |
| 9/23/2020 | 0.00098 (J) | 0.00092 (J) | 0.0012 (J) | | | | |
| 9/24/2020 | | | | 0.00076 (J) | <0.005 | <0.005 | <0.005 |
| 2/9/2021 | | 0.00083 (J) | 0.0013 (J) | 0.00056 (J) | <0.005 | | |
| 2/10/2021 | | | | | | <0.005 | <0.005 |
| 3/3/2021 | 0.00082 (J) | 0.00087 (J) | 0.001 (J) | <0.005 | | | |
| 3/4/2021 | | | | | <0.005 | <0.005 | <0.005 |
| 8/26/2021 | | | <0.005 | | | <0.005 | |
| 8/27/2021 | <0.005 | <0.005 | | <0.005 | | | |
| 9/1/2021 | | | | | <0.005 | | |
| 9/3/2021 | | | | | | | <0.005 |
| 2/8/2022 | | | | | | <0.005 | <0.005 |
| 2/9/2022 | <0.005 | <0.005 | 0.0014 (J) | <0.005 | <0.005 | | |
| 8/30/2022 | <0.005 | <0.005 | 0.0015 (J) | | <0.005 | | |
| 8/31/2022 | | | | <0.005 | | <0.005 | <0.005 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 2/7/2023 | <0.005 | <0.005 | 0.0016 (J) | <0.005 | <0.005 | <0.005 | |
| 2/8/2023 | | | | | | | <0.005 |
| 8/15/2023 | <0.005 | <0.005 | 0.0013 (J) | <0.005 | <0.005 | <0.005 | <0.005 |
| 2/20/2024 | <0.005 | <0.005 | | <0.005 | <0.005 | <0.005 | <0.005 |
| 2/23/2024 | | | <0.005 | | | | |

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 5/1/2007 | | | | 0.0029 | |
| 9/11/2007 | | | | 0.0084 | |
| 3/20/2008 | | | | 0.0027 | |
| 8/27/2008 | | | | 0.0026 | |
| 3/3/2009 | | | | 0.0022 | |
| 11/18/2009 | | | | 0.0036 | |
| 3/3/2010 | | | | <0.005 | |
| 9/8/2010 | | | | <0.005 | |
| 3/10/2011 | | | | <0.005 | |
| 9/8/2011 | | | | <0.005 | |
| 3/5/2012 | | | | <0.005 | |
| 9/10/2012 | | | | <0.005 | |
| 2/6/2013 | | | | <0.005 | |
| 8/12/2013 | | | | <0.005 | |
| 2/5/2014 | | | | 0.0059 | |
| 8/5/2014 | | | | <0.005 | |
| 2/4/2015 | | | | <0.005 | |
| 8/3/2015 | | | | 0.0011 (J) | |
| 2/16/2016 | | | | <0.005 | |
| 6/2/2016 | <0.005 | <0.005 | <0.005 | | |
| 6/9/2016 | | | | | <0.005 |
| 7/26/2016 | <0.005 | <0.005 | <0.005 | | |
| 8/2/2016 | | | | | 0.0005 (J) |
| 8/31/2016 | | | | <0.005 | |
| 9/14/2016 | <0.005 | <0.005 | <0.005 | | |
| 9/21/2016 | | | | | <0.005 |
| 11/2/2016 | <0.005 | <0.005 | | | |
| 11/4/2016 | | | <0.005 | | |
| 11/7/2016 | | | | | <0.005 |
| 11/28/2016 | | | | <0.005 | |
| 1/12/2017 | | <0.005 | <0.005 | | |
| 1/13/2017 | <0.005 | | | | |
| 1/19/2017 | | | | | <0.005 |
| 2/22/2017 | | | | <0.005 | <0.005 |
| 3/6/2017 | <0.005 | | | | |
| 3/7/2017 | | <0.005 | <0.005 | | |
| 5/1/2017 | <0.005 | 0.0004 (J) | | | |
| 5/2/2017 | | | <0.005 | | |
| 5/8/2017 | | | | <0.005 | <0.005 |
| 6/27/2017 | | <0.005 | <0.005 | | |
| 6/29/2017 | <0.005 | | | | |
| 7/5/2017 | | | | | <0.005 |
| 7/17/2017 | | | | <0.005 | |
| 10/16/2017 | | | | <0.005 | |
| 2/19/2018 | | | | <0.005 | |
| 3/29/2018 | <0.005 | <0.005 | <0.005 | | <0.005 |
| 8/6/2018 | | | | <0.005 | |
| 2/25/2019 | | | | <0.005 | |
| 2/27/2019 | | | | | <0.005 |
| 3/4/2019 | <0.005 | <0.005 | <0.005 | | |
| 4/1/2019 | | | | | <0.005 |
| 6/12/2019 | | | | <0.005 | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 8/19/2019 | | | | <0.005 | |
| 9/25/2019 | | | | | <0.005 |
| 10/8/2019 | | | | <0.005 | |
| 2/12/2020 | <0.005 | <0.005 | 0.00043 (J) | | |
| 2/13/2020 | | | | | <0.005 |
| 3/17/2020 | | | | <0.005 | |
| 3/20/2020 | | | | | <0.005 |
| 3/24/2020 | | <0.005 | 0.0014 (J) | | |
| 3/25/2020 | 0.00058 (J) | | | | |
| 8/26/2020 | | | | <0.005 | |
| 9/22/2020 | <0.005 | 0.0011 (J) | <0.005 | <0.005 | |
| 9/24/2020 | | | | | <0.005 |
| 2/8/2021 | | <0.005 | <0.005 | | |
| 2/9/2021 | <0.005 | | | | |
| 2/12/2021 | | | | | <0.005 |
| 3/2/2021 | | <0.005 | <0.005 | <0.005 | |
| 3/3/2021 | 0.0013 (J) | | | | <0.005 |
| 8/20/2021 | | | | <0.005 | <0.005 |
| 8/26/2021 | <0.005 | <0.005 | <0.005 | | |
| 2/8/2022 | | | | <0.005 | <0.005 |
| 2/10/2022 | | <0.005 | <0.005 | | |
| 2/11/2022 | <0.005 | | | | |
| 8/30/2022 | | <0.005 | <0.005 | <0.005 | |
| 8/31/2022 | <0.005 | | | | |
| 9/1/2022 | | | | | <0.005 |
| 2/7/2023 | | <0.005 | | <0.005 | |
| 2/8/2023 | | | | | <0.005 |
| 2/9/2023 | <0.005 | | 0.0012 (J) | | |
| 8/2/2023 | | | | | <0.005 |
| 8/15/2023 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 2/20/2024 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 2/22/2024 | | | | | <0.005 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 6/1/2016 | | <0.005 | 0.00082 (J) | | | | <0.005 |
| 6/2/2016 | <0.005 | | | | 0.035 | <0.005 | |
| 7/25/2016 | | | 0.0008 (J) | | 0.0312 | | <0.005 |
| 7/26/2016 | <0.005 | <0.005 | | | | <0.005 | |
| 9/13/2016 | | <0.005 | 0.0009 (J) | | | | |
| 9/14/2016 | | | | <0.005 | | | <0.005 |
| 9/15/2016 | <0.005 | | | | | <0.005 | |
| 9/19/2016 | | | | | 0.0275 | | |
| 11/1/2016 | | <0.005 | | | 0.0255 | <0.005 | <0.005 |
| 11/2/2016 | <0.005 | | | | | | |
| 11/4/2016 | | | 0.0025 (J) | <0.005 | | | |
| 12/15/2016 | | | | <0.005 | | | |
| 1/10/2017 | <0.005 | | | | | | |
| 1/11/2017 | | <0.005 | | | | <0.005 | <0.005 |
| 1/16/2017 | | | 0.0027 (J) | <0.005 | 0.0245 | | |
| 2/21/2017 | | | | | 0.0272 | | |
| 3/1/2017 | | | | | | | <0.005 |
| 3/2/2017 | | <0.005 | 0.0022 (J) | | | <0.005 | |
| 3/3/2017 | | | | <0.005 | | | |
| 3/8/2017 | <0.005 | | | | | | |
| 4/26/2017 | <0.005 | | | | 0.0244 | <0.005 | <0.005 |
| 4/27/2017 | | <0.005 | 0.0018 (J) | | | | |
| 4/28/2017 | | | | <0.005 | | | |
| 5/26/2017 | | | | <0.005 | | | |
| 6/27/2017 | | <0.005 | 0.0023 (J) | | | | |
| 6/28/2017 | | | | <0.005 | | <0.005 | <0.005 |
| 6/30/2017 | <0.005 | | | | 0.0233 | | |
| 3/27/2018 | <0.005 | | <0.005 | | 0.023 | | |
| 3/28/2018 | | | | <0.005 | | <0.005 | <0.005 |
| 3/29/2018 | | <0.005 | | | | | |
| 6/5/2018 | | <0.005 | | | | | |
| 6/6/2018 | | | <0.005 | | | | |
| 6/7/2018 | | | | <0.005 | | <0.005 | |
| 6/8/2018 | <0.005 | | | | | | <0.005 |
| 6/11/2018 | | | | | 0.023 | | |
| 10/1/2018 | <0.005 | <0.005 | 0.00059 (J) | <0.005 | | <0.005 | <0.005 |
| 10/2/2018 | | | | | 0.022 | | |
| 2/26/2019 | <0.005 | | | | 0.021 | | |
| 2/27/2019 | | <0.005 | 0.00064 (J) | <0.005 | | <0.005 | <0.005 |
| 3/28/2019 | | <0.005 | 0.00091 (J) | | | | |
| 3/29/2019 | <0.005 | | | <0.005 | | | |
| 4/1/2019 | | | | | 0.022 | <0.005 | <0.005 |
| 9/24/2019 | | <0.005 | 0.0013 (J) | <0.005 | | | |
| 9/25/2019 | <0.005 | | | | 0.016 | <0.005 | <0.005 |
| 2/10/2020 | | <0.005 | 0.0016 (J) | | | | |
| 2/11/2020 | | | | <0.005 | | | <0.005 |
| 2/12/2020 | <0.005 | | | | 0.014 | <0.005 | |
| 3/18/2020 | <0.005 | | 0.00087 (J) | | | | |
| 3/19/2020 | | <0.005 | | <0.005 | 0.014 | <0.005 | <0.005 |
| 9/23/2020 | | <0.005 | 0.0013 (J) | <0.005 | | <0.005 | <0.005 |
| 9/24/2020 | | | | | 0.0064 | | |
| 9/25/2020 | <0.005 | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 2/10/2021 | <0.005 | | | <0.005 | | <0.005 | <0.005 |
| 2/11/2021 | | | | | 0.0078 | | |
| 2/12/2021 | | 0.00086 (J) | 0.0028 (J) | | | | |
| 3/1/2021 | | | | | 0.0061 | | |
| 3/2/2021 | <0.005 | | | | | | |
| 3/3/2021 | | <0.005 | 0.003 (J) | <0.005 | | <0.005 | <0.005 |
| 8/19/2021 | <0.005 | 0.00055 (J) | 0.0017 (J) | | 0.0052 | <0.005 | |
| 8/27/2021 | | | | <0.005 | | | <0.005 |
| 2/9/2022 | | 0.00072 (J) | 0.0023 (J) | <0.005 | | <0.005 | <0.005 |
| 2/10/2022 | <0.005 | | | | | | |
| 2/11/2022 | | | | | 0.0038 (J) | | |
| 8/30/2022 | | <0.005 | | <0.005 | | | |
| 8/31/2022 | <0.005 | | 0.00085 (J) | | 0.004 (J) | <0.005 | <0.005 |
| 2/7/2023 | | 0.00097 (J) | 0.0048 (J) | <0.005 | | | |
| 2/8/2023 | <0.005 | | | | 0.0031 (J) | <0.005 | <0.005 |
| 8/15/2023 | <0.005 | <0.005 | 0.00072 (J) | <0.005 | | <0.005 | |
| 8/16/2023 | | | | | 0.0028 (J) | | <0.005 |
| 2/20/2024 | | 0.00055 (J) | 0.0018 (J) | <0.005 | 0.0029 (J) | <0.005 | <0.005 |
| 2/23/2024 | <0.005 | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | <0.005 | 0.0032 | 0.0016 (J) | 0.0024 (J) | | | |
| 6/9/2016 | | | | | 0.00042 (J) | 0.00085 (J) | |
| 8/1/2016 | <0.005 | 0.003 (J) | 0.0014 (J) | 0.0026 (J) | | | |
| 8/2/2016 | | | | | <0.005 | 0.0008 (J) | |
| 8/30/2016 | | | | | | | 0.0073 (J) |
| 9/20/2016 | <0.005 | 0.003 (J) | 0.002 (J) | 0.0026 (J) | | | |
| 9/21/2016 | | | | | <0.005 | 0.0008 (J) | |
| 11/7/2016 | <0.005 | 0.0025 (J) | 0.0016 (J) | 0.0025 (J) | | 0.001 (J) | |
| 11/8/2016 | | | | | <0.005 | | |
| 11/14/2016 | | | | | | | 0.0115 |
| 1/18/2017 | <0.005 | 0.0022 (J) | 0.0017 (J) | | <0.005 | 0.001 (J) | |
| 1/19/2017 | | | | 0.0024 (J) | | | |
| 2/21/2017 | <0.005 | 0.0022 (J) | | | | 0.0011 (J) | |
| 2/22/2017 | | | | 0.0023 (J) | <0.005 | | |
| 2/23/2017 | | | 0.002 (J) | | | | |
| 2/24/2017 | | | | | | | 0.0106 |
| 5/3/2017 | | 0.002 (J) | | | | | |
| 5/5/2017 | | | | | <0.005 | 0.0012 (J) | |
| 5/8/2017 | <0.005 | | 0.0029 (J) | 0.0023 (J) | | | 0.0099 (J) |
| 6/30/2017 | | | 0.0044 (J) | 0.0022 (J) | | | |
| 7/5/2017 | | | | | <0.005 | | |
| 7/7/2017 | | | | | | 0.0012 (J) | |
| 7/10/2017 | <0.005 | 0.002 (J) | | | | | |
| 7/11/2017 | | | | | | | 0.0096 (J) |
| 10/10/2017 | | | | | | | 0.0036 (J) |
| 3/29/2018 | | | 0.0495 (D) | <0.005 | | | |
| 3/30/2018 | <0.005 | <0.005 | | | <0.005 | <0.005 | |
| 4/2/2018 | | | | | | | <0.005 |
| 6/12/2018 | | | | 0.0025 (J) | <0.005 | 0.0011 (J) | |
| 6/13/2018 | <0.005 | 0.0017 (J) | 0.092 | | | | |
| 9/19/2018 | | | | | | | 0.0036 (J) |
| 10/2/2018 | <0.005 | 0.002 (J) | 0.078 | 0.0023 (J) | | | |
| 10/3/2018 | | | | | <0.005 | 0.0013 (J) | |
| 2/27/2019 | <0.005 | 0.0017 (J) | 0.035 | 0.0024 (J) | <0.005 | 0.00093 (J) | |
| 4/1/2019 | | | 0.025 | 0.0023 (J) | <0.005 | | |
| 4/2/2019 | <0.005 | 0.0022 (J) | | | | 0.0011 (J) | |
| 8/20/2019 | | | | | | | 0.00092 (J) |
| 9/25/2019 | <0.005 | 0.0033 (J) | | | | | |
| 9/26/2019 | | | 0.014 | 0.0021 (J) | <0.005 | 0.00098 (J) | |
| 10/8/2019 | | | | | | | 0.0014 (J) |
| 2/13/2020 | <0.005 | 0.0019 (J) | 0.012 | 0.0026 (J) | <0.005 | 0.00092 (J) | |
| 3/17/2020 | | | | | | | 0.0017 (J) |
| 3/19/2020 | | 0.0021 (J) | | | <0.005 | 0.00093 (J) | |
| 3/20/2020 | <0.005 | | 0.014 | 0.0022 (J) | | | |
| 8/27/2020 | | | | | | | 0.0011 (J) |
| 9/22/2020 | | | | | | | 0.00097 (J) |
| 9/24/2020 | <0.005 | 0.0011 (J) | 0.0076 | 0.0021 (J) | <0.005 | 0.00085 (J) | |
| 2/10/2021 | <0.005 | 0.0017 (J) | 0.0048 (J) | 0.0025 (J) | | | |
| 2/11/2021 | | | | | <0.005 | | |
| 2/12/2021 | | | | | | <0.005 | |
| 3/1/2021 | | | | | | | 0.001 (J) |
| 3/2/2021 | | 0.0021 (J) | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 3/3/2021 | <0.005 | | 0.0042 (J) | 0.0017 (J) | <0.005 | 0.001 (J) | |
| 8/19/2021 | | 0.0017 (J) | | | | | 0.00099 (J) |
| 8/20/2021 | <0.005 | | 0.0034 (J) | 0.0027 (J) | <0.005 | 0.00097 (J) | |
| 2/8/2022 | | | | 0.0017 (J) | <0.005 | 0.00091 (J) | 0.0013 (J) |
| 2/10/2022 | <0.005 | 0.0026 (J) | 0.0051 | | | | |
| 8/31/2022 | <0.005 | 0.0026 (J) | | | | | 0.00096 (J) |
| 9/1/2022 | | | 0.0096 | 0.0015 (J) | <0.005 | 0.00071 (J) | |
| 2/8/2023 | | | | | | | 0.0011 (J) |
| 2/9/2023 | <0.005 | 0.0017 (J) | 0.0083 | 0.0015 (J) | <0.005 | 0.00074 (J) | |
| 8/15/2023 | | | | | | | 0.00072 (J) |
| 8/16/2023 | | | | | <0.005 | 0.0008 (J) | |
| 8/17/2023 | <0.005 | 0.00088 (J) | 0.0079 | 0.0014 (J) | | | |
| 2/20/2024 | | | | | | | 0.0011 (J) |
| 2/21/2024 | | | 0.016 | 0.0016 (J) | <0.005 | 0.00074 (J) | |
| 2/22/2024 | <0.005 | 0.0012 (J) | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 6/6/2016 | | <0.005 | 0.00061 (J) | | | | |
| 6/7/2016 | <0.005 | | | <0.005 | 0.0056 | | |
| 7/27/2016 | <0.005 | <0.005 | 0.0004 (J) | <0.005 | | | |
| 7/28/2016 | | | | | 0.0032 (J) | | |
| 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) | | |
| 10/11/2017 | | | | | | <0.005 | |
| 10/12/2017 | | | | | | | <0.005 |
| 11/20/2017 | | | | | | <0.005 | <0.005 |
| 1/10/2018 | | | | | | | <0.005 |
| 1/11/2018 | | | | | | <0.005 | |
| 2/19/2018 | | | | | | | <0.005 |
| 2/20/2018 | | | | | | <0.005 | |
| 3/28/2018 | <0.005 | <0.005 | <0.005 | | | | |
| 3/29/2018 | | | | <0.005 | <0.005 | | |
| 4/3/2018 | | | | | | <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 | | | | |
| 6/28/2018 | | | | | | <0.005 | <0.005 |
| 8/7/2018 | | | | | | <0.005 | <0.005 |
| 9/24/2018 | | | | | | <0.005 | <0.005 |
| 9/25/2018 | <0.005 | <0.005 | <0.005 | <0.005 | 0.0044 (J) | | |
| 3/5/2019 | <0.005 | | <0.005 | <0.005 | 0.0039 (J) | | |
| 3/6/2019 | | <0.005 | | | | | |
| 4/2/2019 | <0.005 | | | | 0.0039 (J) | | |
| 4/3/2019 | | <0.005 | <0.005 | <0.005 | | | |
| 8/21/2019 | | | | | | 0.00034 (J) | <0.005 |
| 9/24/2019 | | | | | 0.0032 (J) | | |
| 9/25/2019 | <0.005 | | | <0.005 | | | |
| 9/26/2019 | | <0.005 | <0.005 | | | | |
| 10/9/2019 | | | | | | <0.005 | <0.005 |
| 2/11/2020 | <0.005 | <0.005 | <0.005 | | | | |
| 2/12/2020 | | | | <0.005 | 0.0081 | 0.00034 (J) | <0.005 |
| 3/24/2020 | <0.005 | <0.005 | <0.005 | <0.005 | 0.0061 | | <0.005 |
| 3/25/2020 | | | | | | 0.00034 (J) | |
| 9/23/2020 | <0.005 | <0.005 | <0.005 | | | | |
| 9/24/2020 | | | | <0.005 | 0.0079 | 0.00053 (J) | <0.005 |
| 2/9/2021 | | <0.005 | <0.005 | <0.005 | 0.009 | | |
| 2/10/2021 | | | | | | 0.00098 (J) | <0.005 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 3/3/2021 | <0.005 | <0.005 | <0.005 | <0.005 | | | |
| 3/4/2021 | | | | | 0.0065 | 0.00071 (J) | <0.005 |
| 8/26/2021 | | | <0.005 | | | 0.0011 (J) | |
| 8/27/2021 | <0.005 | <0.005 | | <0.005 | | | |
| 9/1/2021 | | | | | 0.0068 | | |
| 9/3/2021 | | | | | | | <0.005 |
| 2/8/2022 | | | | | | 0.0012 (J) | <0.005 |
| 2/9/2022 | <0.005 | <0.005 | <0.005 | <0.005 | 0.0078 | | |
| 8/30/2022 | <0.005 | <0.005 | <0.005 | | 0.0066 | | |
| 8/31/2022 | | | | <0.005 | | 0.00085 (J) | <0.005 |
| 2/7/2023 | <0.005 | <0.005 | <0.005 | <0.005 | 0.014 | 0.00066 (J) | |
| 2/8/2023 | | | | | | | <0.005 |
| 8/15/2023 | <0.005 | <0.005 | <0.005 | <0.005 | 0.011 | 0.00072 (J) | <0.005 |
| 2/20/2024 | <0.005 | <0.005 | | <0.005 | 0.02 | 0.00073 (J) | <0.005 |
| 2/23/2024 | | | <0.005 | | | | |

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 5/1/2007 | | | | 0.0067 | |
| 9/11/2007 | | | | <0.005 | |
| 3/20/2008 | | | | <0.005 | |
| 8/27/2008 | | | | <0.005 | |
| 3/3/2009 | | | | <0.005 | |
| 11/18/2009 | | | | <0.005 | |
| 3/3/2010 | | | | 0.0027 | |
| 9/8/2010 | | | | 0.007 | |
| 3/10/2011 | | | | <0.005 | |
| 9/8/2011 | | | | <0.005 | |
| 3/5/2012 | | | | 0.0032 | |
| 9/10/2012 | | | | <0.005 | |
| 2/6/2013 | | | | <0.005 | |
| 8/12/2013 | | | | 0.0045 | |
| 2/5/2014 | | | | <0.005 | |
| 8/5/2014 | | | | 0.0027 | |
| 2/4/2015 | | | | 0.0016 | |
| 8/3/2015 | | | | 0.002 | |
| 2/16/2016 | | | | 0.0027 | |
| 6/2/2016 | 0.00082 (J) | <0.005 | <0.005 | | |
| 6/9/2016 | | | | | 0.00052 (J) |
| 7/26/2016 | 0.0012 (J) | <0.005 | <0.005 | | |
| 8/2/2016 | | | | | 0.0006 (J) |
| 8/31/2016 | | | | 0.0053 (J) | |
| 9/14/2016 | 0.0006 (J) | <0.005 | <0.005 | | |
| 9/21/2016 | | | | | 0.0007 (J) |
| 11/2/2016 | <0.005 | <0.005 | | | |
| 11/4/2016 | | | <0.005 | | |
| 11/7/2016 | | | | | <0.005 |
| 11/28/2016 | | | | 0.0036 (J) | |
| 1/12/2017 | | <0.005 | <0.005 | | |
| 1/13/2017 | 0.0029 (J) | | | | |
| 1/19/2017 | | | | | <0.005 |
| 2/22/2017 | | | | 0.0049 (J) | <0.005 |
| 3/6/2017 | 0.0006 (J) | | | | |
| 3/7/2017 | | <0.005 | <0.005 | | |
| 5/1/2017 | <0.005 | <0.005 | | | |
| 5/2/2017 | | | <0.005 | | |
| 5/8/2017 | | | | 0.0059 (J) | <0.005 |
| 6/27/2017 | | <0.005 | <0.005 | | |
| 6/29/2017 | 0.0005 (J) | | | | |
| 7/5/2017 | | | | | 0.0003 (J) |
| 7/17/2017 | | | | 0.0046 (J) | |
| 10/16/2017 | | | | 0.0034 (J) | |
| 2/19/2018 | | | | <0.005 | |
| 3/29/2018 | <0.005 | <0.005 | <0.005 | | <0.005 |
| 6/6/2018 | | <0.005 | | | |
| 6/7/2018 | 0.00058 (J) | | <0.005 | | |
| 6/11/2018 | | | | | <0.005 |
| 8/6/2018 | | | | 0.003 (J) | |
| 9/26/2018 | <0.005 | <0.005 | <0.005 | | |
| 10/2/2018 | | | | | <0.005 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 2/25/2019 | | | | 0.001 (J) | |
| 2/27/2019 | | | | | <0.005 |
| 3/4/2019 | <0.005 | <0.005 | <0.005 | | |
| 4/1/2019 | | | | | <0.005 |
| 4/3/2019 | 0.00083 (J) | <0.005 | <0.005 | | |
| 6/12/2019 | | | | 0.003 (J) | |
| 8/19/2019 | | | | 0.0035 (J) | |
| 9/24/2019 | | <0.005 | <0.005 | | |
| 9/25/2019 | <0.005 | | | | <0.005 |
| 10/8/2019 | | | | 0.0039 (J) | |
| 2/12/2020 | <0.005 | 0.00037 (J) | <0.005 | | |
| 2/13/2020 | | | | | <0.005 |
| 3/17/2020 | | | | 0.003 (J) | |
| 3/20/2020 | | | | | <0.005 |
| 3/24/2020 | | 0.00035 (J) | <0.005 | | |
| 3/25/2020 | 0.00056 (J) | | | | |
| 8/26/2020 | | | | 0.2 (O) | |
| 9/22/2020 | <0.005 | <0.005 | <0.005 | 0.16 (O) | |
| 9/24/2020 | | | | | <0.005 |
| 2/8/2021 | | <0.005 | <0.005 | | |
| 2/9/2021 | <0.005 | | | | |
| 2/12/2021 | | | | | 0.00094 (J) |
| 3/2/2021 | | <0.005 | <0.005 | 0.21 (O) | |
| 3/3/2021 | <0.005 | | | | <0.005 |
| 8/20/2021 | | | | 0.074 (O) | <0.005 |
| 8/26/2021 | 0.00042 (J) | <0.005 | <0.005 | | |
| 2/8/2022 | | | | 0.072 (O) | <0.005 |
| 2/10/2022 | | <0.005 | <0.005 | | |
| 2/11/2022 | <0.005 | | | | |
| 8/30/2022 | | <0.005 | <0.005 | 0.075 (O) | |
| 8/31/2022 | <0.005 | | | | |
| 9/1/2022 | | | | | <0.005 |
| 2/7/2023 | | <0.005 | | 0.034 | |
| 2/8/2023 | | | | | 0.0053 |
| 2/9/2023 | <0.005 | | <0.005 | | |
| 8/2/2023 | | | | | 0.0027 (J) |
| 8/15/2023 | <0.005 | <0.005 | <0.005 | 0.031 | |
| 2/20/2024 | <0.005 | <0.005 | <0.005 | 0.023 | |
| 2/22/2024 | | | | | 0.0071 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L)  Analysis Run 5/2/2024 9:49 AM

Plant Yates  Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 6/1/2016 | | 0.321 (U) | 0.42 | | | | 0.896 |
| 6/2/2016 | 0.329 (U) | | | | 0.0652 (U) | 2.51 | |
| 7/25/2016 | | | 1.83 | | 3.01 | | 2.28 |
| 7/26/2016 | 1.51 | 0.707 (U) | | | | 3.82 | |
| 9/13/2016 | | 1.22 | 0.841 | | | | |
| 9/14/2016 | | | | 0.98 (U) | | | 0.821 (U) |
| 9/15/2016 | 1.04 (U) | | | | | 4.24 | |
| 9/19/2016 | | | | | 0.871 (U) | | |
| 11/1/2016 | | 0.805 (U) | | | 0.307 (U) | 3.92 | 0.585 (U) |
| 11/2/2016 | 0.496 (U) | | | | | | |
| 11/4/2016 | | | 0.166 (U) | 0.277 (U) | | | |
| 12/15/2016 | | | | 0.071 (U) | | | |
| 1/10/2017 | 0.376 (U) | | | | | | |
| 1/11/2017 | | 0.705 (U) | | | | 2.52 | 1.22 |
| 1/16/2017 | | | 0 | 0.44 (U) | 0.284 (U) | | |
| 2/21/2017 | | | | | 0.503 (U) | | |
| 3/1/2017 | | | | | | | 0.877 (U) |
| 3/2/2017 | | 0.251 (U) | 0.504 (U) | | | 3.13 | |
| 3/3/2017 | | | | 0.448 (U) | | | |
| 3/8/2017 | 0.0745 (U) | | | | | | |
| 4/26/2017 | 0.282 (U) | | | | 0.204 (U) | 2.35 | 0.672 (U) |
| 4/27/2017 | | 1.08 | 0.593 (U) | | | | |
| 4/28/2017 | | | | 0.548 (U) | | | |
| 5/26/2017 | | | | 0 (U) | | | |
| 6/27/2017 | | 1.02 (U) | 0.657 (U) | | | | |
| 6/28/2017 | | | | 0.608 (U) | | 2.6 | 1.07 (U) |
| 6/30/2017 | 0.994 | | | | 0.738 (U) | | |
| 3/27/2018 | 0.189 (U) | | 0.39 (U) | | 0.31 (U) | | |
| 3/28/2018 | | | | 0.412 (U) | | 3 | 0.65 (U) |
| 3/29/2018 | | 0.503 (U) | | | | | |
| 6/5/2018 | | 0.771 (U) | | | | | |
| 6/6/2018 | | | 2.8 | | | | |
| 6/7/2018 | | | | 0.73 (U) | | 2.79 | |
| 6/8/2018 | 0.218 (U) | | | | | | 1.89 |
| 6/11/2018 | | | | | 0.608 (U) | | |
| 10/1/2018 | 1.24 | 0.783 (U) | 1.06 (U) | 0.756 (U) | | 3.14 | 1.58 |
| 10/2/2018 | | | | | 0.97 (U) | | |
| 2/26/2019 | 0.202 (U) | | | | 0.524 (U) | | |
| 2/27/2019 | | 1.21 (U) | 0.637 (U) | 0.635 (U) | | 3.79 | 3.67 |
| 3/28/2019 | | 1.13 (U) | 0.125 (U) | | | | |
| 3/29/2019 | 0 (U) | | | 0.224 (U) | | | |
| 4/1/2019 | | | | | 1.02 (U) | 4.33 | 2.28 |
| 9/24/2019 | | 1.22 (U) | 0.949 (U) | 0.429 (U) | | | |
| 9/25/2019 | 0.707 (U) | | | | 1.02 (U) | 4.2 | 1.6 |
| 2/10/2020 | | 1.41 | 1.25 (U) | | | | |
| 2/11/2020 | | | | 0.817 (U) | | 3.87 | 1.85 |
| 2/12/2020 | 1.07 (U) | | | | 0.301 (U) | | |
| 3/18/2020 | 0.207 (U) | | 0.458 (U) | | | | |
| 3/19/2020 | | 1.1 | | 0.715 (U) | 1 | 3.96 | 2.2 |
| 9/23/2020 | | 1.35 (U) | 0.00884 (U) | 0.565 (U) | | 4.14 | 1.14 (U) |
| 9/24/2020 | | | | | 0.684 (U) | | |
| 9/25/2020 | 0.603 (U) | | | | | | |

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 2/10/2021 | 0.353 (U) | | | 1.04 (U) | | 3.65 | 2.46 |
| 2/11/2021 | | | | | 0.678 (U) | | |
| 2/12/2021 | | 0.366 (U) | 0.458 (U) | | | | |
| 3/1/2021 | | | | | 0.412 (U) | | |
| 3/2/2021 | 0.71 (U) | | | | | | |
| 3/3/2021 | | 0.492 (U) | 0.105 (U) | 0.459 (U) | | 3.58 | 2.03 |
| 8/19/2021 | 0.786 (U) | 1.17 (U) | 0.0732 (U) | | 0.234 (U) | 3.53 | |
| 8/27/2021 | | | | 0.409 (U) | | | 1.34 |
| 2/9/2022 | | 1.19 | 0.422 (U) | 0.894 (U) | | 3.28 | 1.91 |
| 2/10/2022 | 0 (U) | | | | 0.268 (U) | | |
| 8/30/2022 | | 0.827 | | 0.699 (U) | | | |
| 8/31/2022 | 0.421 (U) | | 0.49 (U) | | 0.506 (U) | 2.12 | 1.33 |
| 2/7/2023 | | 0.92 (U) | 0.661 (U) | 0.536 (U) | | | |
| 2/8/2023 | 0.83 (U) | | | | 0.417 (U) | 2.74 | 1.18 |
| 8/15/2023 | 0.652 (U) | 0.935 (U) | 0.726 (U) | 0.611 (U) | | 2.79 | |
| 8/16/2023 | | | | | 0.895 (U) | | 1.87 |
| 2/20/2024 | | 0.274 (U) | 0.798 (U) | 0.784 (U) | 0.375 (U) | 2.56 | 1.09 (U) |
| 2/23/2024 | 0.736 (U) | | | | | | |

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L)  Analysis Run 5/2/2024 9:49 AM

Plant Yates  Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | 6.68 (o) | 0.677 | 1.81 | 0.257 (U) | | | |
| 6/9/2016 | | | | | 0.194 (U) | 0.715 | |
| 8/1/2016 | 0.606 (U) | 0.457 (U) | 3.79 | 0.453 (U) | | | |
| 8/2/2016 | | | | | 0.331 (U) | 0.526 (U) | |
| 8/30/2016 | | | | | | | 1.09 |
| 9/20/2016 | 0.565 (U) | 0.555 (U) | 3.12 | 1.27 | | | |
| 9/21/2016 | | | | | 0.335 (U) | 0.176 (U) | |
| 11/7/2016 | 0.773 (U) | 0.647 (U) | 2.66 | 0.877 (U) | | 0.609 (U) | |
| 11/8/2016 | | | | | 0.245 (U) | | |
| 12/15/2016 | | | | | | | 1 (U) |
| 1/18/2017 | 0.263 (U) | 0.6 (U) | 3.44 | | 0.261 (U) | 0.0752 (U) | |
| 1/19/2017 | | | | 0.764 (U) | | | |
| 2/21/2017 | 1.06 (U) | 1.11 (U) | | | | 0.404 (U) | |
| 2/22/2017 | | | | 1.26 (U) | 0.516 (U) | | |
| 2/23/2017 | | | 4.73 | | | | |
| 2/24/2017 | | | | | | | 0.504 (U) |
| 5/3/2017 | | 0.654 (U) | | | | | |
| 5/5/2017 | | | | | 0.713 (U) | 0.868 (U) | |
| 5/8/2017 | 0.291 (U) | | 3.87 | 0.789 (U) | | | 0.455 (U) |
| 6/30/2017 | | | 2.85 | 0.592 (U) | | | |
| 7/5/2017 | | | | | 0.292 (U) | | |
| 7/7/2017 | | | | | | 1.29 | |
| 7/10/2017 | 0.912 | 0.649 (U) | | | | | |
| 7/11/2017 | | | | | | | 0.471 (U) |
| 10/10/2017 | | | | | | | 0.649 (U) |
| 3/29/2018 | | | 1.41 | 0.916 (U) | | | |
| 3/30/2018 | 0.23 (U) | 0.501 (U) | | | 0.948 (U) | 0.195 (U) | |
| 4/2/2018 | | | | | | | 0.512 (U) |
| 6/12/2018 | | | | 0.666 (U) | 0.869 (U) | 1.02 (U) | |
| 6/13/2018 | 0.427 (U) | 1.09 (U) | 3.69 | | | | |
| 9/19/2018 | | | | | | | 0.789 (U) |
| 10/2/2018 | 1.41 (U) | 0.747 (U) | 4.5 | 0.774 (U) | | | |
| 10/3/2018 | | | | | 0.864 (U) | 0.713 (U) | |
| 2/27/2019 | 0.614 (U) | 1.27 | 4.69 | 1.19 | 0.947 (U) | 0.543 (U) | |
| 4/1/2019 | | | 5 | 0.777 (U) | 0.162 (U) | | |
| 4/2/2019 | 0.84 (U) | 0.708 (U) | | | | 0.521 (U) | |
| 8/20/2019 | | | | | | | 2.44 |
| 9/25/2019 | 1.01 (U) | 1.18 (U) | | | | | |
| 9/26/2019 | | | 3.37 | 1.01 (U) | 1.06 (U) | 1.16 | |
| 10/8/2019 | | | | | | | 1.72 |
| 2/13/2020 | 1.86 | 0.178 (U) | 4.48 | 0.961 (U) | 1.12 (U) | 1.04 | |
| 3/17/2020 | | | | | | | 1.22 (U) |
| 3/19/2020 | | 0.796 (U) | | | 0.913 (U) | 1.01 (U) | |
| 3/20/2020 | 2.03 | | 4.13 | 1.5 | | | |
| 8/27/2020 | | | | | | | 1.26 (U) |
| 9/22/2020 | | | | | | | 1.06 (U) |
| 9/24/2020 | <1.53 | <1.9 | 3.42 | 1.49 | <2.15 | <1.86 | |
| 2/10/2021 | 0.513 (U) | 0.41 (U) | 2.47 | 0.663 (U) | | | |
| 2/11/2021 | | | | | 1.07 | | |
| 2/12/2021 | | | | | | 0.419 (U) | |
| 3/1/2021 | | | | | | | 1.2 |
| 3/2/2021 | | 0.394 (U) | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 3/3/2021 | 0.419 (U) | | 1.39 | 0.327 (U) | 0.261 (U) | 1.04 | |
| 8/19/2021 | | 0.531 (U) | | | | | 1.07 (U) |
| 8/20/2021 | 0.596 (U) | | 1.36 | 0.542 (U) | 0.656 (U) | 1.34 | |
| 2/8/2022 | | | | 0.781 (U) | 1.07 (U) | 0.964 | 0.4 (U) |
| 2/10/2022 | 0.149 (U) | 0.431 (U) | 1.23 | | | | |
| 8/31/2022 | 0.179 (U) | 0.602 (U) | | | | | 0.714 (U) |
| 9/1/2022 | | | 2.93 | 0.147 (U) | 0.602 (U) | 0.127 (U) | |
| 2/8/2023 | | | | | | | 0.375 (U) |
| 2/9/2023 | 1.05 (U) | 0.46 (U) | 2.56 | 0.348 (U) | 0.164 (U) | 0.733 (U) | |
| 8/15/2023 | | | | | | | 0.947 (U) |
| 8/16/2023 | | | | | 0.62 (U) | 0.837 (U) | |
| 8/17/2023 | 0.635 (U) | 0.734 (U) | 3.48 | 0.509 (U) | | | |
| 2/20/2024 | | | | | | | 0.939 (U) |
| 2/21/2024 | | | 3.26 | 0.669 (U) | 0.447 (U) | 0.781 (U) | |
| 2/22/2024 | 0.745 (U) | 0.303 (U) | | | | | |

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 6/6/2016 | | 0.0804 (U) | 0.301 (U) | | | | |
| 6/7/2016 | 0.158 (U) | | | 0.0191 (U) | 0.347 | | |
| 7/27/2016 | 0.0354 (U) | 0.206 (U) | 0.196 (U) | 0.541 (U) | | | |
| 7/28/2016 | | | | | 0.815 (U) | | |
| 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) | | |
| 10/11/2017 | | | | | | 0.586 (U) | |
| 10/12/2017 | | | | | | | 1.49 |
| 11/20/2017 | | | | | | 0.816 (U) | 0.918 (U) |
| 1/10/2018 | | | | | | | 1.05 |
| 1/11/2018 | | | | | | 0.841 (U) | |
| 2/19/2018 | | | | | | | 2.05 |
| 2/20/2018 | | | | | | 1.58 | |
| 3/28/2018 | 0.438 (U) | 0.92 (U) | 0.56 (U) | | | | |
| 3/29/2018 | | | | 1.73 | 1.91 | | |
| 4/3/2018 | | | | | | 0.385 (U) | 0.68 (U) |
| 6/5/2018 | | | | | 1.39 | | |
| 6/6/2018 | | | | 0.694 (U) | | | |
| 6/7/2018 | | 0.668 (U) | | | | | |
| 6/11/2018 | 0.901 (U) | | 0.649 (U) | | | | |
| 6/28/2018 | | | | | | 0.283 (U) | 1.28 |
| 8/7/2018 | | | | | | 0.332 (U) | 1.16 |
| 9/24/2018 | | | | | | 0.767 (U) | 0.965 (U) |
| 9/25/2018 | 0.68 (U) | 0.141 (U) | 0.574 (U) | 0.772 (U) | 1.62 | | |
| 3/5/2019 | 0.272 (U) | | 0.474 (U) | 0.84 (U) | 0.985 (U) | | |
| 3/6/2019 | | 0.714 (U) | | | | | |
| 4/2/2019 | 0.847 (U) | | | | 1.42 | | |
| 4/3/2019 | | 0.385 (U) | 0.429 (U) | 1.01 | | | |
| 8/21/2019 | | | | | | 1.01 (U) | 1.24 (U) |
| 9/24/2019 | | | | | 1.35 | | |
| 9/25/2019 | 0.412 (U) | | | 1.18 (U) | | | |
| 9/26/2019 | | 0.386 (U) | 0.222 (U) | | | | |
| 10/8/2019 | | | | | | 1.02 (U) | 0.866 (U) |
| 2/11/2020 | 0.461 (U) | 1.48 | 0.597 (U) | | | | |
| 2/12/2020 | | | | 1.11 (U) | 1.61 | 0.45 (U) | 1.83 |
| 3/24/2020 | 0.534 (U) | 0.632 (U) | 0.262 (U) | 1.88 | 1.24 (U) | | 1.27 (U) |
| 3/25/2020 | | | | | | 0.377 (U) | |
| 9/23/2020 | 0.466 (U) | 0.887 (U) | 0.43 (U) | | | | |
| 9/24/2020 | | | | 0.611 (U) | 1.8 | 0.568 (U) | 0.634 (U) |
| 2/9/2021 | 0.529 (U) | 0.314 (U) | 0.259 (U) | 0.284 (U) | 1.24 | | |
| 2/10/2021 | | | | | | 0.518 (U) | 0.783 (U) |

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 3/3/2021 | 0.59 (U) | 0.565 (U) | 0.352 (U) | 0.133 (U) | 1.2 | | |
| 3/4/2021 | | | | | | 0.636 (U) | 0.818 (U) |
| 8/26/2021 | | | 0.686 (U) | | | 0.674 (U) | |
| 8/27/2021 | 0.9 (U) | 0.761 (U) | | 0.779 (U) | | | |
| 9/1/2021 | | | | | 1.86 | | |
| 9/3/2021 | | | | | | | 0.971 (U) |
| 2/8/2022 | | | | | | 0.834 | 0.534 (U) |
| 2/9/2022 | 0.133 (U) | 0.571 (U) | 0.0618 (U) | 0.504 (U) | 1.94 | | |
| 8/30/2022 | 1.08 | 1.01 | 0.611 (U) | | 1.27 | | |
| 8/31/2022 | | | | 0.184 (U) | | 0.937 | 0.513 (U) |
| 2/7/2023 | 0.367 (U) | 0.485 (U) | 0.656 (U) | 0.794 (U) | 1.53 | 1.41 | |
| 2/8/2023 | | | | | | | 1.56 |
| 8/15/2023 | 0.0388 (U) | 0.655 (U) | 0.347 (U) | 0.165 (U) | 1.68 | 0.608 (U) | 0.325 (U) |
| 2/20/2024 | 0.0387 (U) | 0.068 (U) | | 0.165 (U) | 1.19 | 0.701 (U) | 0.437 (U) |
| 2/23/2024 | | | 0.318 (U) | | | | |

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L)  Analysis Run 5/2/2024 9:49 AM

Plant Yates  Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 6/2/2016 | 0.721 | 5.11 | 0.614 | | |
| 6/9/2016 | | | | | 0.523 |
| 7/26/2016 | 1.26 | 6.92 | 1.47 | | |
| 8/2/2016 | | | | | 1.25 |
| 8/31/2016 | | | | 1.2 | |
| 9/14/2016 | 0.901 (U) | 3.96 | 1.27 | | |
| 9/21/2016 | | | | | 1.21 (U) |
| 11/2/2016 | 1.09 (U) | 4.53 | | | |
| 11/4/2016 | | | 0.434 (U) | | |
| 11/7/2016 | | | | | 1.16 |
| 11/28/2016 | | | | 0.264 (U) | |
| 1/12/2017 | | 4.43 | 0.202 (U) | | |
| 1/13/2017 | 1.19 | | | | |
| 1/19/2017 | | | | | 0.933 (U) |
| 2/22/2017 | | | | 1.06 (U) | 1.45 (U) |
| 3/6/2017 | 0.669 (U) | | | | |
| 3/7/2017 | | 4.8 | 0.0674 (U) | | |
| 5/1/2017 | 0.803 (U) | 4.16 | | | |
| 5/2/2017 | | | 0.444 (U) | | |
| 5/8/2017 | | | | 0.187 (U) | 0.21 (U) |
| 6/27/2017 | | 2.8 | 0.77 (U) | | |
| 6/29/2017 | 1.35 | | | | |
| 7/5/2017 | | | | | 0.62 (U) |
| 7/17/2017 | | | | 1.42 | |
| 10/16/2017 | | | | 1.17 | |
| 2/19/2018 | | | | 1.58 (D) | |
| 3/29/2018 | 0.703 (U) | 3.42 | 0.648 (U) | | 1.37 |
| 6/6/2018 | | 3.99 | | | |
| 6/7/2018 | 0.628 (U) | | 0.745 (U) | | |
| 6/11/2018 | | | | | 1.27 (U) |
| 8/6/2018 | | | | 0.196 (U) | |
| 9/26/2018 | 0.756 (U) | 2.73 | 0.377 (U) | | |
| 10/2/2018 | | | | | 0.442 (U) |
| 2/27/2019 | | | | | 0.902 (U) |
| 3/4/2019 | 1.21 (U) | 4.43 | 1 (U) | | |
| 4/1/2019 | | | | | 0.584 (U) |
| 4/3/2019 | 1.07 (U) | 4.79 | 0.43 (U) | | |
| 8/19/2019 | | | | 1.39 | |
| 9/24/2019 | | 4.06 | 0.699 (U) | | |
| 9/25/2019 | 1.86 | | | | 1.03 (U) |
| 10/8/2019 | | | | 1.32 (U) | |
| 2/12/2020 | 1.25 | 4.02 | 0.913 (U) | | |
| 2/13/2020 | | | | | 0.806 (U) |
| 3/17/2020 | | | | 1 (U) | |
| 3/20/2020 | | | | | 1.42 |
| 3/24/2020 | | 3.52 | | | |
| 3/25/2020 | 0.766 (U) | | | | |
| 8/26/2020 | | | | 1.75 | |
| 9/22/2020 | 0.795 (U) | 2.98 | 0.428 (U) | 0.688 (U) | |
| 9/24/2020 | | | | | <1.88 |
| 2/8/2021 | | 2.89 | 0.613 (U) | | |
| 2/9/2021 | 0.626 (U) | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 2/12/2021 | | | | | 0.826 |
| 3/2/2021 | | 1.67 | 0.579 (U) | 0.948 (U) | |
| 3/3/2021 | 1 | | | | 0.955 |
| 8/20/2021 | | | | 0.528 (U) | 0.314 (U) |
| 8/26/2021 | 1.17 (U) | 4.68 | 0.798 (U) | | |
| 2/8/2022 | | | | 0.462 (U) | 0.104 (U) |
| 2/10/2022 | | 3.33 | 0.375 (U) | | |
| 2/11/2022 | 0.996 | | | | |
| 8/30/2022 | | 5.34 | 0.72 (U) | 1.52 | |
| 8/31/2022 | 0.962 | | | | |
| 9/1/2022 | | | | | 0.445 (U) |
| 2/7/2023 | | 3.99 | | 1 | |
| 2/8/2023 | | | | | 0.963 (U) |
| 2/9/2023 | 1.12 | | 0.0815 (U) | | |
| 8/2/2023 | | | | | 1.23 |
| 8/15/2023 | 1.14 | 3.44 | 0.846 (U) | 0.833 (U) | |
| 2/20/2024 | 1.1 (U) | 2.8 | 0.63 (U) | 0.978 (U) | |
| 2/22/2024 | | | | | 0.871 (U) |

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 6/1/2016 | | 0.12 (J) | <0.1 | | | | 0.15 (J) |
| 6/2/2016 | <0.1 | | | | <0.1 | 0.62 | |
| 7/25/2016 | | | 0.06 (J) | | 0.06 (J) | | 0.14 (J) |
| 7/26/2016 | 0.02 (J) | 0.08 (J) | | | | 0.49 | |
| 9/13/2016 | | 0.11 (J) | <0.1 | | | | |
| 9/14/2016 | | | | 0.08 (J) | | | 0.18 (J) |
| 9/15/2016 | <0.1 | | | | | 0.54 | |
| 9/19/2016 | | | | | <0.1 | | |
| 11/1/2016 | | <0.3 | | | <0.1 | 0.68 | <0.1 |
| 11/2/2016 | <0.1 | | | | | | |
| 11/4/2016 | | | <0.1 | <0.3 | | | |
| 12/15/2016 | | | | 0.06 (J) | | | |
| 1/10/2017 | <0.1 | | | | | | |
| 1/11/2017 | | 0.05 (J) | | | | 0.49 | 0.09 (J) |
| 1/16/2017 | | | <0.1 | 0.1 (J) | <0.1 | | |
| 2/21/2017 | | | | | <0.1 | | |
| 3/1/2017 | | | | | | | <0.1 |
| 3/2/2017 | | <0.3 | <0.1 | | | 0.48 | |
| 3/3/2017 | | | | <0.3 | | | |
| 3/8/2017 | <0.1 | | | | | | |
| 4/26/2017 | <0.1 | | | | <0.1 | 0.48 | 0.08 (J) |
| 4/27/2017 | | 0.04 (J) | 0.01 (J) | | | | |
| 4/28/2017 | | | | 0.06 (J) | | | |
| 5/26/2017 | | | | 0.09 (J) | | | |
| 6/27/2017 | | <0.3 | <0.1 | | | | |
| 6/28/2017 | | | | 0.11 (J) | | 0.47 | 0.12 (J) |
| 6/30/2017 | <0.1 | | | | <0.1 | | |
| 10/3/2017 | | <0.3 | <0.1 | <0.3 | | | |
| 10/4/2017 | | | | | <0.1 | <0.47 | <0.1 |
| 10/5/2017 | <0.1 | | | | | | |
| 3/27/2018 | <0.1 | | <0.1 | | <0.1 | | |
| 3/28/2018 | | | | 0.31 | | 0.56 | <0.1 |
| 3/29/2018 | | <0.3 | | | | | |
| 6/5/2018 | | 0.055 (J) | | | | | |
| 6/6/2018 | | | <0.1 | | | | |
| 6/7/2018 | | | | 0.11 (J) | | 0.48 | |
| 6/8/2018 | <0.1 | | | | | | 0.2 (J) |
| 6/11/2018 | | | | | <0.1 | | |
| 10/1/2018 | <0.1 | <0.3 | <0.1 | <0.3 | | 0.44 | <0.1 |
| 10/2/2018 | | | | | <0.1 | | |
| 2/26/2019 | <0.1 | | | | <0.1 | | |
| 2/27/2019 | | 0.052 (J) | <0.1 | 0.12 (J) | | 0.53 | 0.13 (J) |
| 3/28/2019 | | 0.036 (J) | <0.1 | | | | |
| 3/29/2019 | <0.1 | | | 0.13 (J) | | | |
| 4/1/2019 | | | | | <0.1 | 0.45 | 0.1 (J) |
| 9/24/2019 | | 0.063 (J) | <0.1 | 0.081 (J) | | | |
| 9/25/2019 | <0.1 | | | | <0.1 | 0.46 | 0.1 (J) |
| 2/10/2020 | | 0.061 (J) | <0.1 | | | | |
| 2/11/2020 | | | | 0.075 (J) | | | 0.094 (J) |
| 2/12/2020 | <0.1 | | | | <0.1 | 0.4 | |
| 3/18/2020 | <0.1 | | <0.1 | | | | |
| 3/19/2020 | | 0.064 (J) | | 0.093 (J) | <0.1 | 0.51 | 0.11 (J) |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 9/23/2020 | | 0.058 (J) | <0.1 | 0.08 (J) | | 0.47 | 0.098 (J) |
| 9/24/2020 | | | | | <0.1 | | |
| 9/25/2020 | <0.1 | | | | | | |
| 2/10/2021 | <0.1 | | | 0.094 (J) | | 0.43 | <0.1 |
| 2/11/2021 | | | | | <0.1 | | |
| 2/12/2021 | | 0.068 (J) | <0.1 | | | | |
| 3/1/2021 | | | | | <0.1 | | |
| 3/2/2021 | <0.1 | | | | | | |
| 3/3/2021 | | 0.078 (J) | <0.1 | 0.085 (J) | | 0.44 | 0.1 |
| 8/19/2021 | <0.1 | 0.074 (J) | <0.1 | | <0.1 | 0.47 | |
| 8/27/2021 | | | | 0.12 | | | 0.12 |
| 2/9/2022 | | 0.057 (J) | <0.1 | 0.094 (J) | | 0.43 | 0.097 (J) |
| 2/10/2022 | <0.1 | | | | | | |
| 2/11/2022 | | | | | <0.1 | | |
| 8/30/2022 | | 0.093 (J) | | 0.12 | | | |
| 8/31/2022 | 0.053 (J) | | 0.065 (J) | | 0.06 (J) | 0.42 | 0.13 |
| 2/7/2023 | | 0.093 (J) | 0.071 (J) | 0.12 | | | |
| 2/8/2023 | 0.059 (J) | | | | 0.064 (J) | 0.56 | 0.16 |
| 8/15/2023 | <0.1 | 0.057 (J) | <0.1 | 0.081 (J) | | 0.42 | |
| 8/16/2023 | | | | | <0.1 | | 0.11 |
| 2/20/2024 | | 0.086 (J) | <0.1 | 0.1 | 0.051 (J) | 0.45 | 0.12 |
| 2/23/2024 | <0.1 | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | 0.094 (J) | <0.1 | 0.086 (J) | 0.12 (J) | | | |
| 6/9/2016 | | | | | 0.098 (J) | 0.16 (J) | |
| 8/1/2016 | 0.08 (J) | 0.24 (J) | 0.14 (J) | 0.22 (J) | | | |
| 8/2/2016 | | | | | 0.38 | 0.5 | |
| 8/30/2016 | | | | | | | 0.09 (J) |
| 9/20/2016 | 0.05 (J) | 0.03 (J) | <0.3 | 0.32 | | | |
| 9/21/2016 | | | | | 0.08 (J) | 0.25 (J) | |
| 11/7/2016 | <0.1 (*) | 0.44 | <0.3 (*) | <0.1 (*) | | 0.27 (J) | |
| 11/8/2016 | | | | | 0.24 (J) | | |
| 11/14/2016 | | | | | | | 0.18 (J) |
| 1/18/2017 | 0.11 (J) | <0.1 (*) | <0.3 (*) | | 0.12 (J) | 0.34 | |
| 1/19/2017 | | | | 0.25 (J) | | | |
| 2/21/2017 | <0.1 (*) | <0.1 (*) | | | | 0.27 (J) | |
| 2/22/2017 | | | | 0.21 (J) | <0.3 (*) | | |
| 2/23/2017 | | | <0.3 (*) | | | | |
| 2/24/2017 | | | | | | | 0.05 (J) |
| 5/3/2017 | | 0.16 (J) | | | | | |
| 5/5/2017 | | | | | 0.08 (J) | 0.2 (J) | |
| 5/8/2017 | 0.08 (J) | | 0.07 (J) | 0.19 (J) | | | 0.03 (J) |
| 6/30/2017 | | | <0.3 (*) | 0.2 (J) | | | |
| 7/5/2017 | | | | | 0.11 (J) | | |
| 7/7/2017 | | | | | | 0.18 (J) | |
| 7/10/2017 | <0.1 (*) | <0.1 (*) | | | | | |
| 7/11/2017 | | | | | | | 0.07 (J) |
| 10/5/2017 | | | | | <0.3 (*) | | |
| 10/6/2017 | | | | <0.1 (*) | | | |
| 10/9/2017 | | | <0.3 (*) | | | <0.3 (*) | |
| 10/10/2017 | <0.1 | <0.1 | | | | | <0.1 |
| 3/29/2018 | | | <0.3 | 0.49 | | | |
| 3/30/2018 | <0.1 | 0.35 | | | <0.3 | <0.3 | |
| 4/2/2018 | | | | | | | <0.1 |
| 6/12/2018 | | | | 0.037 (J) | <0.3 | 0.13 (J) | |
| 6/13/2018 | 0.088 (J) | 0.044 (J) | <0.3 | | | | |
| 9/19/2018 | | | | | | | <0.1 |
| 10/2/2018 | <0.1 | <0.1 | <0.3 | <0.1 | | | |
| 10/3/2018 | | | | | <0.3 | 0.31 | |
| 2/27/2019 | <0.1 | <0.1 | <0.3 | 0.14 (J) | 0.14 (J) | 0.22 (J) | |
| 3/27/2019 | | | | | | | 0.081 (J) |
| 4/1/2019 | | | 0.034 (J) | 0.088 (J) | 0.078 (J) | | |
| 4/2/2019 | 0.071 (J) | <0.1 | | | | 0.14 (J) | |
| 8/20/2019 | | | | | | | <0.1 |
| 9/25/2019 | 0.064 (J) | <0.1 | | | | | |
| 9/26/2019 | | | 0.14 (J) | 0.22 (J) | 0.29 (J) | 0.28 (J) | |
| 10/8/2019 | | | | | | | 0.034 (J) |
| 2/13/2020 | <0.1 | <0.1 | <0.3 | 0.11 (J) | 0.14 (J) | 0.18 (J) | |
| 3/17/2020 | | | | | | | <0.1 |
| 3/19/2020 | | <0.1 | | | 0.07 (J) | 0.16 (J) | |
| 3/20/2020 | 0.06 (J) | | <0.3 | 0.097 (J) | | | |
| 8/27/2020 | | | | | | | <0.1 |
| 9/22/2020 | | | | | | | <0.1 |
| 9/24/2020 | 0.053 (J) | <0.1 | 0.059 (J) | 0.092 (J) | 0.073 (J) | 0.16 | |
| 2/10/2021 | 0.05 (J) | <0.1 | 0.055 (J) | 0.084 (J) | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 2/11/2021 | | | | | 0.066 (J) | | |
| 2/12/2021 | | | | | | 0.069 (J) | |
| 3/1/2021 | | | | | | | <0.1 |
| 3/2/2021 | | <0.1 | | | | | |
| 3/3/2021 | 0.05 (J) | | 0.058 (J) | <0.1 | 0.072 (J) | 0.13 | |
| 8/19/2021 | | <0.1 | | | | | <0.1 |
| 8/20/2021 | <0.1 | | 0.091 (J) | 0.11 | 0.11 | 0.2 | |
| 2/8/2022 | | | | 0.087 (J) | 0.063 (J) | 0.14 | <0.1 |
| 2/10/2022 | <0.1 | <0.1 | 0.059 (J) | | | | |
| 8/31/2022 | 0.082 (J) | 0.076 (J) | | | | | 0.065 (J) |
| 9/1/2022 | | | 0.1 | 0.12 | 0.11 | 0.16 | |
| 2/8/2023 | | | | | | | 0.077 (J) |
| 2/9/2023 | 0.088 (J) | 0.07 (J) | 0.1 | 0.12 | 0.14 | 0.18 | |
| 8/15/2023 | | | | | | | <0.1 |
| 8/16/2023 | | | | | 0.078 (J) | 0.18 | |
| 8/17/2023 | 0.073 (J) | 0.06 (J) | 0.081 (J) | 0.098 (J) | | | |
| 2/20/2024 | | | | | | | 0.073 (J) |
| 2/21/2024 | | | 0.082 (J) | 0.11 | 0.096 (J) | 0.15 | |
| 2/22/2024 | 0.057 (J) | <0.1 | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 6/6/2016 | | <0.1 | <0.1 | | | | |
| 6/7/2016 | <0.1 | | | <0.1 | <0.3 | | |
| 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 | | <0.3 | | |
| 1/11/2017 | <0.1 | <0.1 | <0.1 | | | | |
| 1/13/2017 | | | | <0.1 | <0.3 | | |
| 3/1/2017 | | <0.1 | <0.1 | | | | |
| 3/2/2017 | <0.1 | | | | | | |
| 3/6/2017 | | | | <0.1 | <0.3 | | |
| 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 | <0.3 | | |
| 10/3/2017 | | | | | <0.3 | | |
| 10/4/2017 | <0.1 | | <0.1 | <0.1 | | | |
| 10/5/2017 | | <0.1 | | | | | |
| 10/11/2017 | | | | | | <0.1 | |
| 10/12/2017 | | | | | | | <0.1 |
| 11/20/2017 | | | | | | <0.1 | <0.1 |
| 1/10/2018 | | | | | | | <0.1 |
| 1/11/2018 | | | | | | <0.1 | |
| 2/19/2018 | | | | | | | <0.1 |
| 2/20/2018 | | | | | | 0.23 | |
| 3/28/2018 | <0.1 | <0.1 | <0.1 | | | | |
| 3/29/2018 | | | | <0.1 | <0.3 | | |
| 4/3/2018 | | | | | | <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 | | | | |
| 6/28/2018 | | | | | | <0.1 | <0.1 |
| 8/7/2018 | | | | | | 0.048 (J) | <0.1 |
| 9/24/2018 | | | | | | <0.1 | <0.1 |
| 9/25/2018 | <0.1 | <0.1 | <0.1 | <0.1 | 0 (J) | | |
| 3/5/2019 | <0.1 | | <0.1 | <0.1 | 0.32 | | |
| 3/6/2019 | | <0.1 | | | | | |
| 3/26/2019 | | | | | | | <0.1 |
| 3/27/2019 | | | | | | <0.1 | |
| 4/2/2019 | <0.1 | | | | 0.12 (J) | | |
| 4/3/2019 | | <0.1 | <0.1 | <0.1 | | | |
| 8/21/2019 | | | | | | <0.1 | <0.1 |
| 9/24/2019 | | | | | 0.15 (J) | | |
| 9/25/2019 | <0.1 | | | <0.1 | | | |
| 9/26/2019 | | <0.1 | <0.1 | | | | |
| 10/9/2019 | | | | | | <0.1 | <0.1 |
| 2/11/2020 | <0.1 | <0.1 | <0.1 | | | | |
| 2/12/2020 | | | | <0.1 | 0.1 (J) | <0.1 | <0.1 |
| 3/24/2020 | <0.1 | <0.1 | <0.1 | <0.1 | 0.081 (J) | | <0.1 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 3/25/2020 | | | | | | <0.1 | |
| 9/23/2020 | <0.1 | <0.1 | <0.1 | | | | |
| 9/24/2020 | | | | <0.1 | 0.079 (J) | <0.1 | <0.1 |
| 2/9/2021 | | <0.1 | <0.1 | <0.1 | 0.092 (J) | | |
| 2/10/2021 | | | | | | <0.1 | <0.1 |
| 3/3/2021 | <0.1 | <0.1 | <0.1 | <0.1 | | | |
| 3/4/2021 | | | | | 0.091 (J) | <0.1 | <0.1 |
| 8/26/2021 | | | <0.1 | | | 0.063 (J) | |
| 8/27/2021 | <0.1 | <0.1 | | <0.1 | | | |
| 9/1/2021 | | | | | 0.11 | | |
| 9/3/2021 | | | | | | | <0.1 |
| 2/8/2022 | | | | | | 0.052 (J) | <0.1 |
| 2/9/2022 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | | |
| 8/30/2022 | <0.1 | <0.1 | <0.1 | | 0.1 | | |
| 8/31/2022 | | | | <0.1 | | 0.065 (J) | 0.05 (J) |
| 2/7/2023 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 0.076 (J) | |
| 2/8/2023 | | | | | | | <0.1 |
| 8/15/2023 | <0.1 | <0.1 | <0.1 | <0.1 | 0.061 (J) | <0.1 | <0.1 |
| 2/20/2024 | <0.1 | <0.1 | | <0.1 | 0.083 (J) | 0.063 (J) | <0.1 |
| 2/23/2024 | | | <0.1 | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 6/2/2016 | <0.1 | 0.11 (J) | <0.1 | | |
| 6/9/2016 | | | | | 0.085 (J) |
| 7/26/2016 | <0.1 | 0.05 (J) | <0.1 | | |
| 8/2/2016 | | | | | 0.09 (J) |
| 8/31/2016 | | | | 0.14 (J) | |
| 9/14/2016 | <0.1 | 0.04 (J) | <0.1 | | |
| 9/21/2016 | | | | | 0.09 (J) |
| 11/2/2016 | <0.1 | <0.1 | | | |
| 11/4/2016 | | | <0.1 | | |
| 11/7/2016 | | | | | <0.3 (*) |
| 11/28/2016 | | | | 0.12 (J) | |
| 1/12/2017 | | 0.04 (J) | <0.1 | | |
| 1/13/2017 | <0.1 | | | | |
| 1/19/2017 | | | | | <0.3 (*) |
| 2/22/2017 | | | | 0.09 (J) | <0.3 (*) |
| 3/6/2017 | <0.1 | | | | |
| 3/7/2017 | | <0.1 | <0.1 | | |
| 5/1/2017 | <0.1 | <0.1 | | | |
| 5/2/2017 | | | <0.1 | | |
| 5/8/2017 | | | | 0.05 (J) | 0.06 (J) |
| 6/27/2017 | | <0.1 | <0.1 | | |
| 6/29/2017 | <0.1 | | | | |
| 7/5/2017 | | | | | 0.08 (J) |
| 7/17/2017 | | | | 0.14 (J) | |
| 10/3/2017 | | <0.1 | <0.1 | | |
| 10/5/2017 | <0.1 | | | | <0.3 (*) |
| 10/16/2017 | | | | 0.12 (J) | |
| 2/19/2018 | | | | 0.17 | |
| 3/29/2018 | <0.1 | <0.1 | <0.1 | | <0.3 |
| 6/6/2018 | | 0.15 (J) | | | |
| 6/7/2018 | <0.1 | | <0.1 | | |
| 6/11/2018 | | | | | <0.3 |
| 8/6/2018 | | | | 0.087 (J) | |
| 9/26/2018 | <0.1 | <0.1 | <0.1 | | |
| 10/2/2018 | | | | | <0.3 |
| 2/25/2019 | | | | 0.14 (J) | |
| 2/27/2019 | | | | | 0.15 (J) |
| 3/4/2019 | <0.1 | 0.19 (J) | <0.1 | | |
| 4/1/2019 | | | | | 0.059 (J) |
| 4/3/2019 | <0.1 | 0.047 (J) | <0.1 | | |
| 6/12/2019 | | | | 0.12 (J) | |
| 8/19/2019 | | | | <0.3 | |
| 9/24/2019 | | 0.05 (J) | <0.1 | | |
| 9/25/2019 | <0.1 | | | | 0.054 (J) |
| 10/8/2019 | | | | 0.052 (J) | |
| 2/12/2020 | <0.1 | <0.1 | <0.1 | | |
| 2/13/2020 | | | | | 0.053 (J) |
| 3/17/2020 | | | | 0.053 (J) | |
| 3/20/2020 | | | | | 0.057 (J) |
| 3/24/2020 | | <0.1 | <0.1 | | |
| 3/25/2020 | <0.1 | | | | |
| 8/26/2020 | | | | 0.068 (J) | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 9/22/2020 | <0.1 | 0.056 (J) | <0.1 | 0.058 (J) | |
| 9/24/2020 | | | | | 0.06 (J) |
| 2/8/2021 | | 0.055 (J) | <0.1 | | |
| 2/9/2021 | <0.1 | | | | |
| 2/12/2021 | | | | | 0.17 |
| 3/2/2021 | | <0.1 | <0.1 | 0.073 (J) | |
| 3/3/2021 | <0.1 | | | | 0.056 (J) |
| 8/20/2021 | | | | 0.06 (J) | 0.069 (J) |
| 8/26/2021 | <0.1 | 0.061 (J) | <0.1 | | |
| 2/8/2022 | | | | 0.064 (J) | 0.053 (J) |
| 2/10/2022 | | 0.055 (J) | <0.1 | | |
| 2/11/2022 | <0.1 | | | | |
| 8/30/2022 | | 0.085 (J) | <0.1 | 0.086 (J) | |
| 8/31/2022 | 0.061 (J) | | | | |
| 9/1/2022 | | | | | 0.091 (J) |
| 2/7/2023 | | 0.082 (J) | | 0.095 (J) | |
| 2/8/2023 | | | | | 0.092 (J) |
| 2/9/2023 | 0.067 (J) | | <0.1 | | |
| 8/2/2023 | | | | | 0.054 (J) |
| 8/15/2023 | <0.1 | <0.1 | <0.1 | 0.065 (J) | |
| 2/20/2024 | 0.059 (J) | 0.076 (J) | <0.1 | 0.094 (J) | |
| 2/22/2024 | | | | | 0.075 (J) |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 6/1/2016 | | 0.00056 (J) | <0.001 | | | | <0.001 |
| 6/2/2016 | <0.001 | | | | <0.001 | 0.00056 (J) | |
| 7/25/2016 | | | <0.001 | | <0.001 | | <0.001 |
| 7/26/2016 | <0.001 | <0.001 | | | | 0.0001 (J) | |
| 9/13/2016 | | 0.0001 (J) | <0.001 | | | | |
| 9/14/2016 | | | | <0.001 | | | <0.001 |
| 9/15/2016 | <0.001 | | | | | 0.0002 (J) | |
| 9/19/2016 | | | | | <0.001 | | |
| 11/1/2016 | | <0.001 | | | <0.001 | <0.001 | <0.001 |
| 11/2/2016 | <0.001 | | | | | | |
| 11/4/2016 | | | <0.001 | <0.001 | | | |
| 12/15/2016 | | | | <0.001 | | | |
| 1/10/2017 | <0.001 | | | | | | |
| 1/11/2017 | | <0.001 | | | | <0.001 | <0.001 |
| 1/16/2017 | | | <0.001 | <0.001 | <0.001 | | |
| 2/21/2017 | | | | | <0.001 | | |
| 3/1/2017 | | | | | | | <0.001 |
| 3/2/2017 | | 0.0001 (J) | <0.001 | | | 0.0002 (J) | |
| 3/3/2017 | | | | <0.001 | | | |
| 3/8/2017 | 0.0001 (J) | | | | | | |
| 4/26/2017 | <0.001 | | | | <0.001 | <0.001 | <0.001 |
| 4/27/2017 | | <0.001 | <0.001 | | | | |
| 4/28/2017 | | | | <0.001 | | | |
| 5/26/2017 | | | | <0.001 | | | |
| 6/27/2017 | | <0.001 | <0.001 | | | | |
| 6/28/2017 | | | | <0.001 | | <0.001 | <0.001 |
| 6/30/2017 | <0.001 | | | | <0.001 | | |
| 3/27/2018 | <0.001 | | <0.001 | | <0.001 | | |
| 3/28/2018 | | | | <0.001 | | <0.001 | <0.001 |
| 3/29/2018 | | <0.001 | | | | | |
| 2/26/2019 | <0.001 | | | | <0.001 | | |
| 2/27/2019 | | <0.001 | <0.001 | <0.001 | | <0.001 | <0.001 |
| 2/10/2020 | | 4.9E-05 (J) | <0.001 | | | | |
| 2/11/2020 | | | | <0.001 | | | <0.001 |
| 2/12/2020 | <0.001 | | | | <0.001 | <0.001 | |
| 3/18/2020 | <0.001 | | <0.001 | | | | |
| 3/19/2020 | | 0.00012 (J) | | <0.001 | <0.001 | 0.00017 (J) | <0.001 |
| 9/23/2020 | | <0.001 | 0.00021 (J) | 0.0011 (J) | | <0.001 | 0.00015 (J) |
| 9/24/2020 | | | | | <0.001 | | |
| 9/25/2020 | <0.001 | | | | | | |
| 2/10/2021 | 4.8E-05 (J) | | | 0.00015 (J) | | <0.001 | <0.001 |
| 2/11/2021 | | | | | 4.6E-05 (J) | | |
| 2/12/2021 | | 4.4E-05 (J) | 0.00038 (J) | | | | |
| 3/1/2021 | | | | | <0.001 | | |
| 3/2/2021 | <0.001 | | | | | | |
| 3/3/2021 | | 5.6E-05 (J) | <0.001 | <0.001 | | <0.001 | <0.001 |
| 8/19/2021 | <0.001 | <0.001 | <0.001 | | <0.001 | <0.001 | |
| 8/27/2021 | | | | <0.001 | | | <0.001 |
| 2/9/2022 | | <0.001 | <0.001 | <0.001 | | <0.001 | <0.001 |
| 2/10/2022 | <0.001 | | | | | | |
| 2/11/2022 | | | | | <0.001 | | |
| 8/30/2022 | | <0.001 | | <0.001 | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 8/31/2022 | <0.001 | | <0.001 | | <0.001 | <0.001 | <0.001 |
| 2/7/2023 | | <0.001 | <0.001 | <0.001 | | | |
| 2/8/2023 | <0.001 | | | | <0.001 | <0.001 | <0.001 |
| 8/15/2023 | <0.001 | <0.001 | <0.001 | <0.001 | | <0.001 | |
| 8/16/2023 | | | | | <0.001 | | <0.001 |
| 2/20/2024 | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 2/23/2024 | <0.001 | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | <0.001 | <0.001 | <0.001 | <0.001 (*) | | | |
| 6/9/2016 | | | | | <0.001 | <0.001 | |
| 8/1/2016 | <0.001 | <0.001 | <0.001 | <0.001 | | | |
| 8/2/2016 | | | | | <0.001 | <0.001 | |
| 8/30/2016 | | | | | | | <0.001 |
| 9/20/2016 | <0.001 | <0.001 | <0.001 | 0.0002 (J) | | | |
| 9/21/2016 | | | | | <0.001 | <0.001 | |
| 11/7/2016 | <0.001 | <0.001 | <0.001 | <0.001 | | <0.001 | |
| 11/8/2016 | | | | | <0.001 | | |
| 11/14/2016 | | | | | | | <0.001 |
| 1/18/2017 | <0.001 | <0.001 | <0.001 | | <0.001 | <0.001 | |
| 1/19/2017 | | | | <0.001 | | | |
| 2/21/2017 | <0.001 | <0.001 | | | | <0.001 | |
| 2/22/2017 | | | | <0.001 | <0.001 | | |
| 2/23/2017 | | | <0.001 | | | | |
| 2/24/2017 | | | | | | | <0.001 |
| 5/3/2017 | | <0.001 (*) | | | | | |
| 5/5/2017 | | | | | <0.001 | <0.001 (*) | |
| 5/8/2017 | <0.001 | | <0.001 | <0.001 | | | <0.001 |
| 6/30/2017 | | | <0.001 | <0.001 | | | |
| 7/5/2017 | | | | | <0.001 | | |
| 7/7/2017 | | | | | | 7E-05 (J) | |
| 7/10/2017 | <0.001 | 8E-05 (J) | | | | | |
| 7/11/2017 | | | | | | | <0.001 |
| 10/10/2017 | | | | | | | <0.001 |
| 3/29/2018 | | | <0.001 | <0.001 | | | |
| 3/30/2018 | <0.001 | <0.001 | | | <0.001 | <0.001 | |
| 4/2/2018 | | | | | | | <0.001 |
| 9/19/2018 | | | | | | | <0.001 |
| 2/27/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 8/20/2019 | | | | | | | <0.001 |
| 2/13/2020 | <0.001 | <0.001 | <0.001 | 6.2E-05 (J) | <0.001 | 5.4E-05 (J) | |
| 3/19/2020 | | 0.0001 (J) | | | <0.001 | 7.5E-05 (J) | |
| 3/20/2020 | 5.9E-05 (J) | | <0.001 | 8.5E-05 (J) | | | |
| 8/27/2020 | | | | | | | <0.001 |
| 9/22/2020 | | | | | | | <0.001 |
| 9/24/2020 | <0.001 | 6.4E-05 (J) | <0.001 | 0.00037 (J) | <0.001 | 6.3E-05 (J) | |
| 2/10/2021 | 5.1E-05 (J) | 5E-05 (J) | <0.001 | 0.00072 (J) | | | |
| 2/11/2021 | | | | | <0.001 | | |
| 2/12/2021 | | | | | | 5.2E-05 (J) | |
| 3/1/2021 | | | | | | | <0.001 |
| 3/2/2021 | | 5.6E-05 (J) | | | | | |
| 3/3/2021 | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 | |
| 8/19/2021 | | <0.001 | | | | | <0.001 |
| 8/20/2021 | <0.001 | | <0.001 | 0.00096 (J) | <0.001 | <0.001 | |
| 2/8/2022 | | | | <0.001 | <0.001 | <0.001 | <0.001 |
| 2/10/2022 | <0.001 | <0.001 | <0.001 | | | | |
| 8/31/2022 | <0.001 | <0.001 | | | | | <0.001 |
| 9/1/2022 | | | <0.001 | <0.001 | <0.001 | <0.001 | |
| 2/8/2023 | | | | | | | <0.001 |
| 2/9/2023 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 8/15/2023 | | | | | | | <0.001 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 8/16/2023 | | | | | <0.001 | <0.001 | |
| 8/17/2023 | <0.001 | <0.001 | <0.001 | <0.001 | | | |
| 2/20/2024 | | | | | | | <0.001 |
| 2/21/2024 | | | <0.001 | <0.001 | <0.001 | <0.001 | |
| 2/22/2024 | <0.001 | <0.001 | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (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 | | |
| 10/11/2017 | | | | | | 0.0001 (J) | |
| 10/12/2017 | | | | | | | 9E-05 (J) |
| 11/20/2017 | | | | | | <0.001 | <0.001 |
| 1/10/2018 | | | | | | | <0.001 |
| 1/11/2018 | | | | | | 0.0002 (J) | |
| 2/19/2018 | | | | | | | <0.001 |
| 2/20/2018 | | | | | | <0.001 | |
| 3/28/2018 | <0.001 | <0.001 | <0.001 | | | | |
| 3/29/2018 | | | | <0.001 | <0.001 | | |
| 4/3/2018 | | | | | | <0.001 | <0.001 |
| 6/28/2018 | | | | | | <0.001 | <0.001 |
| 8/7/2018 | | | | | | <0.001 | <0.001 |
| 9/24/2018 | | | | | | <0.001 | <0.001 |
| 3/5/2019 | <0.001 | | <0.001 | <0.001 | <0.001 | | |
| 3/6/2019 | | <0.001 | | | | | |
| 4/2/2019 | <0.001 | | | | <0.001 | | |
| 4/3/2019 | | <0.001 | <0.001 | <0.001 | | | |
| 8/21/2019 | | | | | | <0.001 | <0.001 |
| 9/24/2019 | | | | | <0.001 | | |
| 9/25/2019 | <0.001 | | | <0.001 | | | |
| 9/26/2019 | | <0.001 | <0.001 | | | | |
| 10/9/2019 | | | | | | <0.001 | <0.001 |
| 2/11/2020 | <0.001 | <0.001 | <0.001 | | | | |
| 2/12/2020 | | | | <0.001 | <0.001 | <0.001 | <0.001 |
| 3/24/2020 | 6.4E-05 (J) | 7.1E-05 (J) | 5.4E-05 (J) | 0.00011 (J) | <0.001 | | <0.001 |
| 3/25/2020 | | | | | | 5.1E-05 (J) | |
| 9/23/2020 | 4.1E-05 (J) | 6E-05 (J) | 9.7E-05 (J) | | | | |
| 9/24/2020 | | | | 9.2E-05 (J) | 4.6E-05 (J) | <0.001 | 3.8E-05 (J) |
| 2/9/2021 | | 5E-05 (J) | 9.4E-05 (J) | 6.3E-05 (J) | <0.001 | | |
| 2/10/2021 | | | | | | <0.001 | <0.001 |
| 3/3/2021 | <0.001 | <0.001 | 7.6E-05 (J) | 4.5E-05 (J) | | | |
| 3/4/2021 | | | | | <0.001 | <0.001 | <0.001 |
| 8/26/2021 | | | <0.001 | | | <0.001 | |
| 8/27/2021 | <0.001 | <0.001 | | <0.001 | | | |
| 9/1/2021 | | | | | <0.001 | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 9/3/2021 | | | | | | | <0.001 |
| 2/8/2022 | | | | | | <0.001 | <0.001 |
| 2/9/2022 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| 8/30/2022 | <0.001 | <0.001 | <0.001 | | <0.001 | | |
| 8/31/2022 | | | | <0.001 | | <0.001 | <0.001 |
| 2/7/2023 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 2/8/2023 | | | | | | | <0.001 |
| 8/15/2023 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 2/20/2024 | <0.001 | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 2/23/2024 | | | <0.001 | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 5/1/2007 | | | | <0.001 | |
| 9/11/2007 | | | | <0.001 | |
| 3/20/2008 | | | | <0.001 | |
| 8/27/2008 | | | | <0.001 | |
| 3/3/2009 | | | | <0.001 | |
| 11/18/2009 | | | | <0.001 | |
| 3/3/2010 | | | | <0.001 | |
| 9/8/2010 | | | | <0.001 | |
| 3/10/2011 | | | | <0.001 | |
| 9/8/2011 | | | | <0.001 | |
| 3/5/2012 | | | | <0.001 | |
| 9/10/2012 | | | | <0.001 | |
| 2/6/2013 | | | | <0.001 | |
| 8/12/2013 | | | | <0.001 | |
| 2/5/2014 | | | | <0.001 | |
| 8/5/2014 | | | | <0.001 | |
| 2/4/2015 | | | | <0.001 | |
| 8/3/2015 | | | | <0.001 | |
| 2/16/2016 | | | | <0.001 | |
| 6/2/2016 | <0.001 | <0.001 | <0.001 | | |
| 6/9/2016 | | | | | <0.001 |
| 7/26/2016 | <0.001 | <0.001 | <0.001 | | |
| 8/2/2016 | | | | | <0.001 |
| 8/31/2016 | | | | <0.001 | |
| 9/14/2016 | <0.001 | <0.001 | <0.001 | | |
| 9/21/2016 | | | | | <0.001 |
| 11/2/2016 | <0.001 | <0.001 | | | |
| 11/4/2016 | | | <0.001 | | |
| 11/7/2016 | | | | | <0.001 |
| 11/28/2016 | | | | <0.001 | |
| 1/12/2017 | | <0.001 | <0.001 | | |
| 1/13/2017 | <0.001 | | | | |
| 1/19/2017 | | | | | <0.001 |
| 2/22/2017 | | | | <0.001 | <0.001 |
| 3/6/2017 | <0.001 | | | | |
| 3/7/2017 | | 0.0001 (J) | 7E-05 (J) | | |
| 5/1/2017 | <0.001 | <0.001 | | | |
| 5/2/2017 | | | <0.001 | | |
| 5/8/2017 | | | | <0.001 | <0.001 |
| 6/27/2017 | | <0.001 | <0.001 | | |
| 6/29/2017 | <0.001 | | | | |
| 7/5/2017 | | | | | <0.001 |
| 7/17/2017 | | | | <0.001 | |
| 10/16/2017 | | | | <0.001 | |
| 2/19/2018 | | | | <0.001 | |
| 3/29/2018 | <0.001 | <0.001 | <0.001 | | <0.001 |
| 8/6/2018 | | | | <0.001 | |
| 2/25/2019 | | | | <0.001 | |
| 2/27/2019 | | | | | <0.001 |
| 3/4/2019 | <0.001 | <0.001 | <0.001 | | |
| 4/3/2019 | <0.001 | <0.001 | <0.001 | | |
| 6/12/2019 | | | | <0.001 | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 8/19/2019 | | | | <0.001 | |
| 9/24/2019 | | <0.001 | 9E-05 (J) | | |
| 9/25/2019 | <0.001 | | | | |
| 10/8/2019 | | | | <0.001 | |
| 2/12/2020 | <0.001 | <0.001 | <0.001 | | |
| 2/13/2020 | | | | | <0.001 |
| 3/17/2020 | | | | <0.001 | |
| 3/20/2020 | | | | | <0.001 |
| 3/24/2020 | | 5.4E-05 (J) | 6.8E-05 (J) | | |
| 3/25/2020 | <0.001 | | | | |
| 8/26/2020 | | | | <0.001 | |
| 9/22/2020 | <0.001 | 4.5E-05 (J) | 4.2E-05 (J) | 0.0001 (J) | |
| 9/24/2020 | | | | | 9.5E-05 (J) |
| 2/8/2021 | | 0.00013 (J) | 3.7E-05 (J) | | |
| 2/9/2021 | <0.001 | | | | |
| 2/12/2021 | | | | | 6.6E-05 (J) |
| 3/2/2021 | | 5.1E-05 (J) | 9.2E-05 (J) | <0.001 | |
| 3/3/2021 | <0.001 | | | | 0.00016 (J) |
| 8/20/2021 | | | | <0.001 | <0.001 |
| 8/26/2021 | <0.001 | <0.001 | <0.001 | | |
| 2/8/2022 | | | | <0.001 | <0.001 |
| 2/10/2022 | | <0.001 | <0.001 | | |
| 2/11/2022 | <0.001 | | | | |
| 8/30/2022 | | <0.001 | <0.001 | <0.001 | |
| 8/31/2022 | <0.001 | | | | |
| 9/1/2022 | | | | | <0.001 |
| 2/7/2023 | | <0.001 | | <0.001 | |
| 2/8/2023 | | | | | <0.001 |
| 2/9/2023 | <0.001 | | <0.001 | | |
| 8/2/2023 | | | | | <0.001 |
| 8/15/2023 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 2/20/2024 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 2/22/2024 | | | | | <0.001 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 6/1/2016 | | 0.015 | <0.03 | | | | 0.01 |
| 6/2/2016 | <0.03 | | | | <0.03 | 0.018 | |
| 7/25/2016 | | | 0.002 (J) | | <0.03 | | 0.0132 (J) |
| 7/26/2016 | <0.03 | 0.0135 (J) | | | | 0.0221 (J) | |
| 9/13/2016 | | 0.0112 (J) | <0.03 | | | | |
| 9/14/2016 | | | | 0.004 (J) | | | 0.012 (J) |
| 9/15/2016 | <0.03 | | | | | 0.0197 (J) | |
| 9/19/2016 | | | | | <0.03 | | |
| 11/1/2016 | | 0.0163 (J) | | | <0.03 | 0.0194 (J) | 0.0115 (J) |
| 11/2/2016 | <0.03 | | | | | | |
| 11/4/2016 | | | <0.03 | <0.03 | | | |
| 12/15/2016 | | | | 0.0026 (J) | | | |
| 1/10/2017 | <0.03 | | | | | | |
| 1/11/2017 | | 0.0166 (J) | | | | 0.0177 (J) | 0.0085 (J) |
| 1/16/2017 | | | 0.0023 (J) | 0.0023 (J) | <0.03 | | |
| 2/21/2017 | | | | | <0.03 | | |
| 3/1/2017 | | | | | | | 0.0114 (J) |
| 3/2/2017 | | 0.0159 (J) | 0.0025 (J) | | | 0.0185 (J) | |
| 3/3/2017 | | | | 0.0013 (J) | | | |
| 3/8/2017 | <0.03 | | | | | | |
| 4/26/2017 | <0.03 | | | | <0.03 | 0.0183 (J) | 0.0092 (J) |
| 4/27/2017 | | 0.0137 (J) | 0.0027 (J) | | | | |
| 4/28/2017 | | | | 0.0031 (J) | | | |
| 5/26/2017 | | | | 0.0038 (J) | | | |
| 6/27/2017 | | 0.0094 (J) | 0.0024 (J) | | | | |
| 6/28/2017 | | | | 0.0026 (J) | | 0.0173 (J) | 0.0085 (J) |
| 6/30/2017 | <0.03 | | | | <0.03 | | |
| 3/27/2018 | <0.03 | | 0.0023 (J) | | 0.0011 (J) | | |
| 3/28/2018 | | | | 0.0025 (J) | | 0.02 (J) | 0.013 (J) |
| 3/29/2018 | | 0.0078 (J) | | | | | |
| 6/5/2018 | | 0.0079 (J) | | | | | |
| 6/6/2018 | | | 0.0024 (J) | | | | |
| 6/7/2018 | | | | 0.0017 (J) | | 0.02 (J) | |
| 6/8/2018 | <0.03 | | | | | | 0.012 (J) |
| 6/11/2018 | | | | | 0.0012 (J) | | |
| 10/1/2018 | <0.03 | 0.0053 (J) | 0.0023 (J) | <0.03 | | 0.02 (J) | 0.011 (J) |
| 10/2/2018 | | | | | <0.03 | | |
| 2/26/2019 | <0.03 | | | | 0.0011 (J) | | |
| 2/27/2019 | | 0.0093 (J) | 0.0023 (J) | 0.0011 (J) | | 0.021 (J) | 0.014 (J) |
| 3/28/2019 | | 0.013 (J) | 0.0022 (J) | | | | |
| 3/29/2019 | <0.03 | | | 0.0016 (J) | | | |
| 4/1/2019 | | | | | 0.001 (J) | 0.021 (J) | 0.013 (J) |
| 9/24/2019 | | 0.0046 (J) | 0.0023 (J) | 0.0011 (J) | | | |
| 9/25/2019 | <0.03 | | | | 0.0011 (J) | 0.02 (J) | 0.01 (J) |
| 2/10/2020 | | 0.011 (J) | 0.0023 (J) | | | | |
| 2/11/2020 | | | | 0.0012 (J) | | | 0.013 (J) |
| 2/12/2020 | <0.03 | | | | 0.0013 (J) | 0.019 (J) | |
| 3/18/2020 | <0.03 | | 0.0024 (J) | | | | |
| 3/19/2020 | | 0.013 (J) | | 0.0022 (J) | 0.0012 (J) | 0.023 (J) | 0.014 (J) |
| 9/23/2020 | | 0.014 (J) | 0.0024 (J) | 0.0016 (J) | | 0.023 (J) | 0.013 (J) |
| 9/24/2020 | | | | | 0.0011 (J) | | |
| 9/25/2020 | <0.03 | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 2/10/2021 | <0.03 | | | 0.0039 (J) | | 0.023 (J) | 0.015 (J) |
| 2/11/2021 | | | | | 0.0012 (J) | | |
| 2/12/2021 | | 0.01 (J) | 0.0025 (J) | | | | |
| 3/1/2021 | | | | | 0.0011 (J) | | |
| 3/2/2021 | <0.03 | | | | | | |
| 3/3/2021 | | 0.012 (J) | 0.0025 (J) | 0.0016 (J) | | 0.024 (J) | 0.017 (J) |
| 8/19/2021 | <0.03 | 0.013 (J) | 0.0023 (J) | | 0.0012 (J) | 0.023 (J) | |
| 8/27/2021 | | | | 0.0058 (J) | | | 0.026 (J) |
| 2/9/2022 | | 0.013 (J) | 0.0027 (J) | 0.006 (J) | | 0.026 (J) | 0.021 (J) |
| 2/10/2022 | <0.03 | | | | | | |
| 2/11/2022 | | | | | 0.0014 (J) | | |
| 8/30/2022 | | 0.013 (J) | | 0.0044 (J) | | | |
| 8/31/2022 | <0.03 | | <0.03 | | 0.0012 (J) | 0.021 (J) | 0.022 (J) |
| 2/7/2023 | | 0.006 (J) | 0.0029 (J) | 0.0047 (J) | | | |
| 2/8/2023 | <0.03 | | | | 0.0011 (J) | 0.023 (J) | 0.018 (J) |
| 8/15/2023 | <0.03 | 0.0079 (J) | 0.002 (J) | <0.03 | | 0.023 (J) | |
| 8/16/2023 | | | | | <0.03 | | 0.025 (J) |
| 2/20/2024 | | 0.0071 (J) | <0.03 | 0.0021 (J) | <0.03 | 0.021 (J) | 0.02 (J) |
| 2/23/2024 | <0.03 | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | 0.007 | <0.03 | 0.0067 | <0.03 | | | |
| 6/9/2016 | | | | | 0.0073 | <0.03 | |
| 8/1/2016 | 0.0068 (J) | <0.03 | 0.008 (J) | <0.03 | | | |
| 8/2/2016 | | | | | 0.0073 (J) | <0.03 | |
| 8/30/2016 | | | | | | | 0.0061 (J) |
| 9/20/2016 | 0.0062 (J) | <0.03 | 0.0111 (J) | <0.03 | | | |
| 9/21/2016 | | | | | 0.0067 (J) | <0.03 | |
| 11/7/2016 | 0.0057 (J) | <0.03 | 0.0097 (J) | <0.03 | | <0.03 | |
| 11/8/2016 | | | | | 0.0072 (J) | | |
| 11/14/2016 | | | | | | | 0.0064 (J) |
| 1/18/2017 | 0.0066 (J) | <0.03 | 0.01 (J) | | 0.0067 (J) | <0.03 | |
| 1/19/2017 | | | | <0.03 | | | |
| 2/21/2017 | 0.0067 (J) | <0.03 | | | | <0.03 | |
| 2/22/2017 | | | | <0.03 | 0.0064 (J) | | |
| 2/23/2017 | | | 0.0099 (J) | | | | |
| 2/24/2017 | | | | | | | 0.0049 (J) |
| 5/3/2017 | | <0.03 | | | | | |
| 5/5/2017 | | | | | 0.007 (J) | <0.03 | |
| 5/8/2017 | 0.007 (J) | | 0.0086 (J) | <0.03 | | | 0.0053 (J) |
| 6/30/2017 | | | 0.0108 (J) | <0.03 | | | |
| 7/5/2017 | | | | | 0.0072 (J) | | |
| 7/7/2017 | | | | | | <0.03 | |
| 7/10/2017 | 0.0064 (J) | <0.03 | | | | | |
| 7/11/2017 | | | | | | | 0.0051 (J) |
| 10/10/2017 | | | | | | | 0.0043 (J) |
| 3/29/2018 | | | 0.011 (J) | <0.03 | | | |
| 3/30/2018 | 0.0068 (J) | <0.03 | | | 0.007 (J) | <0.03 | |
| 4/2/2018 | | | | | | | 0.0045 (J) |
| 6/12/2018 | | | | <0.03 | 0.0073 (J) | <0.03 | |
| 6/13/2018 | 0.0071 (J) | <0.03 | 0.014 (J) | | | | |
| 9/19/2018 | | | | | | | 0.0043 (J) |
| 10/2/2018 | 0.0064 (J) | <0.03 | 0.012 (J) | <0.03 | | | |
| 10/3/2018 | | | | | 0.0069 (J) | <0.03 | |
| 2/27/2019 | 0.0069 (J) | <0.03 | 0.0096 (J) | <0.03 | 0.0063 (J) | <0.03 | |
| 4/1/2019 | | | 0.0082 (J) | <0.03 | 0.0065 (J) | | |
| 4/2/2019 | 0.0064 (J) | <0.03 | | | | <0.03 | |
| 8/20/2019 | | | | | | | 0.0036 (J) |
| 9/25/2019 | 0.0073 (J) | <0.03 | | | | | |
| 9/26/2019 | | | 0.0075 (J) | <0.03 | 0.0064 (J) | <0.03 | |
| 10/8/2019 | | | | | | | 0.0036 (J) |
| 2/13/2020 | 0.0073 (J) | <0.03 | 0.0079 (J) | <0.03 | 0.0069 (J) | <0.03 | |
| 3/17/2020 | | | | | | | 0.0046 (J) |
| 3/19/2020 | | <0.03 | | | 0.007 (J) | <0.03 | |
| 3/20/2020 | 0.0072 (J) | | 0.0091 (J) | <0.03 | | | |
| 8/27/2020 | | | | | | | 0.0039 (J) |
| 9/22/2020 | | | | | | | 0.0036 (J) |
| 9/24/2020 | 0.0074 (J) | <0.03 | 0.0075 (J) | <0.03 | 0.0065 (J) | <0.03 | |
| 2/10/2021 | 0.0067 (J) | <0.03 | 0.0067 (J) | 0.00081 (J) | | | |
| 2/11/2021 | | | | | 0.007 (J) | | |
| 2/12/2021 | | | | | | 0.0053 (J) | |
| 3/1/2021 | | | | | | | 0.0037 (J) |
| 3/2/2021 | | <0.03 | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 3/3/2021 | 0.0077 (J) | | 0.0066 (J) | <0.03 | 0.0063 (J) | <0.03 | |
| 8/19/2021 | | <0.03 | | | | | 0.0038 (J) |
| 8/20/2021 | 0.0079 (J) | | 0.0066 (J) | 0.0013 (J) | 0.0072 (J) | <0.03 | |
| 2/8/2022 | | | | <0.03 | 0.0076 (J) | <0.03 | 0.0039 (J) |
| 2/10/2022 | 0.0086 (J) | <0.03 | 0.0072 (J) | | | | |
| 8/31/2022 | 0.0074 (J) | <0.03 | | | | | 0.0037 (J) |
| 9/1/2022 | | | 0.0069 (J) | <0.03 | 0.0066 (J) | <0.03 | |
| 2/8/2023 | | | | | | | 0.0037 (J) |
| 2/9/2023 | 0.0075 (J) | <0.03 | 0.0069 (J) | <0.03 | 0.0066 (J) | <0.03 | |
| 8/15/2023 | | | | | | | 0.004 (J) |
| 8/16/2023 | | | | | 0.0058 (J) | <0.03 | |
| 8/17/2023 | 0.0077 (J) | <0.03 | 0.0067 (J) | <0.03 | | | |
| 2/20/2024 | | | | | | | 0.0036 (J) |
| 2/21/2024 | | | 0.007 (J) | <0.03 | 0.0056 (J) | <0.03 | |
| 2/22/2024 | 0.0078 (J) | <0.03 | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 6/6/2016 | | 0.0088 | 0.015 | | | | |
| 6/7/2016 | <0.03 | | | <0.03 | 0.0055 | | |
| 7/27/2016 | <0.03 | 0.0087 (J) | 0.0049 (J) | <0.03 | | | |
| 7/28/2016 | | | | | 0.0045 (J) | | |
| 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) | | |
| 10/11/2017 | | | | | | 0.0018 (J) | |
| 10/12/2017 | | | | | | | <0.03 |
| 11/20/2017 | | | | | | 0.0018 (J) | <0.03 |
| 1/10/2018 | | | | | | | <0.03 |
| 1/11/2018 | | | | | | 0.0019 (J) | |
| 2/19/2018 | | | | | | | <0.03 |
| 2/20/2018 | | | | | | <0.03 | |
| 3/28/2018 | <0.03 | 0.0041 (J) | 0.0024 (J) | | | | |
| 3/29/2018 | | | | <0.03 | 0.0062 (J) | | |
| 4/3/2018 | | | | | | 0.0022 (J) | <0.03 |
| 6/5/2018 | | | | | 0.0061 (J) | | |
| 6/6/2018 | | | | <0.03 | | | |
| 6/7/2018 | | 0.0032 (J) | | | | | |
| 6/11/2018 | <0.03 | | 0.0014 (J) | | | | |
| 6/28/2018 | | | | | | 0.0026 (J) | <0.03 |
| 8/7/2018 | | | | | | 0.0024 (J) | <0.03 |
| 9/24/2018 | | | | | | 0.0022 (J) | <0.03 |
| 9/25/2018 | <0.03 | 0.0036 (J) | 0.0016 (J) | <0.03 | 0.0062 (J) | | |
| 3/5/2019 | <0.03 | | 0.0031 (J) | <0.03 | 0.0053 (J) | | |
| 3/6/2019 | | 0.0033 (J) | | | | | |
| 4/2/2019 | <0.03 | | | | 0.0051 (J) | | |
| 4/3/2019 | | 0.0035 (J) | 0.0028 (J) | <0.03 | | | |
| 8/21/2019 | | | | | | 0.0035 (J) | <0.03 |
| 9/24/2019 | | | | | 0.0068 (J) | | |
| 9/25/2019 | <0.03 | | | <0.03 | | | |
| 9/26/2019 | | 0.0032 (J) | 0.0029 (J) | | | | |
| 10/9/2019 | | | | | | 0.0036 (J) | <0.03 |
| 2/11/2020 | <0.03 | 0.0033 (J) | 0.005 (J) | | | | |
| 2/12/2020 | | | | <0.03 | 0.0065 (J) | 0.0041 (J) | <0.03 |
| 3/24/2020 | 0.0034 (J) | 0.0033 (J) | 0.0035 (J) | <0.03 | 0.0064 (J) | | <0.03 |
| 3/25/2020 | | | | | | 0.0049 (J) | |
| 9/23/2020 | <0.03 | 0.003 (J) | 0.0022 (J) | | | | |
| 9/24/2020 | | | | <0.03 | 0.0069 (J) | 0.0054 (J) | <0.03 |
| 2/9/2021 | | 0.0031 (J) | 0.0019 (J) | <0.03 | 0.006 (J) | | |
| 2/10/2021 | | | | | | 0.0071 (J) | <0.03 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 3/3/2021 | <0.03 | 0.0034 (J) | 0.0021 (J) | <0.03 | | | |
| 3/4/2021 | | | | | 0.0062 (J) | 0.0084 (J) | <0.03 |
| 8/26/2021 | | | 0.0019 (J) | | | 0.0082 (J) | |
| 8/27/2021 | <0.03 | 0.0032 (J) | | <0.03 | | | |
| 9/1/2021 | | | | | 0.0057 (J) | | |
| 9/3/2021 | | | | | | | <0.03 |
| 2/8/2022 | | | | | | 0.008 (J) | 0.00076 (J) |
| 2/9/2022 | <0.03 | 0.0032 (J) | 0.0015 (J) | 0.00082 (J) | 0.0061 (J) | | |
| 8/30/2022 | <0.03 | 0.0036 (J) | 0.0014 (J) | | 0.0079 (J) | | |
| 8/31/2022 | | | | <0.03 | | 0.0065 (J) | <0.03 |
| 2/7/2023 | <0.03 | 0.003 (J) | 0.0012 (J) | <0.03 | 0.0059 (J) | 0.0065 (J) | |
| 2/8/2023 | | | | | | | 0.00074 (J) |
| 8/15/2023 | <0.03 | <0.03 | 0.00077 (J) | <0.03 | 0.0062 (J) | 0.0064 (J) | <0.03 |
| 2/20/2024 | <0.03 | 0.0038 (J) | | <0.03 | 0.0062 (J) | 0.0059 (J) | <0.03 |
| 2/23/2024 | | | <0.03 | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 6/2/2016 | 0.013 | 0.0049 (J) | <0.03 | | |
| 6/9/2016 | | | | | 0.0075 |
| 7/26/2016 | 0.0123 (J) | 0.0063 (J) | 0.0027 (J) | | |
| 8/2/2016 | | | | | 0.0078 (J) |
| 8/31/2016 | | | | <0.03 | |
| 9/14/2016 | 0.0137 (J) | 0.0058 (J) | 0.0029 (J) | | |
| 9/21/2016 | | | | | 0.0074 (J) |
| 11/2/2016 | 0.0136 (J) | 0.0053 (J) | | | |
| 11/4/2016 | | | <0.03 | | |
| 11/7/2016 | | | | | 0.0057 (J) |
| 11/28/2016 | | | | <0.03 | |
| 1/12/2017 | | 0.0054 (J) | 0.0032 (J) | | |
| 1/13/2017 | 0.0121 (J) | | | | |
| 1/19/2017 | | | | | 0.0055 (J) |
| 2/22/2017 | | | | <0.03 | 0.0063 (J) |
| 3/6/2017 | 0.0143 (J) | | | | |
| 3/7/2017 | | 0.0056 (J) | 0.0035 (J) | | |
| 5/1/2017 | 0.0132 (J) | 0.0031 (J) | | | |
| 5/2/2017 | | | 0.0031 (J) | | |
| 5/8/2017 | | | | 0.0014 (J) | 0.0066 (J) |
| 6/27/2017 | | 0.0018 (J) | 0.0029 (J) | | |
| 6/29/2017 | 0.0145 (J) | | | | |
| 7/5/2017 | | | | | 0.0058 (J) |
| 7/17/2017 | | | | <0.03 | |
| 10/16/2017 | | | | 0.0016 (J) | |
| 2/19/2018 | | | | <0.03 | |
| 3/29/2018 | 0.014 (J) | 0.0058 (J) | 0.0034 (J) | | 0.0049 (J) |
| 6/6/2018 | | 0.0068 (J) | | | |
| 6/7/2018 | 0.013 (J) | | 0.0032 (J) | | |
| 6/11/2018 | | | | | 0.0064 (J) |
| 8/6/2018 | | | | <0.03 | |
| 9/26/2018 | 0.014 (J) | 0.0065 (J) | 0.0032 (J) | | |
| 10/2/2018 | | | | | 0.006 (J) |
| 2/27/2019 | | | | | 0.0053 (J) |
| 3/4/2019 | 0.015 (J) | 0.0065 (J) | 0.0032 (J) | | |
| 4/1/2019 | | | | | 0.0052 (J) |
| 4/3/2019 | 0.014 (J) | 0.007 (J) | 0.0035 (J) | | |
| 8/19/2019 | | | | 0.0019 (J) | |
| 9/24/2019 | | 0.0065 (J) | 0.0031 (J) | | |
| 9/25/2019 | 0.014 (J) | | | | 0.0057 (J) |
| 10/8/2019 | | | | 0.0015 (J) | |
| 2/12/2020 | 0.011 (J) | 0.0066 (J) | 0.0032 (J) | | |
| 2/13/2020 | | | | | 0.0057 (J) |
| 3/17/2020 | | | | 0.0017 (J) | |
| 3/20/2020 | | | | | 0.0051 (J) |
| 3/24/2020 | | 0.0064 (J) | 0.0033 (J) | | |
| 3/25/2020 | 0.014 (J) | | | | |
| 8/26/2020 | | | | 0.0032 (J) | |
| 9/22/2020 | 0.013 (J) | 0.0066 (J) | 0.0034 (J) | 0.0029 (J) | |
| 9/24/2020 | | | | | 0.005 (J) |
| 2/8/2021 | | 0.0063 (J) | 0.0032 (J) | | |
| 2/9/2021 | 0.011 (J) | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Lithium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 2/12/2021 | | | | | <0.03 |
| 3/2/2021 | | 0.0018 (J) | 0.0031 (J) | 0.0033 (J) | |
| 3/3/2021 | 0.012 (J) | | | | 0.0054 (J) |
| 8/20/2021 | | | | 0.0028 (J) | 0.0056 (J) |
| 8/26/2021 | 0.0094 (J) | 0.0075 (J) | 0.0032 (J) | | |
| 2/8/2022 | | | | 0.0031 (J) | 0.0064 (J) |
| 2/10/2022 | | 0.0076 (J) | 0.0036 (J) | | |
| 2/11/2022 | 0.012 (J) | | | | |
| 8/30/2022 | | 0.0068 (J) | 0.0035 (J) | 0.0025 (J) | |
| 8/31/2022 | 0.013 (J) | | | | |
| 9/1/2022 | | | | | 0.0051 (J) |
| 2/7/2023 | | 0.0059 (J) | | 0.0022 (J) | |
| 2/8/2023 | | | | | 0.012 (J) |
| 2/9/2023 | 0.014 (J) | | 0.0036 (J) | | |
| 8/2/2023 | | | | | 0.013 (J) |
| 8/15/2023 | 0.0083 (J) | 0.0059 (J) | <0.03 | <0.03 | |
| 2/20/2024 | 0.014 (J) | 0.0056 (J) | 0.0033 (J) | 0.0024 (J) | |
| 2/22/2024 | | | | | 0.0051 (J) |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 6/1/2016 | | <0.0002 | <0.0002 | | | | <0.0002 |
| 6/2/2016 | <0.0002 | | | | <0.0002 | <0.0002 | |
| 7/25/2016 | | | <0.0002 | | <0.0002 | | <0.0002 |
| 7/26/2016 | <0.0002 | <0.0002 | | | | <0.0002 | |
| 9/13/2016 | | <0.0002 | <0.0002 | | | | |
| 9/14/2016 | | | | <0.0002 | | | <0.0002 |
| 9/15/2016 | <0.0002 | | | | | <0.0002 | |
| 9/19/2016 | | | | | <0.0002 | | |
| 11/1/2016 | | <0.0002 | | | <0.0002 | <0.0002 | <0.0002 |
| 11/2/2016 | <0.0002 | | | | | | |
| 11/4/2016 | | | <0.0002 | <0.0002 | | | |
| 12/15/2016 | | | | <0.0002 | | | |
| 1/10/2017 | <0.0002 | | | | | | |
| 1/11/2017 | | <0.0002 | | | | <0.0002 | <0.0002 |
| 1/16/2017 | | | <0.0002 | <0.0002 | <0.0002 | | |
| 2/21/2017 | | | | | <0.0002 | | |
| 3/1/2017 | | | | | | | <0.0002 |
| 3/2/2017 | | <0.0002 | <0.0002 | | | <0.0002 | |
| 3/3/2017 | | | | <0.0002 | | | |
| 3/8/2017 | <0.0002 | | | | | | |
| 4/26/2017 | <0.0002 | | | | <0.0002 | <0.0002 | <0.0002 |
| 4/27/2017 | | <0.0002 | <0.0002 | | | | |
| 4/28/2017 | | | | <0.0002 | | | |
| 5/26/2017 | | | | <0.0002 | | | |
| 6/27/2017 | | <0.0002 | <0.0002 | | | | |
| 6/28/2017 | | | | <0.0002 | | <0.0002 | <0.0002 |
| 6/30/2017 | <0.0002 | | | | <0.0002 | | |
| 3/27/2018 | <0.0002 | | <0.0002 | | <0.0002 | | |
| 3/28/2018 | | | | <0.0002 | | <0.0002 | <0.0002 |
| 3/29/2018 | | <0.0002 | | | | | |
| 2/26/2019 | 6.1E-05 (J) | | | | 6.8E-05 (J) | | |
| 2/27/2019 | | 5.1E-05 (J) | 5.4E-05 (J) | <0.0002 | | 6.2E-05 (J) | 6.1E-05 (J) |
| 3/28/2019 | | 4E-05 (J) | <0.0002 | | | | |
| 3/29/2019 | <0.0002 | | | <0.0002 | | | |
| 4/1/2019 | | | | | 8.2E-05 (J) | 9.6E-05 (J) | 8.4E-05 (J) |
| 9/24/2019 | | <0.0002 | <0.0002 | <0.0002 | | | |
| 9/25/2019 | <0.0002 | | | | <0.0002 | <0.0002 | <0.0002 |
| 2/10/2020 | | <0.0002 | <0.0002 | | | | |
| 2/11/2020 | | | | <0.0002 | | | <0.0002 |
| 2/12/2020 | <0.0002 | | | | <0.0002 | <0.0002 | |
| 2/10/2021 | <0.0002 | | | <0.0002 | | <0.0002 | <0.0002 |
| 2/11/2021 | | | | | <0.0002 | | |
| 2/12/2021 | | <0.0002 | <0.0002 | | | | |
| 2/9/2022 | | <0.0002 | <0.0002 | <0.0002 | | <0.0002 | <0.0002 |
| 2/10/2022 | <0.0002 | | | | | | |
| 2/11/2022 | | | | | <0.0002 | | |
| 8/30/2022 | | <0.0002 | | <0.0002 | | | |
| 8/31/2022 | <0.0002 | | <0.0002 | | <0.0002 | <0.0002 | <0.0002 |
| 2/7/2023 | | <0.0002 | <0.0002 | <0.0002 | | | |
| 2/8/2023 | <0.0002 | | | | <0.0002 | <0.0002 | <0.0002 |
| 8/15/2023 | 0.00016 (J) | 0.00015 (J) | 0.00015 (J) | 0.00015 (J) | | 0.00014 (J) | |
| 8/16/2023 | | | | | <0.0002 | | <0.0002 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 2/20/2024 | | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 2/23/2024 | <0.0002 | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | | |
| 6/9/2016 | | | | | <0.0002 (*) | <0.0002 (*) | |
| 8/1/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | | |
| 8/2/2016 | | | | | <0.0002 | <0.0002 | |
| 8/30/2016 | | | | | | | <0.0002 |
| 9/20/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | | |
| 9/21/2016 | | | | | <0.0002 | <0.0002 | |
| 11/7/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | <0.0002 | |
| 11/8/2016 | | | | | <0.0002 | | |
| 11/14/2016 | | | | | | | <0.0002 |
| 1/18/2017 | <0.0002 | <0.0002 | <0.0002 | | <0.0002 | <0.0002 | |
| 1/19/2017 | | | | <0.0002 | | | |
| 2/21/2017 | <0.0002 | <0.0002 | | | | <0.0002 | |
| 2/22/2017 | | | | <0.0002 | <0.0002 | | |
| 2/23/2017 | | | <0.0002 | | | | |
| 2/24/2017 | | | | | | | <0.0002 |
| 5/3/2017 | | <0.0002 | | | | | |
| 5/5/2017 | | | | | <0.0002 | <0.0002 | |
| 5/8/2017 | <0.0002 | | <0.0002 | <0.0002 | | | <0.0002 |
| 6/30/2017 | | | <0.0002 (*) | <0.0002 (*) | | | |
| 7/5/2017 | | | | | <0.0002 | | |
| 7/7/2017 | | | | | | <0.0002 | |
| 7/10/2017 | <0.0002 | <0.0002 | | | | | |
| 7/11/2017 | | | | | | | <0.0002 |
| 10/10/2017 | | | | | | | <0.0002 |
| 3/29/2018 | | | <0.0002 | <0.0002 | | | |
| 3/30/2018 | <0.0002 | <0.0002 | | | <0.0002 | <0.0002 | |
| 4/2/2018 | | | | | | | <0.0002 |
| 9/19/2018 | | | | | | | 5.3E-05 (J) |
| 2/27/2019 | 5.1E-05 (J) | 4.9E-05 (J) | 5.4E-05 (J) | 4.9E-05 (J) | 4.8E-05 (J) | 5.2E-05 (J) | |
| 4/1/2019 | | | 4.5E-05 (J) | 4.1E-05 (J) | <0.0002 | | |
| 4/2/2019 | 5.1E-05 (J) | 6.6E-05 (J) | | | | <0.0002 | |
| 8/20/2019 | | | | | | | <0.0002 |
| 9/25/2019 | <0.0002 | <0.0002 | | | | | |
| 9/26/2019 | | | <0.0002 | <0.0002 | <0.0002 | <0.0002 | |
| 2/13/2020 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | |
| 8/27/2020 | | | | | | | <0.0002 |
| 2/10/2021 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | | |
| 2/11/2021 | | | | | <0.0002 | | |
| 2/12/2021 | | | | | | <0.0002 | |
| 8/19/2021 | | | | | | | <0.0002 |
| 2/8/2022 | | | | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 2/10/2022 | <0.0002 | <0.0002 | <0.0002 | | | | |
| 8/31/2022 | <0.0002 | <0.0002 | | | | | <0.0002 |
| 9/1/2022 | | | <0.0002 | 0.00019 (J) | <0.0002 | <0.0002 | |
| 2/8/2023 | | | | | | | <0.0002 |
| 2/9/2023 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | |
| 8/15/2023 | | | | | | | 0.00014 (J) |
| 8/16/2023 | | | | | <0.0002 | <0.0002 | |
| 8/17/2023 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | | |
| 2/20/2024 | | | | | | | <0.0002 |
| 2/21/2024 | | | <0.0002 | <0.0002 | <0.0002 | <0.0002 | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 2/22/2024 | <0.0002 | <0.0002 | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (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 | | |
| 10/11/2017 | | | | | | <0.0002 | |
| 10/12/2017 | | | | | | | <0.0002 |
| 11/20/2017 | | | | | | 7E-05 (J) | 8E-05 (J) |
| 1/10/2018 | | | | | | | <0.0002 |
| 1/11/2018 | | | | | | <0.0002 | |
| 2/19/2018 | | | | | | | <0.0002 |
| 2/20/2018 | | | | | | <0.0002 | |
| 3/28/2018 | <0.0002 | <0.0002 | <0.0002 | | | | |
| 3/29/2018 | | | | <0.0002 | <0.0002 | | |
| 4/3/2018 | | | | | | <0.0002 | <0.0002 |
| 6/28/2018 | | | | | | <0.0002 | 3.6E-05 (J) |
| 8/7/2018 | | | | | | <0.0002 | <0.0002 |
| 9/24/2018 | | | | | | <0.0002 | <0.0002 |
| 9/25/2018 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | |
| 3/5/2019 | <0.0002 | | <0.0002 | <0.0002 | <0.0002 | | |
| 3/6/2019 | | <0.0002 | | | | | |
| 8/21/2019 | | | | | | <0.0002 | <0.0002 |
| 2/11/2020 | <0.0002 | <0.0002 | <0.0002 | | | | |
| 2/12/2020 | | | | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 2/9/2021 | | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | |
| 2/10/2021 | | | | | | <0.0002 | <0.0002 |
| 3/3/2021 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | | |
| 3/4/2021 | | | | | <0.0002 | <0.0002 | <0.0002 |
| 8/26/2021 | | | <0.0002 | | | <0.0002 | |
| 8/27/2021 | <0.0002 | <0.0002 | | <0.0002 | | | |
| 9/1/2021 | | | | | <0.0002 | | |
| 9/3/2021 | | | | | | | 0.00012 (J) |
| 2/8/2022 | | | | | | <0.0002 | 0.00013 (J) |
| 2/9/2022 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | |
| 8/30/2022 | <0.0002 | <0.0002 | <0.0002 | | <0.0002 | | |
| 8/31/2022 | | | | <0.0002 | | <0.0002 | 0.00064 |
| 2/7/2023 | 0.00018 (J) | 0.00013 (J) | 0.00017 (J) | 0.00015 (J) | 0.00017 (J) | <0.0002 | |
| 2/8/2023 | | | | | | | <0.0002 |
| 8/15/2023 | <0.0002 | 0.00014 (J) | 0.00015 (J) | <0.0002 | <0.0002 | <0.0002 | 0.00037 |
| 2/20/2024 | <0.0002 | <0.0002 | | <0.0002 | <0.0002 | <0.0002 | 0.00032 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 2/23/2024 | | | <0.0002 | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 5/1/2007 | | | | <0.0002 | |
| 9/11/2007 | | | | <0.0002 | |
| 3/20/2008 | | | | <0.0002 | |
| 8/27/2008 | | | | <0.0002 | |
| 3/3/2009 | | | | <0.0002 | |
| 11/18/2009 | | | | <0.0002 | |
| 3/3/2010 | | | | <0.0002 | |
| 9/8/2010 | | | | <0.0002 | |
| 3/10/2011 | | | | <0.0002 | |
| 9/8/2011 | | | | <0.0002 | |
| 3/5/2012 | | | | <0.0002 | |
| 9/10/2012 | | | | <0.0002 | |
| 2/6/2013 | | | | <0.0002 | |
| 8/12/2013 | | | | <0.0002 | |
| 2/5/2014 | | | | <0.0002 | |
| 8/5/2014 | | | | <0.0002 | |
| 2/4/2015 | | | | <0.0002 | |
| 8/3/2015 | | | | <0.0002 | |
| 2/16/2016 | | | | 1.36E-05 (J) | |
| 6/2/2016 | <0.0002 | <0.0002 | <0.0002 | | |
| 6/9/2016 | | | | | <0.0002 (*) |
| 7/26/2016 | <0.0002 | <0.0002 | <0.0002 | | |
| 8/2/2016 | | | | | <0.0002 |
| 8/31/2016 | | | | <0.0002 | |
| 9/14/2016 | <0.0002 | <0.0002 | <0.0002 | | |
| 9/21/2016 | | | | | <0.0002 |
| 11/2/2016 | <0.0002 | <0.0002 | | | |
| 11/4/2016 | | | <0.0002 | | |
| 11/7/2016 | | | | | <0.0002 |
| 11/28/2016 | | | | <0.0002 | |
| 1/12/2017 | | <0.0002 | <0.0002 | | |
| 1/13/2017 | <0.0002 | | | | |
| 1/19/2017 | | | | | <0.0002 |
| 2/22/2017 | | | | <0.0002 | <0.0002 |
| 3/6/2017 | <0.0002 | | | | |
| 3/7/2017 | | <0.0002 | <0.0002 | | |
| 5/1/2017 | <0.0002 | <0.0002 | | | |
| 5/2/2017 | | | <0.0002 | | |
| 5/8/2017 | | | | <0.0002 | <0.0002 |
| 6/27/2017 | | <0.0002 | <0.0002 | | |
| 6/29/2017 | <0.0002 | | | | |
| 7/5/2017 | | | | | <0.0002 |
| 7/17/2017 | | | | <0.0002 | |
| 10/16/2017 | | | | <0.0002 | |
| 2/19/2018 | | | | <0.0002 | |
| 3/29/2018 | <0.0002 | <0.0002 | <0.0002 | | <0.0002 |
| 8/6/2018 | | | | <0.0002 | |
| 9/26/2018 | <0.0002 | <0.0002 | <0.0002 | | |
| 2/25/2019 | | | | 7.4E-05 (J) | |
| 2/27/2019 | | | | | 4.7E-05 (J) |
| 3/4/2019 | <0.0002 | <0.0002 | <0.0002 | | |
| 4/1/2019 | | | | | 3.9E-05 (J) |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Mercury (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 6/12/2019 | | | | <0.0002 | |
| 8/19/2019 | | | | <0.0002 | |
| 9/25/2019 | | | | | <0.0002 |
| 10/8/2019 | | | | <0.0002 | |
| 2/12/2020 | <0.0002 | <0.0002 | <0.0002 | | |
| 2/13/2020 | | | | | <0.0002 |
| 5/6/2020 | | | | <0.0002 | |
| 8/26/2020 | | | | <0.0002 | |
| 9/22/2020 | | | | <0.0002 | |
| 2/8/2021 | | <0.0002 | <0.0002 | | |
| 2/9/2021 | <0.0002 | | | | |
| 2/12/2021 | | | | | <0.0002 |
| 3/2/2021 | | <0.0002 | <0.0002 | <0.0002 | |
| 3/3/2021 | <0.0002 | | | | |
| 8/20/2021 | | | | <0.0002 | |
| 8/26/2021 | <0.0002 | <0.0002 | <0.0002 | | |
| 2/8/2022 | | | | <0.0002 | <0.0002 |
| 2/10/2022 | | <0.0002 | <0.0002 | | |
| 2/11/2022 | <0.0002 | | | | |
| 8/30/2022 | | <0.0002 | <0.0002 | <0.0002 | |
| 8/31/2022 | <0.0002 | | | | |
| 9/1/2022 | | | | | <0.0002 |
| 2/7/2023 | | <0.0002 | | 0.00013 (J) | |
| 2/8/2023 | | | | | <0.0002 |
| 2/9/2023 | <0.0002 | | <0.0002 | | |
| 8/2/2023 | | | | | <0.0002 |
| 8/15/2023 | 0.00013 (J) | 0.00015 (J) | 0.00014 (J) | <0.0002 | |
| 2/20/2024 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | |
| 2/22/2024 | | | | | <0.0002 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 6/1/2016 | | 0.014 (J) | 0.012 (J) | | | | 0.0055 (J) |
| 6/2/2016 | <0.01 | | | | <0.01 | 0.0093 (J) | |
| 7/25/2016 | | | 0.0098 (J) | | <0.01 | | 0.0037 (J) |
| 7/26/2016 | <0.01 | 0.0132 | | | | 0.0113 | |
| 9/13/2016 | | 0.0127 | 0.01 (J) | | | | |
| 9/14/2016 | | | | 0.0039 (J) | | | 0.0034 (J) |
| 9/15/2016 | <0.01 | | | | | 0.0112 | |
| 9/19/2016 | | | | | <0.01 | | |
| 11/1/2016 | | 0.0092 (J) | | | <0.01 | 0.0099 (J) | 0.0025 (J) |
| 11/2/2016 | <0.01 | | | | | | |
| 11/4/2016 | | | 0.01 | 0.0077 (J) | | | |
| 12/15/2016 | | | | 0.0066 (J) | | | |
| 1/10/2017 | <0.01 | | | | | | |
| 1/11/2017 | | 0.0093 (J) | | | | 0.0093 (J) | 0.0033 (J) |
| 1/16/2017 | | | 0.0086 (J) | 0.0056 (J) | <0.01 | | |
| 2/21/2017 | | | | | <0.01 | | |
| 3/1/2017 | | | | | | | 0.0044 (J) |
| 3/2/2017 | | 0.0099 (J) | 0.01 | | | 0.0103 | |
| 3/3/2017 | | | | 0.0049 (J) | | | |
| 3/8/2017 | <0.01 | | | | | | |
| 4/26/2017 | <0.01 | | | | <0.01 | 0.01 | 0.0075 (J) |
| 4/27/2017 | | 0.0103 | 0.0101 | | | | |
| 4/28/2017 | | | | 0.004 (J) | | | |
| 5/26/2017 | | | | 0.0029 (J) | | | |
| 6/27/2017 | | 0.0097 (J) | 0.0093 (J) | | | | |
| 6/28/2017 | | | | 0.0036 (J) | | 0.0102 | 0.008 (J) |
| 6/30/2017 | <0.01 | | | | <0.01 | | |
| 3/27/2018 | <0.01 | | 0.0074 (J) | | <0.01 | | |
| 3/28/2018 | | | | 0.0038 (J) | | 0.011 | 0.0025 (J) |
| 3/29/2018 | | 0.0076 (J) | | | | | |
| 6/5/2018 | | 0.0092 (J) | | | | | |
| 6/6/2018 | | | 0.0073 (J) | | | | |
| 6/7/2018 | | | | 0.004 (J) | | 0.011 | |
| 6/8/2018 | <0.01 | | | | | | 0.0041 (J) |
| 6/11/2018 | | | | | <0.01 | | |
| 10/1/2018 | <0.01 | 0.0085 (J) | 0.0076 (J) | 0.0042 (J) | | 0.012 | 0.0037 (J) |
| 10/2/2018 | | | | | <0.01 | | |
| 2/26/2019 | <0.01 | | | | <0.01 | | |
| 2/27/2019 | | 0.0087 (J) | 0.0078 (J) | 0.0041 (J) | | 0.011 | 0.0027 (J) |
| 3/28/2019 | | 0.0092 (J) | 0.0082 (J) | | | | |
| 3/29/2019 | <0.01 | | | 0.0041 (J) | | | |
| 4/1/2019 | | | | | <0.01 | 0.012 | 0.0021 (J) |
| 9/24/2019 | | 0.0072 (J) | 0.0074 (J) | 0.0054 (J) | | | |
| 9/25/2019 | <0.01 | | | | <0.01 | 0.012 | 0.0087 (J) |
| 2/10/2020 | | 0.0087 (J) | 0.0062 (J) | | | | |
| 2/11/2020 | | | | 0.0057 (J) | | | 0.003 (J) |
| 2/12/2020 | <0.01 | | | | <0.01 | 0.013 | |
| 3/18/2020 | <0.01 | | 0.0056 (J) | | | | |
| 3/19/2020 | | 0.0088 (J) | | 0.0046 (J) | <0.01 | 0.013 | 0.0043 (J) |
| 9/23/2020 | | 0.008 (J) | 0.0059 (J) | 0.0071 (J) | | 0.012 | 0.01 |
| 9/24/2020 | | | | | <0.01 | | |
| 9/25/2020 | <0.01 | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 2/10/2021 | <0.01 | | | 0.0041 (J) | | 0.014 | 0.0038 (J) |
| 2/11/2021 | | | | | <0.01 | | |
| 2/12/2021 | | 0.008 (J) | 0.0056 (J) | | | | |
| 3/1/2021 | | | | | <0.01 | | |
| 3/2/2021 | <0.01 | | | | | | |
| 3/3/2021 | | 0.0088 (J) | 0.0049 (J) | 0.0074 (J) | | 0.013 | 0.0036 (J) |
| 8/19/2021 | <0.01 | 0.0083 (J) | 0.005 (J) | | <0.01 | 0.013 | |
| 8/27/2021 | | | | 0.0048 (J) | | | 0.0099 (J) |
| 2/9/2022 | | 0.0093 (J) | 0.0055 (J) | 0.0057 (J) | | 0.013 | 0.0087 (J) |
| 2/10/2022 | <0.01 | | | | | | |
| 2/11/2022 | | | | | <0.01 | | |
| 8/30/2022 | | 0.0094 (J) | | 0.0068 (J) | | | |
| 8/31/2022 | <0.01 | | 0.0055 (J) | | <0.01 | 0.011 | 0.0068 (J) |
| 2/7/2023 | | <0.01 | <0.01 | 0.0061 (J) | | | |
| 2/8/2023 | <0.01 | | | | <0.01 | 0.012 | 0.0065 (J) |
| 8/15/2023 | <0.01 | 0.0098 (J) | 0.0047 (J) | 0.0071 (J) | | 0.012 | |
| 8/16/2023 | | | | | <0.01 | | 0.012 |
| 2/20/2024 | | 0.0098 (J) | 0.03 | 0.0076 (J) | <0.01 | 0.013 | 0.0089 (J) |
| 2/23/2024 | <0.01 | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | <0.01 | <0.01 | 0.0011 (J) | <0.01 | | | |
| 6/9/2016 | | | | | 0.0011 (J) | <0.01 | |
| 8/1/2016 | <0.01 | <0.01 | 0.0018 (J) | <0.01 | | | |
| 8/2/2016 | | | | | 0.0014 (J) | 0.0006 (J) | |
| 8/30/2016 | | | | | | | <0.01 |
| 9/20/2016 | <0.01 | <0.01 | <0.01 | <0.01 | | | |
| 9/21/2016 | | | | | <0.01 | <0.01 | |
| 11/7/2016 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | |
| 11/8/2016 | | | | | <0.01 | | |
| 11/14/2016 | | | | | | | <0.01 |
| 1/18/2017 | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 | |
| 1/19/2017 | | | | <0.01 | | | |
| 2/21/2017 | <0.01 | <0.01 | | | | <0.01 | |
| 2/22/2017 | | | | <0.01 | <0.01 | | |
| 2/23/2017 | | | <0.01 | | | | |
| 2/24/2017 | | | | | | | <0.01 |
| 5/3/2017 | | <0.01 | | | | | |
| 5/5/2017 | | | | | 0.0014 (J) | 0.0007 (J) | |
| 5/8/2017 | <0.01 | | 0.0011 (J) | <0.01 | | | <0.01 |
| 6/30/2017 | | | <0.01 | <0.01 | | | |
| 7/5/2017 | | | | | 0.0014 (J) | | |
| 7/7/2017 | | | | | | <0.01 | |
| 7/10/2017 | <0.01 | <0.01 | | | | | |
| 7/11/2017 | | | | | | | <0.01 |
| 10/10/2017 | | | | | | | <0.01 |
| 3/29/2018 | | | <0.01 | <0.01 | | | |
| 3/30/2018 | <0.01 | <0.01 | | | <0.01 | <0.01 | |
| 4/2/2018 | | | | | | | <0.01 |
| 6/12/2018 | | | | <0.01 | <0.01 | <0.01 | |
| 6/13/2018 | <0.01 | <0.01 | <0.01 | | | | |
| 9/19/2018 | | | | | | | <0.01 |
| 10/2/2018 | <0.01 | <0.01 | <0.01 | <0.01 | | | |
| 10/3/2018 | | | | | <0.01 | <0.01 | |
| 2/27/2019 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | |
| 4/1/2019 | | | <0.01 | <0.01 | <0.01 | | |
| 4/2/2019 | <0.01 | <0.01 | | | | <0.01 | |
| 8/20/2019 | | | | | | | <0.01 |
| 9/25/2019 | <0.01 | <0.01 | | | | | |
| 9/26/2019 | | | 0.0013 (J) | <0.01 | 0.0013 (J) | <0.01 | |
| 10/8/2019 | | | | | | | <0.01 |
| 2/13/2020 | <0.01 | <0.01 | 0.0014 (J) | <0.01 | 0.0013 (J) | <0.01 | |
| 3/17/2020 | | | | | | | <0.01 |
| 3/19/2020 | | <0.01 | | | 0.0014 (J) | <0.01 | |
| 3/20/2020 | <0.01 | | 0.0014 (J) | <0.01 | | | |
| 8/27/2020 | | | | | | | <0.01 |
| 9/22/2020 | | | | | | | <0.01 |
| 9/24/2020 | <0.01 | <0.01 | 0.0015 (J) | <0.01 | 0.0012 (J) | 0.00075 (J) | |
| 2/10/2021 | <0.01 | <0.01 | 0.0016 (J) | <0.01 | | | |
| 2/11/2021 | | | | | 0.0012 (J) | | |
| 2/12/2021 | | | | | | <0.01 | |
| 3/1/2021 | | | | | | | <0.01 |
| 3/2/2021 | | <0.01 | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 3/3/2021 | <0.01 | | 0.0017 (J) | <0.01 | 0.0011 (J) | 0.00083 (J) | |
| 8/19/2021 | | <0.01 | | | | | <0.01 |
| 8/20/2021 | <0.01 | | 0.0042 (J) | <0.01 | 0.001 (J) | <0.01 | |
| 2/8/2022 | | | | <0.01 | 0.0011 (J) | 0.00082 (J) | <0.01 |
| 2/10/2022 | <0.01 | <0.01 | 0.0018 (J) | | | | |
| 8/31/2022 | <0.01 | <0.01 | | | | | <0.01 |
| 9/1/2022 | | | 0.0016 (J) | <0.01 | 0.001 (J) | <0.01 | |
| 2/8/2023 | | | | | | | <0.01 |
| 2/9/2023 | <0.01 | <0.01 | 0.0019 (J) | <0.01 | 0.0014 (J) | 0.00083 (J) | |
| 8/15/2023 | | | | | | | <0.01 |
| 8/16/2023 | | | | | 0.0016 (J) | 0.00077 (J) | |
| 8/17/2023 | <0.01 | <0.01 | 0.0016 (J) | <0.01 | | | |
| 2/20/2024 | | | | | | | <0.01 |
| 2/21/2024 | | | 0.0015 (J) | <0.01 | 0.0013 (J) | 0.00068 (J) | |
| 2/22/2024 | <0.01 | <0.01 | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (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 | | |
| 10/11/2017 | | | | | | 0.0094 (J) | |
| 10/12/2017 | | | | | | | <0.01 |
| 11/20/2017 | | | | | | 0.0081 (J) | <0.01 |
| 1/10/2018 | | | | | | | <0.01 |
| 1/11/2018 | | | | | | 0.0074 (J) | |
| 2/19/2018 | | | | | | | <0.01 |
| 2/20/2018 | | | | | | <0.01 | |
| 3/28/2018 | <0.01 | <0.01 | <0.01 | | | | |
| 3/29/2018 | | | | <0.01 | <0.01 | | |
| 4/3/2018 | | | | | | 0.006 (J) | <0.01 |
| 6/28/2018 | | | | | | 0.005 (J) | <0.01 |
| 8/7/2018 | | | | | | 0.0045 (J) | <0.01 |
| 9/24/2018 | | | | | | 0.0035 (J) | <0.01 |
| 3/5/2019 | <0.01 | | <0.01 | <0.01 | <0.01 | | |
| 3/6/2019 | | <0.01 | | | | | |
| 8/21/2019 | | | | | | 0.0021 (J) | <0.01 |
| 10/9/2019 | | | | | | 0.0018 (J) | <0.01 |
| 2/11/2020 | <0.01 | <0.01 | <0.01 | | | | |
| 2/12/2020 | | | | <0.01 | <0.01 | 0.0025 (J) | <0.01 |
| 3/24/2020 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 |
| 3/25/2020 | | | | | | 0.002 (J) | |
| 9/23/2020 | <0.01 | <0.01 | <0.01 | | | | |
| 9/24/2020 | | | | <0.01 | <0.01 | 0.0016 (J) | <0.01 |
| 2/9/2021 | | <0.01 | <0.01 | <0.01 | <0.01 | | |
| 2/10/2021 | | | | | | 0.0013 (J) | <0.01 |
| 3/3/2021 | <0.01 | <0.01 | <0.01 | <0.01 | | | |
| 3/4/2021 | | | | | <0.01 | 0.0014 (J) | <0.01 |
| 8/26/2021 | | | <0.01 | | | 0.0027 (J) | |
| 8/27/2021 | <0.01 | <0.01 | | <0.01 | | | |
| 9/1/2021 | | | | | <0.01 | | |
| 9/3/2021 | | | | | | | <0.01 |
| 2/8/2022 | | | | | | 0.0035 (J) | <0.01 |
| 2/9/2022 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | |
| 8/30/2022 | <0.01 | <0.01 | <0.01 | | <0.01 | | |
| 8/31/2022 | | | | <0.01 | | 0.0036 (J) | <0.01 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 2/7/2023 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.0045 (J) | |
| 2/8/2023 | | | | | | | <0.01 |
| 8/15/2023 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.0061 (J) | <0.01 |
| 2/20/2024 | <0.01 | <0.01 | | <0.01 | <0.01 | 0.0058 (J) | <0.01 |
| 2/23/2024 | | | <0.01 | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 6/2/2016 | <0.01 | 0.0035 (J) | <0.01 | | |
| 6/9/2016 | | | | | <0.01 |
| 7/26/2016 | <0.01 | 0.0042 (J) | <0.01 | | |
| 8/2/2016 | | | | | <0.01 |
| 8/31/2016 | | | | <0.01 | |
| 9/14/2016 | <0.01 | 0.0041 (J) | <0.01 | | |
| 9/21/2016 | | | | | <0.01 |
| 11/2/2016 | <0.01 | 0.0039 (J) | | | |
| 11/4/2016 | | | <0.01 | | |
| 11/7/2016 | | | | | <0.01 |
| 11/28/2016 | | | | <0.01 | |
| 1/12/2017 | | 0.0041 (J) | <0.01 | | |
| 1/13/2017 | <0.01 | | | | |
| 1/19/2017 | | | | | <0.01 |
| 2/22/2017 | | | | <0.01 | <0.01 |
| 3/6/2017 | <0.01 | | | | |
| 3/7/2017 | | 0.0047 (J) | <0.01 | | |
| 5/1/2017 | <0.01 | 0.0045 (J) | | | |
| 5/2/2017 | | | <0.01 | | |
| 5/8/2017 | | | | <0.01 | <0.01 |
| 6/27/2017 | | 0.004 (J) | <0.01 | | |
| 6/29/2017 | <0.01 | | | | |
| 7/5/2017 | | | | | <0.01 |
| 7/17/2017 | | | | <0.01 | |
| 10/16/2017 | | | | <0.01 | |
| 2/19/2018 | | | | <0.01 | |
| 3/29/2018 | <0.01 | <0.01 | <0.01 | | <0.01 |
| 6/11/2018 | | | | | <0.01 |
| 8/6/2018 | | | | <0.01 | |
| 10/2/2018 | | | | | <0.01 |
| 2/27/2019 | | | | | <0.01 |
| 3/4/2019 | <0.01 | <0.01 | <0.01 | | |
| 4/1/2019 | | | | | <0.01 |
| 8/19/2019 | | | | <0.01 | |
| 9/25/2019 | | | | | <0.01 |
| 2/12/2020 | <0.01 | 0.0011 (J) | <0.01 | | |
| 2/13/2020 | | | | | <0.01 |
| 3/20/2020 | | | | | <0.01 |
| 3/24/2020 | | 0.0011 (J) | <0.01 | | |
| 3/25/2020 | <0.01 | | | | |
| 8/26/2020 | | | | <0.01 | |
| 9/22/2020 | <0.01 | 0.00099 (J) | <0.01 | | |
| 9/24/2020 | | | | | <0.01 |
| 2/8/2021 | | 0.0011 (J) | <0.01 | | |
| 2/9/2021 | <0.01 | | | | |
| 2/12/2021 | | | | | 0.00083 (J) |
| 3/2/2021 | | <0.01 | <0.01 | | |
| 3/3/2021 | <0.01 | | | | <0.01 |
| 8/20/2021 | | | | <0.01 | <0.01 |
| 8/26/2021 | <0.01 | 0.001 (J) | <0.01 | | |
| 2/8/2022 | | | | <0.01 | <0.01 |
| 2/10/2022 | | 0.00096 (J) | <0.01 | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 2/11/2022 | <0.01 | | | | |
| 8/30/2022 | | 0.00089 (J) | <0.01 | <0.01 | |
| 8/31/2022 | <0.01 | | | | |
| 9/1/2022 | | | | | <0.01 |
| 2/7/2023 | | 0.00095 (J) | | <0.01 | |
| 2/8/2023 | | | | | 0.00099 (J) |
| 2/9/2023 | <0.01 | | <0.01 | | |
| 8/2/2023 | | | | | <0.01 |
| 8/15/2023 | <0.01 | 0.0009 (J) | <0.01 | <0.01 | |
| 2/20/2024 | <0.01 | 0.001 (J) | <0.01 | <0.01 | |
| 2/22/2024 | | | | | <0.01 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 6/1/2016 | | 7.46 | 6.33 | | | | 7.72 |
| 6/2/2016 | 5.46 | | | | 5.75 | 7.84 | |
| 7/25/2016 | | | 6.21 | | 5.82 | | 7.74 |
| 7/26/2016 | 5.45 | 7.43 | | | | 7.88 | |
| 9/13/2016 | | 7.44 | 6.16 | 7.41 | | | |
| 9/14/2016 | | | | | | | 7.65 |
| 9/15/2016 | 5.45 | | | | | 7.74 | |
| 9/19/2016 | | | | | 5.78 (D) | | |
| 11/1/2016 | | 7.24 | | | 5.62 | 7.75 | 7.7 |
| 11/2/2016 | 5.41 | | | | | | |
| 11/4/2016 | | | 6.29 | 7.12 | | | |
| 12/15/2016 | | | | 7.24 | | | |
| 1/10/2017 | 5.37 | | | | | | |
| 1/11/2017 | | 7.3 | | | | 7.66 | 7.53 |
| 1/16/2017 | | | 6.29 | 7.24 | 5.72 | | |
| 2/21/2017 | | | | | 5.67 | | |
| 3/1/2017 | | | | | | | 7.42 |
| 3/2/2017 | | 7.23 | 6.28 | | | 7.68 | |
| 3/3/2017 | | | | 7.22 | | | |
| 3/8/2017 | 5.41 | | | | | | |
| 4/26/2017 | 5.02 | | | | 5.56 | 7.45 | 7.4 |
| 4/27/2017 | | 6.99 | 6.09 | | | | |
| 4/28/2017 | | | | 7.21 | | | |
| 5/26/2017 | | | | 7.13 | | | |
| 6/27/2017 | | 6.87 | 6.21 | | | | |
| 6/28/2017 | | | | 7.06 | | 7.65 | 7.5 |
| 6/30/2017 | 5.39 | | | | 5.72 | | |
| 10/3/2017 | | 6.81 | 5.98 | 6.99 | | | |
| 10/4/2017 | | | | | 5.87 | 7.49 | 7.45 |
| 10/5/2017 | 5.49 | | | | | | |
| 3/27/2018 | 5.47 | | 6.25 | | 5.83 | | |
| 3/28/2018 | | | | 7.3 | | 7.91 | 7.74 |
| 3/29/2018 | | 7.38 | | | | | |
| 6/5/2018 | | 7.16 | | | | | |
| 6/6/2018 | | | 6.17 | | | | |
| 6/7/2018 | | | | 7.29 | | 7.69 | |
| 6/8/2018 | 5.45 | | | | | | 7.64 |
| 6/11/2018 | | | | | 5.69 | | |
| 10/1/2018 | 5.39 | 6.8 | 5.9 | 7.07 | | 7.39 | 7.47 |
| 10/2/2018 | | | | | 5.39 | | |
| 2/26/2019 | 5.46 | | | | 5.77 | | |
| 2/27/2019 | | 6.84 | 5.8 | 7.27 | | 7.55 | 7.54 |
| 3/28/2019 | | 6.99 | 6.15 | | | | |
| 3/29/2019 | 5.34 | | | 7.06 | | | |
| 4/1/2019 | | | | | 5.62 | 7.87 | 7.74 |
| 9/24/2019 | | 7.07 | 6.23 | 7.01 | | | |
| 9/25/2019 | 5.19 | | | | 5.69 | 7.64 | 7.47 |
| 2/10/2020 | | 7.2 | 6.1 | | | | |
| 2/11/2020 | | | | 7.38 | | | 7.09 |
| 2/12/2020 | 5.48 | | | | 5.8 | 7.83 | |
| 3/18/2020 | 5.38 | | 6.19 | | | | |
| 3/19/2020 | | 7.03 | | 7.22 | 6 | 7.65 | 7.31 |

# Time Series

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 9/23/2020 | | 7.15 | 6.01 | 7.22 | | 7.57 | 7.37 |
| 9/24/2020 | | | | | 5.67 | | |
| 9/25/2020 | 5.44 | | | | | | |
| 2/10/2021 | 5.35 | | | 7.29 | | 7.81 | 7.58 |
| 2/11/2021 | | | | | 5.73 | | |
| 2/12/2021 | | 7.14 | 6.21 | | | | |
| 3/1/2021 | | | | | 5.78 | | |
| 3/2/2021 | 5.49 | | | | | | |
| 3/3/2021 | | 7.2 | 5.38 | 7.92 | | 8.39 | 8.23 |
| 8/19/2021 | 7.32 | 6.32 | 6.38 | | | 5.34 | |
| 8/27/2021 | | | | 7.14 | | | 7.39 |
| 2/9/2022 | | 7.12 | 6.24 | 5.89 | | 7.97 | 7.66 |
| 2/10/2022 | 4.5 | | | | | | |
| 2/11/2022 | | | | | 5.59 | | |
| 8/30/2022 | | 7.2 | | 7.04 | | | |
| 8/31/2022 | 5.15 | | 5.64 | | 5.87 | 7.65 | 7.49 |
| 2/7/2023 | | 7.86 | 6.53 | 6.94 | | | |
| 2/8/2023 | 5.39 | | | | 6.43 | 7.88 | 7.73 |
| 8/15/2023 | 5.03 | 6.98 | 5.88 | 6.96 | | 7.69 | |
| 8/16/2023 | | | | | 5.55 | | 7.39 |
| 2/20/2024 | | 7.06 | 6.42 | 7.23 | 5.81 | 7.81 | 7.59 |
| 2/23/2024 | 5.39 | | | | | | |

# Time Series

Constituent: pH (S.U.)  Analysis Run 5/2/2024 9:49 AM

Plant Yates  Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | 5.85 | 5.24 | 6.32 | 6.24 | | | |
| 6/9/2016 | | | | | 6.42 | 6.39 | |
| 8/1/2016 | 5.83 | 5.17 | 6.34 | 6.12 | | | |
| 8/2/2016 | | | | | 6.43 | 6.35 | |
| 8/30/2016 | | | | | | | 5.75 |
| 9/20/2016 | 5.89 | 5.35 | 6.36 | 6.3 | | | |
| 9/21/2016 | | | | | 6.45 | 6.39 | |
| 11/7/2016 | 5.91 | 5.35 | 6.3 | 6.25 | | 6.36 | |
| 11/8/2016 | | | | | 6.37 | | |
| 11/14/2016 | | | | | | | 5.59 |
| 1/18/2017 | 5.84 | 5.2 | 6.31 | | 6.27 | 6.23 | |
| 1/19/2017 | | | | 6.2 | | | |
| 2/21/2017 | 5.79 | 5.14 | | | | 6.42 | |
| 2/22/2017 | | | | 6.14 | 6.35 | | |
| 2/23/2017 | | | 6.18 | | | | |
| 2/24/2017 | | | | | | | 5.49 |
| 5/3/2017 | | 5.28 | | | | | |
| 5/5/2017 | | | | | 6.36 | 6.4 | |
| 5/8/2017 | 5.84 | | 6.24 | 6.11 | | | 5.58 |
| 6/30/2017 | | | 6.21 | 6.17 | | | |
| 7/5/2017 | | | | | 6.4 | | |
| 7/7/2017 | | | | | | 6.46 | |
| 7/10/2017 | 5.92 | 5.25 | | | | | |
| 7/11/2017 | | | | | | | 5.58 |
| 10/5/2017 | | | | | 6.43 | | |
| 10/6/2017 | | | | 6.13 | | | |
| 10/9/2017 | | | 6.26 | | | 6.37 | |
| 10/10/2017 | 5.84 | 5.17 | | | | | 5.49 |
| 3/29/2018 | | | 6.36 | 6.25 | | | |
| 3/30/2018 | 6.19 | 5.19 | | | 6.39 | 6.35 | |
| 4/2/2018 | | | | | | | 6.3 (o) |
| 6/12/2018 | | | | 6.22 | 6.42 | 6.47 | |
| 6/13/2018 | 5.82 | 5.12 | 6.28 | | | | |
| 9/19/2018 | | | | | | | 5.48 |
| 10/2/2018 | 5.81 | 4.95 | 5.9 | 5.99 | | | |
| 10/3/2018 | | | | | 6.21 | 6.01 | |
| 2/27/2019 | 5.79 | 5 | 6.31 | 6.26 | 6.32 | 6.38 | |
| 3/27/2019 | | | | | | | 5.83 |
| 4/1/2019 | | | 6.43 | 6.4 | 6.3 | | |
| 4/2/2019 | 5.87 | 5.13 | | | | 6.7 | |
| 8/20/2019 | | | | | | | 5.58 |
| 9/25/2019 | 5.79 | 5.24 | | | | | |
| 9/26/2019 | | | 6.3 | 6.22 | 6.43 | 6.47 | |
| 10/8/2019 | | | | | | | 5.59 |
| 2/13/2020 | 5.93 | 5.29 | 6.4 | 6.31 | 6.49 | 6.53 | |
| 3/17/2020 | | | | | | | 5.57 |
| 3/19/2020 | | 5.46 | | | 7.01 | 6.98 | |
| 3/20/2020 | 5.94 | | 6.32 | 6.18 | | | |
| 8/27/2020 | | | | | | | 4.88 |
| 9/22/2020 | | | | | | | 5.46 |
| 9/24/2020 | 5.86 | 5.46 | 6.36 | 6.27 | 6.41 | 6.53 | |
| 2/10/2021 | 5.96 | 5.18 | 6.29 | 6.21 | | | |

# Time Series

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 2/11/2021 | | | | | 6.57 | | |
| 2/12/2021 | | | | | | 6.6 | |
| 3/1/2021 | | | | | | | 5.48 |
| 3/2/2021 | | 5.38 | | | | | |
| 3/3/2021 | 5.93 | | 6.43 | 6.35 | 6.51 | 6.61 | |
| 8/19/2021 | | 5.12 | | | | | 5.5 |
| 8/20/2021 | 5.78 | | 6.17 | 6.18 | 6.23 | 6.38 | |
| 2/8/2022 | | | | 6.22 | 6.34 | 6.3 | 5.4 |
| 2/10/2022 | 5.84 | 5.31 | 6.23 | | | | |
| 8/31/2022 | 5.77 | 5.61 | | | | | 5.32 |
| 9/1/2022 | | | 6.13 | 6.13 | 6.41 | 6.59 | |
| 2/8/2023 | | | | | | | 5.22 |
| 2/9/2023 | 5.76 | 5.64 | 6.48 | 6.64 | 6.7 | 6.87 | |
| 8/15/2023 | | | | | | | 5.69 |
| 8/16/2023 | | | | | 6.3 | 6.36 | |
| 8/17/2023 | 5.77 | 5.38 | 6.2 | 6.06 | | | |
| 2/20/2024 | | | | | | | 5.62 |
| 2/21/2024 | | | 6.43 | 6.26 | 6.43 | 6.49 | |
| 2/22/2024 | 5.92 | 5.58 | | | | | |

# Time Series

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (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 | | | | | |
| 10/11/2017 | | | | | | 6.4 | |
| 10/12/2017 | | | | | | | 5.43 |
| 11/20/2017 | | | | | | 6.33 | 5.1 |
| 1/10/2018 | | | | | | | 4.97 |
| 1/11/2018 | | | | | | 6.29 | |
| 2/19/2018 | | | | | | | 5.6 |
| 2/20/2018 | | | | | | 7.22 | |
| 3/28/2018 | 5.59 | 6.1 | 5.34 | | | | |
| 3/29/2018 | | | | 5.93 | 6.75 | | |
| 4/3/2018 | | | | | | 6.87 | 5.84 |
| 6/5/2018 | | | | | 6.09 | | |
| 6/6/2018 | | | | 5.86 | | | |
| 6/7/2018 | | 5.98 | | | | | |
| 6/11/2018 | 5.58 | | 5.28 | | | | |
| 6/28/2018 | | | | | | 6.18 | 5.24 |
| 8/7/2018 | | | | | | 6.08 | 5.18 |
| 9/24/2018 | | | | | | 5.81 | 5.14 |
| 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 | | | | | |
| 3/26/2019 | | | | | | | 5.3 |
| 3/27/2019 | | | | | | 5.84 | |
| 4/2/2019 | 5.74 | | | | 6.94 | | |
| 4/3/2019 | | 6.29 | 5.47 | 5.71 | | | |
| 8/21/2019 | | | | | | 5.96 | 5.26 |
| 9/24/2019 | | | | | 6.87 | | |
| 9/25/2019 | 5.49 | | | 5.86 | | | |
| 9/26/2019 | | 6.04 | 5.2 | | | | |
| 10/9/2019 | | | | | | 5.81 | 5.22 |
| 2/11/2020 | 5.58 | 6.07 | 5.3 | | | | |
| 2/12/2020 | | | | 6 | 7.13 | 5.97 | 5.3 |
| 3/24/2020 | 5.57 | 5.98 | 5.33 | 5.86 | 6.35 | | 5.29 |

# Time Series

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 3/25/2020 | | | | | | 5.78 | |
| 9/23/2020 | 5.58 | 6.01 | 5.29 | | | | |
| 9/24/2020 | | | | 5.8 | 6.7 | 5.7 | 5.43 |
| 2/9/2021 | | 6.12 | 5.43 | 5.86 | 6.95 | | |
| 2/10/2021 | | | | | | 5.8 | 5.19 |
| 3/3/2021 | 5.52 | 5.89 | 5.31 | 5.89 | | | |
| 3/4/2021 | | | | | 6.8 | 5.54 | 5.23 |
| 8/26/2021 | | | 4.4 | | | 6.91 | |
| 8/27/2021 | 5.27 | 5.4 | | 5.57 | | | |
| 9/1/2021 | | | | | 6.65 | | |
| 9/3/2021 | | | | | | | 4.75 |
| 2/8/2022 | | | | | | 5.78 | 5.26 |
| 2/9/2022 | 5.53 | 5.98 | 5.28 | 5.91 | 6.84 | | |
| 8/30/2022 | 4.68 | 5.82 | 5.18 | | 6.58 | | |
| 8/31/2022 | | | | 5.38 | | 5.3 | 4.53 |
| 2/7/2023 | 5.47 | 6 | 5.03 | 5.63 | 6.82 | 5.49 | |
| 2/8/2023 | | | | | | | 5.71 |
| 8/15/2023 | 5.54 | 5.82 | 5.2 | 7 | 6.84 | 5.78 | 5 |
| 2/20/2024 | 5.64 | 6.11 | | 5.99 | 6.78 | 5.97 | 5.32 |
| 2/23/2024 | | | 5.3 | | | | |

# Time Series

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 8/27/2008 | | | | 6.53 | |
| 3/3/2009 | | | | 6.35 | |
| 11/18/2009 | | | | 6.47 | |
| 3/3/2010 | | | | 6.53 | |
| 3/10/2011 | | | | 5.83 | |
| 9/8/2011 | | | | 5.69 | |
| 3/5/2012 | | | | 6.27 | |
| 9/10/2012 | | | | 6.23 | |
| 2/6/2013 | | | | 7.56 | |
| 8/12/2013 | | | | 6.68 | |
| 2/5/2014 | | | | 6.32 | |
| 8/3/2015 | | | | 6.13 (D) | |
| 2/16/2016 | | | | 5.64 | |
| 6/2/2016 | 6.36 | 7.67 | 5.75 | | |
| 6/9/2016 | | | | | 6.19 |
| 7/26/2016 | 6.22 | 7.66 | 5.72 | | |
| 8/2/2016 | | | | | 6.17 |
| 9/14/2016 | 6.23 | 7.6 | 5.74 | | |
| 9/21/2016 | | | | | 6.2 |
| 11/2/2016 | 6.08 | 7.35 | | | |
| 11/4/2016 | | | 5.61 | | |
| 11/7/2016 | | | | | 6.1 |
| 11/28/2016 | | | | 6.23 | |
| 1/12/2017 | | 7.49 | 5.71 | | |
| 1/13/2017 | 6.19 | | | | |
| 1/19/2017 | | | | | 6.22 |
| 2/22/2017 | | | | 6.21 | 6.12 |
| 3/6/2017 | 6.2 | | | | |
| 3/7/2017 | | 7.43 | 5.66 | | |
| 5/1/2017 | 6.21 | 7.22 | | | |
| 5/2/2017 | | | 5.65 | | |
| 5/8/2017 | | | | 6.12 | 6.11 |
| 6/27/2017 | | 7.32 | 5.7 | | |
| 6/29/2017 | 6.21 | | | | |
| 7/5/2017 | | | | | 6.17 |
| 7/17/2017 | | | | 6.03 | |
| 10/3/2017 | | 7.48 | 5.79 | | |
| 10/5/2017 | 6.16 | | | | 6.17 |
| 10/16/2017 | | | | 6.12 | |
| 2/19/2018 | | | | 6.13 | |
| 3/29/2018 | 6.09 | 7.02 | 5.63 | | 6.09 |
| 6/6/2018 | | 7.43 | | | |
| 6/7/2018 | 6.12 | | 5.63 | | |
| 6/11/2018 | | | | | 6.17 |
| 8/6/2018 | | | | 6.01 | |
| 9/26/2018 | 5.84 | 7.13 | 5.63 | | |
| 10/2/2018 | | | | | 6.17 |
| 2/25/2019 | | | | 6.51 | |
| 2/27/2019 | | | | | 6.19 |
| 3/4/2019 | 6.18 | 7.46 | 5.75 | | |
| 4/1/2019 | | | | | 6.03 |
| 4/3/2019 | 6.43 | 7.11 | 5.63 | | |

# Time Series

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 6/12/2019 | | | | 6.3 | |
| 8/19/2019 | | | | 6.23 | |
| 9/24/2019 | | 6.93 | 5.6 | | |
| 9/25/2019 | 6.2 | | | | 6.21 |
| 10/8/2019 | | | | 6.28 | |
| 2/12/2020 | 6.15 | 7.52 | 5.83 | | |
| 2/13/2020 | | | | | 6.32 |
| 3/17/2020 | | | | 6.14 | |
| 3/20/2020 | | | | | 6.17 |
| 3/24/2020 | | 7.34 | 5.81 | | |
| 3/25/2020 | 6.26 | | | | |
| 5/6/2020 | | | | 6.24 | |
| 8/26/2020 | | | | 5.67 | |
| 9/22/2020 | 5.8 | 7.19 | 5.99 | 5.78 | |
| 9/24/2020 | | | | | 6.2 |
| 2/8/2021 | | | 5.67 | | |
| 2/9/2021 | 6.06 | | | | |
| 2/12/2021 | | | | | 6.24 |
| 3/2/2021 | | 7.15 | 5.63 | 5.42 | |
| 3/3/2021 | 6.21 | | | | 6.27 |
| 8/20/2021 | | | | 5.86 | 6.07 |
| 8/26/2021 | 5.82 | 7.16 | 5.51 | | |
| 2/8/2022 | | | | 5.83 | 5.88 |
| 2/10/2022 | | 6.99 | 5.14 | | |
| 2/11/2022 | 5.95 | | | | |
| 8/30/2022 | | 7.4 | 5 | 5.39 | |
| 8/31/2022 | 5.5 | | | | |
| 9/1/2022 | | | | | 6.05 |
| 2/7/2023 | | 6.64 | | 5.94 | |
| 2/8/2023 | | | | | 6.67 |
| 2/9/2023 | 6.23 | | 5.9 | | |
| 8/2/2023 | | | | | 6.04 |
| 8/15/2023 | 5.99 | 7.34 | 5.58 | 5.3 | |
| 2/20/2024 | 6.21 | 7.56 | 5.78 | 6.07 | |
| 2/22/2024 | | | | | 6.01 |

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 6/1/2016 | | <0.005 | <0.005 | | | | <0.005 |
| 6/2/2016 | 0.0011 (J) | | | | <0.005 | <0.005 | |
| 7/25/2016 | | | <0.005 | | <0.005 | | <0.005 |
| 7/26/2016 | 0.0016 (J) | <0.005 | | | | <0.005 | |
| 9/13/2016 | | <0.005 | <0.005 | | | | |
| 9/14/2016 | | | | <0.005 | | | <0.005 |
| 9/15/2016 | 0.0014 (J) | | | | | <0.005 | |
| 9/19/2016 | | | | | <0.005 | | |
| 11/1/2016 | | <0.005 | | | <0.005 | <0.005 | <0.005 |
| 11/2/2016 | <0.005 | | | | | | |
| 11/4/2016 | | | <0.005 | <0.005 | | | |
| 12/15/2016 | | | | <0.005 | | | |
| 1/10/2017 | 0.0012 (J) | | | | | | |
| 1/11/2017 | | <0.005 | | | | <0.005 | <0.005 |
| 1/16/2017 | | | <0.005 | <0.005 | <0.005 | | |
| 2/21/2017 | | | | | <0.005 | | |
| 3/1/2017 | | | | | | | <0.005 |
| 3/2/2017 | | <0.005 | <0.005 | | | <0.005 | |
| 3/3/2017 | | | | <0.005 | | | |
| 3/8/2017 | <0.005 | | | | | | |
| 4/26/2017 | <0.005 | | | | <0.005 | <0.005 | <0.005 |
| 4/27/2017 | | <0.005 | <0.005 | | | | |
| 4/28/2017 | | | | <0.005 | | | |
| 5/26/2017 | | | | <0.005 | | | |
| 6/27/2017 | | <0.005 | <0.005 | | | | |
| 6/28/2017 | | | | <0.005 | | <0.005 | <0.005 |
| 6/30/2017 | <0.005 | | | | <0.005 | | |
| 3/27/2018 | <0.005 | | <0.005 | | <0.005 | | |
| 3/28/2018 | | | | <0.005 | | <0.005 | <0.005 |
| 3/29/2018 | | <0.005 | | | | | |
| 2/26/2019 | <0.005 | | | | <0.005 | | |
| 2/27/2019 | | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 |
| 3/28/2019 | | <0.005 | <0.005 | | | | |
| 3/29/2019 | 0.0019 (J) | | | <0.005 | | | |
| 4/1/2019 | | | | | <0.005 | <0.005 | <0.005 |
| 9/24/2019 | | <0.005 | <0.005 | <0.005 | | | |
| 9/25/2019 | <0.005 | | | | <0.005 | <0.005 | <0.005 |
| 2/10/2020 | | <0.005 | <0.005 | | | | |
| 2/11/2020 | | | | <0.005 | | | <0.005 |
| 2/12/2020 | <0.005 | | | | <0.005 | <0.005 | |
| 3/18/2020 | <0.005 | | <0.005 | | | | |
| 3/19/2020 | | <0.005 | | <0.005 | <0.005 | <0.005 | <0.005 |
| 9/23/2020 | | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 |
| 9/24/2020 | | | | | <0.005 | | |
| 9/25/2020 | <0.005 | | | | | | |
| 2/10/2021 | <0.005 | | | <0.005 | | <0.005 | <0.005 |
| 2/11/2021 | | | | | <0.005 | | |
| 2/12/2021 | | <0.005 | <0.005 | | | | |
| 3/1/2021 | | | | | <0.005 | | |
| 3/2/2021 | <0.005 | | | | | | |
| 3/3/2021 | | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 |
| 8/19/2021 | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 8/27/2021 | | | | <0.005 | | | <0.005 |
| 2/9/2022 | | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 |
| 2/10/2022 | 0.0014 (J) | | | | | | |
| 2/11/2022 | | | | | <0.005 | | |
| 8/30/2022 | | <0.005 | | <0.005 | | | |
| 8/31/2022 | <0.005 | | <0.005 | | <0.005 | <0.005 | <0.005 |
| 2/7/2023 | | <0.005 | <0.005 | <0.005 | | | |
| 2/8/2023 | <0.005 | | | | <0.005 | <0.005 | <0.005 |
| 8/15/2023 | 0.0014 (J) | <0.005 | <0.005 | <0.005 | | <0.005 | |
| 8/16/2023 | | | | | <0.005 | | <0.005 |
| 2/20/2024 | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 2/23/2024 | 0.001 (J) | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | 0.0016 | 0.0003 (J) | <0.005 | <0.005 | | | |
| 6/9/2016 | | | | | <0.005 | <0.005 | |
| 8/1/2016 | 0.0023 (J) | 0.0014 (J) | <0.005 | <0.005 | | | |
| 8/2/2016 | | | | | <0.005 | <0.005 | |
| 8/30/2016 | | | | | | | 0.0017 (J) |
| 9/20/2016 | 0.0022 (J) | <0.005 | <0.005 | <0.005 | | | |
| 9/21/2016 | | | | | <0.005 | 0.001 (J) | |
| 11/7/2016 | 0.0017 (J) | <0.005 | <0.005 | <0.005 | | <0.005 | |
| 11/8/2016 | | | | | <0.005 | | |
| 11/14/2016 | | | | | | | <0.005 |
| 1/18/2017 | 0.002 (J) | 0.0012 (J) | <0.005 | | <0.005 | <0.005 | |
| 1/19/2017 | | | | <0.005 | | | |
| 2/21/2017 | 0.0018 (J) | 0.0014 (J) | | | | <0.005 | |
| 2/22/2017 | | | | <0.005 | 0.0012 (J) | | |
| 2/23/2017 | | | <0.005 | | | | |
| 2/24/2017 | | | | | | | 0.0011 (J) |
| 5/3/2017 | | <0.005 | | | | | |
| 5/5/2017 | | | | | <0.005 | <0.005 | |
| 5/8/2017 | <0.01 | | <0.005 | <0.005 | | | <0.005 |
| 6/30/2017 | | | <0.005 | <0.005 | | | |
| 7/5/2017 | | | | | <0.005 | | |
| 7/7/2017 | | | | | | <0.005 | |
| 7/10/2017 | 0.002 (J) | <0.005 | | | | | |
| 7/11/2017 | | | | | | | <0.005 |
| 10/10/2017 | | | | | | | <0.005 |
| 3/29/2018 | | | <0.005 | <0.005 | | | |
| 3/30/2018 | <0.01 | <0.005 | | | <0.005 | <0.005 | |
| 4/2/2018 | | | | | | | <0.005 |
| 9/19/2018 | | | | | | | <0.005 |
| 2/27/2019 | 0.002 (J) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 4/1/2019 | | | <0.005 | <0.005 | <0.005 | | |
| 4/2/2019 | 0.0017 (J) | <0.005 | | | | <0.005 | |
| 8/20/2019 | | | | | | | <0.005 |
| 9/25/2019 | 0.0019 (J) | <0.005 | | | | | |
| 9/26/2019 | | | <0.005 | <0.005 | <0.005 | <0.005 | |
| 2/13/2020 | 0.0019 (J) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 3/19/2020 | | <0.005 | | | <0.005 | <0.005 | |
| 3/20/2020 | 0.0019 (J) | | <0.005 | <0.005 | | | |
| 8/27/2020 | | | | | | | <0.005 |
| 9/24/2020 | 0.0031 (J) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 2/10/2021 | 0.0026 (J) | <0.005 | <0.005 | <0.005 | | | |
| 2/11/2021 | | | | | <0.005 | | |
| 2/12/2021 | | | | | | <0.005 | |
| 3/2/2021 | | <0.005 | | | | | |
| 3/3/2021 | 0.0034 (J) | | <0.005 | <0.005 | <0.005 | <0.005 | |
| 8/19/2021 | | <0.005 | | | | | <0.005 |
| 8/20/2021 | 0.0026 (J) | | <0.005 | <0.005 | <0.005 | <0.005 | |
| 2/8/2022 | | | | <0.005 | <0.005 | <0.005 | <0.005 |
| 2/10/2022 | 0.0042 (J) | <0.005 | <0.005 | | | | |
| 8/31/2022 | 0.0036 (J) | <0.005 | | | | | <0.005 |
| 9/1/2022 | | | <0.005 | <0.005 | <0.005 | <0.005 | |
| 2/8/2023 | | | | | | | <0.005 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 2/9/2023 | 0.0042 (J) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 8/15/2023 | | | | | | | <0.005 |
| 8/16/2023 | | | | | <0.005 | <0.005 | |
| 8/17/2023 | 0.0046 (J) | <0.005 | <0.005 | <0.005 | | | |
| 2/20/2024 | | | | | | | <0.005 |
| 2/21/2024 | | | <0.005 | <0.005 | <0.005 | <0.005 | |
| 2/22/2024 | 0.0041 (J) | <0.005 | | | | | |

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 6/6/2016 | | <0.005 | <0.005 | | | | |
| 6/7/2016 | 0.001 (J) | | | <0.005 | 0.00048 (J) | | |
| 7/27/2016 | 0.0012 (J) | <0.005 | <0.005 | <0.005 | | | |
| 7/28/2016 | | | | | <0.005 | | |
| 9/16/2016 | 0.0015 (J) | | <0.005 | | | | |
| 9/19/2016 | | <0.005 | | <0.005 | 0.0014 (J) | | |
| 11/2/2016 | | | | <0.005 | | | |
| 11/3/2016 | 0.0015 (J) | <0.005 | <0.005 | | <0.005 | | |
| 1/11/2017 | 0.0014 (J) | <0.005 | <0.005 | | | | |
| 1/13/2017 | | | | <0.005 | <0.005 | | |
| 3/1/2017 | | <0.005 | <0.005 | | | | |
| 3/2/2017 | 0.0017 (J) | | | | | | |
| 3/6/2017 | | | | <0.005 | <0.005 | | |
| 4/26/2017 | | <0.005 | <0.005 | <0.005 | <0.005 | | |
| 5/2/2017 | <0.005 | | | | | | |
| 6/28/2017 | | <0.005 | <0.005 | | | | |
| 6/29/2017 | <0.005 | | | <0.005 | <0.005 | | |
| 10/11/2017 | | | | | | <0.005 | |
| 10/12/2017 | | | | | | | <0.005 |
| 11/20/2017 | | | | | | <0.005 | 0.0042 (J) |
| 1/10/2018 | | | | | | | 0.0043 (J) |
| 1/11/2018 | | | | | | <0.005 | |
| 2/19/2018 | | | | | | | <0.005 |
| 2/20/2018 | | | | | | <0.005 | |
| 3/28/2018 | <0.005 | <0.005 | <0.005 | | | | |
| 3/29/2018 | | | | <0.005 | <0.005 | | |
| 4/3/2018 | | | | | | <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 | | | | |
| 6/28/2018 | | | | | | <0.005 | 0.0032 (J) |
| 8/7/2018 | | | | | | <0.005 | 0.0031 (J) |
| 9/24/2018 | | | | | | 0.0015 (J) | 0.0026 (J) |
| 9/25/2018 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | | |
| 3/5/2019 | <0.005 | | <0.005 | <0.005 | <0.005 | | |
| 3/6/2019 | | <0.005 | | | | | |
| 4/2/2019 | <0.005 | | | | <0.005 | | |
| 4/3/2019 | | <0.005 | <0.005 | <0.005 | | | |
| 8/21/2019 | | | | | | <0.005 | 0.0024 (J) |
| 9/24/2019 | | | | | <0.005 | | |
| 9/25/2019 | <0.005 | | | <0.005 | | | |
| 9/26/2019 | | <0.005 | <0.005 | | | | |
| 10/9/2019 | | | | | | <0.005 | 0.0026 (J) |
| 2/11/2020 | <0.005 | <0.005 | <0.005 | | | | |
| 2/12/2020 | | | | <0.005 | <0.005 | <0.005 | 0.002 (J) |
| 3/24/2020 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | | 0.002 (J) |
| 3/25/2020 | | | | | | <0.005 | |
| 9/23/2020 | <0.005 | <0.005 | <0.005 | | | | |
| 9/24/2020 | | | | <0.005 | <0.005 | <0.005 | 0.0016 (J) |
| 2/9/2021 | | <0.005 | <0.005 | <0.005 | <0.005 | | |
| 2/10/2021 | | | | | | <0.005 | <0.005 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 3/3/2021 | <0.005 | <0.005 | <0.005 | <0.005 | | | |
| 3/4/2021 | | | | | <0.005 | <0.005 | <0.005 |
| 8/26/2021 | | | <0.005 | | | <0.005 | |
| 8/27/2021 | <0.005 | <0.005 | | <0.005 | | | |
| 9/1/2021 | | | | | <0.005 | | |
| 9/3/2021 | | | | | | | <0.005 |
| 2/8/2022 | | | | | | <0.005 | 0.0014 (J) |
| 2/9/2022 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | | |
| 8/30/2022 | <0.005 | <0.005 | <0.005 | | <0.005 | | |
| 8/31/2022 | | | | <0.005 | | <0.005 | <0.005 |
| 2/7/2023 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 2/8/2023 | | | | | | | <0.005 |
| 8/15/2023 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 2/20/2024 | <0.005 | <0.005 | | <0.005 | <0.005 | <0.005 | <0.005 |
| 2/23/2024 | | | <0.005 | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 5/1/2007 | | | | <0.005 | |
| 9/11/2007 | | | | <0.005 | |
| 3/20/2008 | | | | <0.005 | |
| 8/27/2008 | | | | <0.005 | |
| 3/3/2009 | | | | <0.005 | |
| 11/18/2009 | | | | <0.005 | |
| 3/3/2010 | | | | <0.005 | |
| 9/8/2010 | | | | <0.005 | |
| 3/10/2011 | | | | <0.005 | |
| 9/8/2011 | | | | <0.005 | |
| 3/5/2012 | | | | <0.005 | |
| 9/10/2012 | | | | <0.005 | |
| 2/6/2013 | | | | <0.005 | |
| 8/12/2013 | | | | <0.005 | |
| 2/5/2014 | | | | <0.005 | |
| 8/5/2014 | | | | <0.005 | |
| 2/4/2015 | | | | <0.005 | |
| 8/3/2015 | | | | <0.005 | |
| 2/16/2016 | | | | <0.005 | |
| 6/2/2016 | <0.005 | <0.005 | <0.005 | | |
| 6/9/2016 | | | | | <0.005 |
| 7/26/2016 | 0.0009 (J) | <0.005 | 0.0009 (J) | | |
| 8/2/2016 | | | | | <0.005 |
| 8/31/2016 | | | | <0.005 | |
| 9/14/2016 | <0.005 | <0.005 | <0.005 | | |
| 9/21/2016 | | | | | <0.005 |
| 11/2/2016 | <0.005 | <0.005 | | | |
| 11/4/2016 | | | <0.005 | | |
| 11/7/2016 | | | | | <0.005 |
| 11/28/2016 | | | | <0.005 | |
| 1/12/2017 | | <0.005 | <0.005 | | |
| 1/13/2017 | <0.005 | | | | |
| 1/19/2017 | | | | | <0.005 |
| 2/22/2017 | | | | <0.005 | <0.005 |
| 3/6/2017 | <0.005 | | | | |
| 3/7/2017 | | <0.005 | <0.005 | | |
| 5/1/2017 | <0.005 | <0.005 | | | |
| 5/2/2017 | | | <0.005 | | |
| 5/8/2017 | | | | <0.005 | <0.005 |
| 6/27/2017 | | <0.005 | <0.005 | | |
| 6/29/2017 | <0.005 | | | | |
| 7/5/2017 | | | | | <0.005 |
| 7/17/2017 | | | | <0.005 | |
| 10/16/2017 | | | | <0.005 | |
| 2/19/2018 | | | | <0.005 | |
| 3/29/2018 | <0.005 | <0.005 | <0.005 | | <0.005 |
| 6/6/2018 | | <0.005 | | | |
| 6/7/2018 | <0.005 | | <0.005 | | |
| 8/6/2018 | | | | <0.005 | |
| 9/26/2018 | <0.005 | <0.005 | <0.005 | | |
| 2/25/2019 | | | | <0.005 | |
| 2/27/2019 | | | | | <0.005 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Selenium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 3/4/2019 | <0.005 | <0.005 | <0.005 | | |
| 4/1/2019 | | | | | <0.005 |
| 4/3/2019 | <0.005 | <0.005 | <0.005 | | |
| 6/12/2019 | | | | <0.005 | |
| 8/19/2019 | | | | <0.005 | |
| 9/24/2019 | | <0.005 | <0.005 | | |
| 9/25/2019 | <0.005 | | | | <0.005 |
| 10/8/2019 | | | | <0.005 | |
| 2/12/2020 | <0.005 | <0.005 | <0.005 | | |
| 2/13/2020 | | | | | <0.005 |
| 3/17/2020 | | | | <0.005 | |
| 3/20/2020 | | | | | <0.005 |
| 3/24/2020 | | <0.005 | <0.005 | | |
| 3/25/2020 | <0.005 | | | | |
| 8/26/2020 | | | | <0.005 | |
| 9/22/2020 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 9/24/2020 | | | | | <0.005 |
| 2/8/2021 | | <0.005 | <0.005 | | |
| 2/9/2021 | <0.005 | | | | |
| 2/12/2021 | | | | | <0.005 |
| 3/2/2021 | | <0.005 | <0.005 | <0.005 | |
| 3/3/2021 | 0.0019 (J) | | | | <0.005 |
| 8/20/2021 | | | | <0.005 | <0.005 |
| 8/26/2021 | <0.005 | <0.005 | <0.005 | | |
| 2/8/2022 | | | | <0.005 | <0.005 |
| 2/10/2022 | | <0.005 | <0.005 | | |
| 2/11/2022 | <0.005 | | | | |
| 8/30/2022 | | <0.005 | <0.005 | <0.005 | |
| 8/31/2022 | <0.005 | | | | |
| 9/1/2022 | | | | | <0.005 |
| 2/7/2023 | | <0.005 | | <0.005 | |
| 2/8/2023 | | | | | <0.005 |
| 2/9/2023 | <0.005 | | <0.005 | | |
| 8/2/2023 | | | | | <0.005 |
| 8/15/2023 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 2/20/2024 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 2/22/2024 | | | | | <0.005 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 6/1/2016 | | 5 | 4.2 | | | | 12 |
| 6/2/2016 | 6.6 | | | | 1.3 | 5.8 | |
| 7/25/2016 | | | 3.7 | | 1.2 | | 8.4 |
| 7/26/2016 | 6.1 | 5.4 | | | | 6.7 | |
| 9/13/2016 | | 2.9 | 5.2 | | | | |
| 9/14/2016 | | | | 9.4 | | | 8.6 |
| 9/15/2016 | 6.1 | | | | | 6 | |
| 9/19/2016 | | | | | 1.2 | | |
| 11/1/2016 | | 3.9 | | | 1.3 | 4.9 | 8.9 |
| 11/2/2016 | 6.3 | | | | | | |
| 11/4/2016 | | | 5 | 13 | | | |
| 12/15/2016 | | | | 1.8 | | | |
| 1/10/2017 | 5.9 | | | | | | |
| 1/11/2017 | | 3.7 | | | | 4.5 | 8.6 |
| 1/16/2017 | | | 7.9 | 11 | <1.5 | | |
| 2/21/2017 | | | | | 1.4 | | |
| 3/1/2017 | | | | | | | 9.3 |
| 3/2/2017 | | 4.6 | 7.4 | | | 4.4 | |
| 3/3/2017 | | | | 8.8 | | | |
| 3/8/2017 | 7 | | | | | | |
| 4/26/2017 | 7 | | | | 1.4 | 5.1 | 11 |
| 4/27/2017 | | 5.2 | 7.4 | | | | |
| 4/28/2017 | | | | 10 | | | |
| 5/26/2017 | | | | 12 | | | |
| 6/27/2017 | | 5.9 | 6.4 | | | | |
| 6/28/2017 | | | | 11 | | 5.4 | 12 |
| 6/30/2017 | 6.5 | | | | <1.5 | | |
| 10/3/2017 | | 6.6 | 5.9 | 7.9 | | | |
| 10/4/2017 | | | | | 1.4 | 6.2 | 12 |
| 10/5/2017 | 7.9 | | | | | | |
| 6/5/2018 | | 6.4 | | | | | |
| 6/6/2018 | | | 4.4 | | | | |
| 6/7/2018 | | | | 8.8 | | 6.7 | |
| 6/8/2018 | 6.4 | | | | | | 9.6 |
| 6/11/2018 | | | | | 1.1 | | |
| 10/1/2018 | 6.8 | 5.6 | 4 | 9.1 | | 7.1 | 9.1 |
| 10/2/2018 | | | | | 1 | | |
| 3/28/2019 | | 8 | 4.3 | | | | |
| 3/29/2019 | 7.3 | | | 9 | | | |
| 4/1/2019 | | | | | 0.96 (J) | 7.2 | 8.5 |
| 9/24/2019 | | 5.3 | 4.3 | 9.1 | | | |
| 9/25/2019 | 6.6 | | | | 0.81 (J) | 7 | 13.8 |
| 3/18/2020 | 8.1 | | 5.3 | | | | |
| 3/19/2020 | | 10 | | 12.4 | 1.6 | 9 | 12.9 |
| 9/23/2020 | | 8.1 | 3.4 | 11.8 | | 6.9 | 16.8 |
| 9/24/2020 | | | | | 0.69 (J) | | |
| 9/25/2020 | 6.1 | | | | | | |
| 3/1/2021 | | | | | 0.88 (J) | | |
| 3/2/2021 | 6 | | | | | | |
| 3/3/2021 | | 9 | 4.4 | 10.6 | | 7 | 9.6 |
| 8/19/2021 | 6.7 | 8.9 | 4.9 | | 1 | 7.5 | |
| 8/27/2021 | | | | 16.7 | | | 18.2 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 2/9/2022 | | 9.3 | 5.1 | 18 | | 7.2 | 16 |
| 2/10/2022 | 6.2 | | | | | | |
| 2/11/2022 | | | | | 2.8 | | |
| 8/30/2022 | | 10.2 | | 20.1 | | | |
| 8/31/2022 | 5.8 | | 4.8 | | 1.1 | 6.9 | 13.9 |
| 2/7/2023 | | 10.6 | 6.6 | 17.8 | | | |
| 2/8/2023 | 6.1 | | | | 0.96 (J) | 7.5 | 14.7 |
| 8/15/2023 | 6 | 9.6 | 4.6 | 17.2 | | 6.8 | |
| 8/16/2023 | | | | | 0.9 (J) | | 20.3 |
| 2/20/2024 | | 9.7 | 4.3 | 23.1 | 0.69 (J) | 7 | 13.8 |
| 2/23/2024 | 7.1 | | | | | | |

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | 81 | 110 | 3.2 | 26 | | | |
| 6/9/2016 | | | | | 8.7 | 5.2 | |
| 8/1/2016 | 75 | 96 | 3.6 | 27 | | | |
| 8/2/2016 | | | | | 7.5 | 4.5 | |
| 8/30/2016 | | | | | | | 160 |
| 9/20/2016 | 78 | 100 | 5.6 | 21 | | | |
| 9/21/2016 | | | | | 8 | <4.7 (*) | |
| 11/7/2016 | 81 | 100 | 5.4 | 24 | | 4.3 | |
| 11/8/2016 | | | | | 8.3 | | |
| 11/14/2016 | | | | | | | 150 |
| 1/18/2017 | 95 | 100 | 3.5 | | 8 | 2.7 | |
| 1/19/2017 | | | | 25 | | | |
| 2/21/2017 | 80 | 96 | | | | 3 | |
| 2/22/2017 | | | | 24 | 8.2 | | |
| 2/23/2017 | | | 4.9 | | | | |
| 2/24/2017 | | | | | | | 120 |
| 5/3/2017 | | 100 | | | | | |
| 5/5/2017 | | | | | <8.4 (*) | <4.7 (*) | |
| 5/8/2017 | 84 | | 3.9 | 23 | | | 120 |
| 6/30/2017 | | | 5 | 23 | | | |
| 7/5/2017 | | | | | 8.1 | | |
| 7/7/2017 | | | | | | 2.7 | |
| 7/10/2017 | 84 | 100 | | | | | |
| 7/11/2017 | | | | | | | 110 |
| 10/5/2017 | | | | | 8.6 | | |
| 10/6/2017 | | | | 23 | | | |
| 10/9/2017 | | | 5.1 | | | 2.9 | |
| 10/10/2017 | 82 | 97 | | | | | 93 |
| 4/2/2018 | | | | | | | 88.8 |
| 6/12/2018 | | | | 18.1 | 8.2 | 2.9 | |
| 6/13/2018 | 76.5 | 93.3 | 6.1 | | | | |
| 9/19/2018 | | | | | | | 75 |
| 10/2/2018 | 83.9 | 99 | 6.1 | 20.2 | | | |
| 10/3/2018 | | | | | 8 | 2.1 | |
| 3/27/2019 | | | | | | | 65.9 |
| 4/1/2019 | | | 4.1 | 18.3 | 8.2 | | |
| 4/2/2019 | 77.6 | 94.5 | | | | 2.4 | |
| 9/25/2019 | 80.1 | 97 | | | | | |
| 9/26/2019 | | | 4.2 | 18.2 | 7.9 | 1.6 | |
| 10/8/2019 | | | | | | | 52.3 |
| 3/17/2020 | | | | | | | 71.6 |
| 3/19/2020 | | 99.4 | | | 9.1 | 1.7 | |
| 3/20/2020 | 84.7 | | 5.2 | 21.1 | | | |
| 9/22/2020 | | | | | | | 51.5 |
| 9/24/2020 | 85.6 | 92.3 | 3 | 16.6 | 7.2 | 0.99 (J) | |
| 3/1/2021 | | | | | | | 51.6 |
| 3/2/2021 | | 92.7 | | | | | |
| 3/3/2021 | 89.3 | | 2.6 | 451 (o) | 8.6 | 4.9 | |
| 8/19/2021 | | 86.5 | | | | | 52.6 |
| 8/20/2021 | 84 | | 2.9 | 18 | 8.9 | 5.4 | |
| 2/8/2022 | | | | 16.3 | 8.1 | 10.5 | 50.9 |
| 2/10/2022 | 81.8 | 86.5 | 2.4 | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 8/31/2022 | 85.9 | 90.2 | | | | | 48 |
| 9/1/2022 | | | 2.5 | 13.5 | 7.6 | 13.4 | |
| 2/8/2023 | | | | | | | 50.5 |
| 2/9/2023 | 84.2 | 89.7 | 3.2 | 13.7 | 7.4 | 16 | |
| 8/15/2023 | | | | | | | 47.7 |
| 8/16/2023 | | | | | 7.8 | 16.2 | |
| 8/17/2023 | 81.1 | 85.7 | 3.3 | 14.2 | | | |
| 2/20/2024 | | | | | | | 51 |
| 2/21/2024 | | | 3.8 | 13 | 8.5 | 3.9 | |
| 2/22/2024 | 80.7 | 89.3 | | | | | |

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (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 | <1.5 | | | | |
| 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 | <1.5 | | | | |
| 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 | | | | | |
| 10/11/2017 | | | | | | 20 | |
| 10/12/2017 | | | | | | | 17 |
| 11/20/2017 | | | | | | 24 | 71 |
| 1/10/2018 | | | | | | | 66 |
| 1/11/2018 | | | | | | 23 | |
| 2/19/2018 | | | | | | | 57.2 |
| 2/20/2018 | | | | | | 20.6 | |
| 4/3/2018 | | | | | | 24.5 | 49.4 |
| 6/5/2018 | | | | | 6.1 | | |
| 6/6/2018 | | | | 0.049 (J) | | | |
| 6/7/2018 | | 0.68 (J) | | | | | |
| 6/11/2018 | 5.2 | | 0.95 (J) | | | | |
| 6/28/2018 | | | | | | 22 | 43.8 |
| 8/7/2018 | | | | | | 20.7 | 40.5 |
| 9/24/2018 | | | | | | 21.2 | 39.7 |
| 9/25/2018 | 6.1 | 1 | 1.5 | 0.13 (J) | 7 | | |
| 3/26/2019 | | | | | | | 34.3 |
| 3/27/2019 | | | | | | 17.7 | |
| 4/2/2019 | 5.1 | | | | 3.8 | | |
| 4/3/2019 | | 0.82 (J) | 1.3 | 0.12 (J) | | | |
| 9/24/2019 | | | | | 1 | | |
| 9/25/2019 | 5.5 | | | <1 | | | |
| 9/26/2019 | | 0.64 (J) | 1 | | | | |
| 10/9/2019 | | | | | | 15 | 27.9 |
| 3/24/2020 | 5.4 | <1 | 0.99 (J) | <1 | 3 | | 25.2 |
| 3/25/2020 | | | | | | 14.3 | |
| 9/23/2020 | 5.1 | 0.53 (J) | 1.1 | | | | |
| 9/24/2020 | | | | <1 | 3.6 | 11.7 | 22.9 |
| 3/3/2021 | 5.2 | <1 | 1 | <1 | | | |
| 3/4/2021 | | | | | 4.5 | 12 | 21.5 |
| 8/26/2021 | | | 1.2 | | | 19.2 | |
| 8/27/2021 | 5.3 | 0.59 (J) | | <1 | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 9/1/2021 | | | | | 5 | | |
| 9/3/2021 | | | | | | | 21.3 |
| 2/8/2022 | | | | | | 14.6 | 17.9 |
| 2/9/2022 | 4.8 | 0.51 (J) | 1.1 | <1 | 3.9 | | |
| 8/30/2022 | 4.7 | 0.78 (J) | 1.3 | | 3.2 | | |
| 8/31/2022 | | | | <1 | | 10.9 | 17.9 |
| 2/7/2023 | 4.9 | 0.78 (J) | 1.2 | <1 | 3.8 | 9.7 | |
| 2/8/2023 | | | | | | | 17.5 |
| 8/15/2023 | 4.6 | 0.51 (J) | 0.88 (J) | <1 | 4.1 | 7.6 | 16.4 |
| 2/20/2024 | 4.6 | <1 | | <1 | 3.8 | 8.6 | 17.2 |
| 2/23/2024 | | | 0.79 (J) | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 6/2/2016 | 8 | 20 | 1.9 | | |
| 6/9/2016 | | | | | 33 |
| 7/26/2016 | 7.7 | 20 | 1.8 | | |
| 8/2/2016 | | | | | 32 |
| 8/31/2016 | | | | 29 | |
| 9/14/2016 | 7.5 | 19 | 1.8 | | |
| 9/21/2016 | | | | | 32 |
| 11/2/2016 | 8.2 | 20 | | | |
| 11/4/2016 | | | 2 | | |
| 11/7/2016 | | | | | 33 |
| 11/28/2016 | | | | 36 | |
| 1/12/2017 | | 19 | 1.9 | | |
| 1/13/2017 | 8.1 | | | | |
| 1/19/2017 | | | | | 32 |
| 2/22/2017 | | | | 43 | 31 |
| 3/6/2017 | 8 | | | | |
| 3/7/2017 | | 20 | 2.1 | | |
| 5/1/2017 | 8.4 | 20 | | | |
| 5/2/2017 | | | 2 | | |
| 5/8/2017 | | | | 60 | 32 |
| 6/27/2017 | | 18 | 2.1 | | |
| 6/29/2017 | 9.2 | | | | |
| 7/5/2017 | | | | | 31 |
| 7/17/2017 | | | | 63 | |
| 10/3/2017 | | 16 | 2.3 | | |
| 10/5/2017 | 9.6 | | | | 31 |
| 10/16/2017 | | | | 62 | |
| 2/19/2018 | | | | 64.6 | |
| 6/6/2018 | | 8.3 | | | |
| 6/7/2018 | 8.5 | | 2 | | |
| 6/11/2018 | | | | | 30.6 |
| 8/6/2018 | | | | 42.1 | |
| 9/26/2018 | 10.2 | 7.9 | 2.3 | | |
| 10/2/2018 | | | | | 30.8 |
| 2/25/2019 | | | | 42.1 | |
| 4/1/2019 | | | | | 30.4 |
| 4/3/2019 | 8.5 | 7 | 2.1 | | |
| 6/12/2019 | | | | 83.4 | |
| 9/24/2019 | | 5.5 | 2.4 | | |
| 9/25/2019 | 8.5 | | | | 30 |
| 10/8/2019 | | | | 128 | |
| 3/17/2020 | | | | 98.6 | |
| 3/20/2020 | | | | | 33 |
| 3/24/2020 | | 5.9 | 2.1 | | |
| 3/25/2020 | 8.8 | | | | |
| 9/22/2020 | 8.2 | 5.5 | 2.1 | 145 | |
| 9/24/2020 | | | | | 26.2 |
| 3/2/2021 | | 2.6 | 2.3 | 156 | |
| 3/3/2021 | 7.8 | | | | 26.6 |
| 8/20/2021 | | | | 121 | 24.7 |
| 8/26/2021 | 8.5 | 6 | 2.4 | | |
| 2/8/2022 | | | | 107 | 22.9 |

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 2/10/2022 | | 4.9 | 2.4 | | |
| 2/11/2022 | 7.7 | | | | |
| 8/30/2022 | | 5.7 | 2.4 | 101 | |
| 8/31/2022 | 8 | | | | |
| 9/1/2022 | | | | | 21.2 |
| 2/7/2023 | | 5.2 | | 82.4 | |
| 2/8/2023 | | | | | 23.7 |
| 2/9/2023 | 8.9 | | 2.9 | | |
| 8/2/2023 | | | | | 22.9 |
| 8/15/2023 | 7.5 | 4.8 | 2.2 | 74.2 | |
| 2/20/2024 | 8.5 | 5.1 | 2.5 | 75 | |
| 2/22/2024 | | | | | 26.9 |

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 6/1/2016 | | <0.001 | <0.001 | | | | <0.001 |
| 6/2/2016 | <0.001 | | | | <0.001 | <0.001 | |
| 7/25/2016 | | | <0.001 | | <0.001 | | <0.001 |
| 7/26/2016 | <0.001 | <0.001 | | | | 0.0001 (J) | |
| 9/13/2016 | | <0.001 | <0.001 | | | | |
| 9/14/2016 | | | | <0.001 | | | <0.001 |
| 9/15/2016 | <0.001 | | | | | <0.001 | |
| 9/19/2016 | | | | | <0.001 | | |
| 11/1/2016 | | <0.001 | | | <0.001 | <0.001 | <0.001 |
| 11/2/2016 | <0.001 | | | | | | |
| 11/4/2016 | | | <0.001 | <0.001 | | | |
| 12/15/2016 | | | | <0.001 | | | |
| 1/10/2017 | <0.001 | | | | | | |
| 1/11/2017 | | <0.001 | | | | <0.001 | <0.001 |
| 1/16/2017 | | | <0.001 | <0.001 | <0.001 | | |
| 2/21/2017 | | | | | <0.001 | | |
| 3/1/2017 | | | | | | | <0.001 |
| 3/2/2017 | | <0.001 | <0.001 | | | <0.001 | |
| 3/3/2017 | | | | <0.001 | | | |
| 3/8/2017 | <0.001 | | | | | | |
| 4/26/2017 | <0.001 | | | | <0.001 | <0.001 | <0.001 |
| 4/27/2017 | | <0.001 | <0.001 | | | | |
| 4/28/2017 | | | | <0.001 | | | |
| 5/26/2017 | | | | <0.001 | | | |
| 6/27/2017 | | <0.001 | <0.001 | | | | |
| 6/28/2017 | | | | <0.001 | | <0.001 | <0.001 |
| 6/30/2017 | <0.001 | | | | <0.001 | | |
| 3/27/2018 | <0.001 | | <0.001 | | <0.001 | | |
| 3/28/2018 | | | | <0.001 | | <0.001 | <0.001 |
| 3/29/2018 | | <0.001 | | | | | |
| 2/26/2019 | <0.001 | | | | <0.001 | | |
| 2/27/2019 | | <0.001 | <0.001 | <0.001 | | <0.001 | <0.001 |
| 2/10/2020 | | <0.001 | 5.5E-05 (J) | | | | |
| 2/11/2020 | | | | <0.001 | | | <0.001 |
| 2/12/2020 | 8.9E-05 (J) | | | | <0.001 | <0.001 | |
| 3/18/2020 | <0.001 | | <0.001 | | | | |
| 3/19/2020 | | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 9/23/2020 | | <0.001 | <0.001 | <0.001 | | <0.001 | 0.00016 (J) |
| 9/24/2020 | | | | | <0.001 | | |
| 9/25/2020 | <0.001 | | | | | | |
| 2/10/2021 | <0.001 | | | <0.001 | | <0.001 | <0.001 |
| 2/11/2021 | | | | | <0.001 | | |
| 2/12/2021 | | <0.001 | <0.001 | | | | |
| 2/9/2022 | | <0.001 | <0.001 | <0.001 | | <0.001 | <0.001 |
| 2/10/2022 | <0.001 | | | | | | |
| 2/11/2022 | | | | | <0.001 | | |
| 8/30/2022 | | <0.001 | | <0.001 | | | |
| 8/31/2022 | <0.001 | | <0.001 | | <0.001 | <0.001 | <0.001 |
| 2/7/2023 | | <0.001 | <0.001 | <0.001 | | | |
| 2/8/2023 | <0.001 | | | | <0.001 | <0.001 | <0.001 |
| 8/15/2023 | <0.001 | <0.001 | <0.001 | <0.001 | | <0.001 | |
| 8/16/2023 | | | | | <0.001 | | <0.001 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 2/20/2024 | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 2/23/2024 | <0.001 | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | <0.001 | <0.001 | <0.001 | 0.00012 (J) | | | |
| 6/9/2016 | | | | | <0.001 | <0.001 | |
| 8/1/2016 | <0.001 | <0.001 | <0.001 | 0.0001 (J) | | | |
| 8/2/2016 | | | | | <0.001 | <0.001 | |
| 8/30/2016 | | | | | | | <0.001 |
| 9/20/2016 | <0.001 | <0.001 | <0.001 | <0.001 | | | |
| 9/21/2016 | | | | | <0.001 | <0.001 | |
| 11/7/2016 | <0.001 | <0.001 | <0.001 | <0.001 | | <0.001 | |
| 11/8/2016 | | | | | <0.001 | | |
| 11/14/2016 | | | | | | | <0.001 |
| 1/18/2017 | <0.001 | <0.001 | <0.001 | | <0.001 | <0.001 | |
| 1/19/2017 | | | | <0.001 | | | |
| 2/21/2017 | <0.001 | <0.001 | | | | <0.001 | |
| 2/22/2017 | | | | <0.001 | <0.001 | | |
| 2/23/2017 | | | <0.001 | | | | |
| 2/24/2017 | | | | | | | <0.001 |
| 5/3/2017 | | <0.001 | | | | | |
| 5/5/2017 | | | | | <0.001 | <0.001 | |
| 5/8/2017 | <0.001 | | <0.001 | 0.0001 (J) | | | <0.001 |
| 6/30/2017 | | | <0.001 | 0.0001 (J) | | | |
| 7/5/2017 | | | | | <0.001 | | |
| 7/7/2017 | | | | | | <0.001 | |
| 7/10/2017 | <0.001 | <0.001 | | | | | |
| 7/11/2017 | | | | | | | <0.001 |
| 10/10/2017 | | | | | | | <0.001 |
| 3/29/2018 | | | <0.001 | <0.001 | | | |
| 3/30/2018 | <0.001 | <0.001 | | | <0.001 | <0.001 | |
| 4/2/2018 | | | | | | | <0.001 |
| 9/19/2018 | | | | | | | <0.001 |
| 2/27/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 8/20/2019 | | | | | | | 5.8E-05 (J) |
| 10/8/2019 | | | | | | | 8.4E-05 (J) |
| 2/13/2020 | <0.001 | 5.7E-05 (J) | <0.001 | 0.0001 (J) | <0.001 | <0.001 | |
| 3/17/2020 | | | | | | | <0.001 |
| 3/19/2020 | | 5.5E-05 (J) | | | <0.001 | <0.001 | |
| 3/20/2020 | <0.001 | | <0.001 | 0.00011 (J) | | | |
| 8/27/2020 | | | | | | | <0.001 |
| 9/24/2020 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 2/10/2021 | <0.001 | <0.001 | <0.001 | <0.001 | | | |
| 2/11/2021 | | | | | <0.001 | | |
| 2/12/2021 | | | | | | <0.001 | |
| 8/19/2021 | | | | | | | <0.001 |
| 2/8/2022 | | | | <0.001 | <0.001 | <0.001 | <0.001 |
| 2/10/2022 | <0.001 | <0.001 | <0.001 | | | | |
| 8/31/2022 | <0.001 | <0.001 | | | | | <0.001 |
| 9/1/2022 | | | <0.001 | <0.001 | <0.001 | <0.001 | |
| 2/8/2023 | | | | | | | <0.001 |
| 2/9/2023 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 8/15/2023 | | | | | | | <0.001 |
| 8/16/2023 | | | | | <0.001 | <0.001 | |
| 8/17/2023 | <0.001 | <0.001 | <0.001 | <0.001 | | | |
| 2/20/2024 | | | | | | | <0.001 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 2/21/2024 | | | <0.001 | <0.001 | <0.001 | <0.001 | |
| 2/22/2024 | <0.001 | <0.001 | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (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 | | |
| 10/11/2017 | | | | | | <0.001 | |
| 10/12/2017 | | | | | | | <0.001 |
| 11/20/2017 | | | | | | <0.001 | <0.001 |
| 1/10/2018 | | | | | | | <0.001 |
| 1/11/2018 | | | | | | <0.001 | |
| 2/19/2018 | | | | | | | <0.001 |
| 2/20/2018 | | | | | | <0.001 | |
| 3/28/2018 | <0.001 | <0.001 | <0.001 | | | | |
| 3/29/2018 | | | | <0.001 | <0.001 | | |
| 4/3/2018 | | | | | | <0.001 | <0.001 |
| 6/28/2018 | | | | | | <0.001 | <0.001 |
| 8/7/2018 | | | | | | <0.001 | <0.001 |
| 9/24/2018 | | | | | | <0.001 | <0.001 |
| 9/25/2018 | | | | | <0.001 | | |
| 3/5/2019 | <0.001 | | <0.001 | <0.001 | <0.001 | | |
| 3/6/2019 | | <0.001 | | | | | |
| 4/2/2019 | <0.001 | | | | <0.001 | | |
| 4/3/2019 | | <0.001 | <0.001 | <0.001 | | | |
| 8/21/2019 | | | | | | <0.001 | <0.001 |
| 9/24/2019 | | | | | <0.001 | | |
| 9/25/2019 | <0.001 | | | <0.001 | | | |
| 9/26/2019 | | <0.001 | <0.001 | | | | |
| 2/11/2020 | <0.001 | <0.001 | <0.001 | | | | |
| 2/12/2020 | | | | <0.001 | <0.001 | <0.001 | <0.001 |
| 3/24/2020 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | | <0.001 |
| 3/25/2020 | | | | | | <0.001 | |
| 9/23/2020 | <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 | | |
| 2/10/2021 | | | | | | <0.001 | <0.001 |
| 2/8/2022 | | | | | | <0.001 | <0.001 |
| 2/9/2022 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| 8/30/2022 | <0.001 | <0.001 | <0.001 | | <0.001 | | |
| 8/31/2022 | | | | <0.001 | | <0.001 | <0.001 |
| 2/7/2023 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 2/8/2023 | | | | | | | <0.001 |
| 8/15/2023 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 2/20/2024 | <0.001 | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 2/23/2024 | | | <0.001 | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 5/1/2007 | | | | <0.001 | |
| 9/11/2007 | | | | <0.001 | |
| 3/20/2008 | | | | <0.001 | |
| 8/27/2008 | | | | <0.001 | |
| 3/3/2009 | | | | <0.001 | |
| 11/18/2009 | | | | <0.001 | |
| 3/3/2010 | | | | <0.001 | |
| 9/8/2010 | | | | <0.001 | |
| 3/10/2011 | | | | <0.001 | |
| 9/8/2011 | | | | <0.001 | |
| 3/5/2012 | | | | <0.001 | |
| 9/10/2012 | | | | <0.001 | |
| 2/6/2013 | | | | <0.001 | |
| 8/12/2013 | | | | <0.001 | |
| 2/5/2014 | | | | <0.001 | |
| 8/5/2014 | | | | <0.001 | |
| 2/4/2015 | | | | <0.001 | |
| 2/16/2016 | | | | <0.001 | |
| 6/2/2016 | <0.001 | <0.001 | <0.001 | | |
| 6/9/2016 | | | | | <0.001 |
| 7/26/2016 | <0.001 | <0.001 | <0.001 | | |
| 8/2/2016 | | | | | <0.001 |
| 8/31/2016 | | | | <0.001 | |
| 9/14/2016 | <0.001 | <0.001 | <0.001 | | |
| 9/21/2016 | | | | | <0.001 |
| 11/2/2016 | <0.001 | <0.001 | | | |
| 11/4/2016 | | | <0.001 | | |
| 11/7/2016 | | | | | <0.001 |
| 11/28/2016 | | | | <0.001 | |
| 1/12/2017 | | <0.001 | <0.001 | | |
| 1/13/2017 | <0.001 | | | | |
| 1/19/2017 | | | | | <0.001 |
| 2/22/2017 | | | | <0.001 | <0.001 |
| 3/6/2017 | <0.001 | | | | |
| 3/7/2017 | | <0.001 | <0.001 | | |
| 5/1/2017 | <0.001 | <0.001 | | | |
| 5/2/2017 | | | <0.001 | | |
| 5/8/2017 | | | | 6E-05 (J) | <0.001 |
| 6/27/2017 | | <0.001 | <0.001 | | |
| 6/29/2017 | <0.001 | | | | |
| 7/5/2017 | | | | | <0.001 |
| 7/17/2017 | | | | 6E-05 (J) | |
| 10/16/2017 | | | | 7E-05 (J) | |
| 2/19/2018 | | | | <0.001 | |
| 3/29/2018 | <0.001 | <0.001 | <0.001 | | <0.001 |
| 8/6/2018 | | | | <0.001 | |
| 2/25/2019 | | | | <0.001 | |
| 2/27/2019 | | | | | <0.001 |
| 3/4/2019 | <0.001 | <0.001 | <0.001 | | |
| 4/3/2019 | <0.001 | <0.001 | <0.001 | | |
| 6/12/2019 | | | | <0.001 | |
| 8/19/2019 | | | | 5.5E-05 (J) | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Thallium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 9/24/2019 | | <0.001 | <0.001 | | |
| 9/25/2019 | <0.001 | | | | |
| 10/8/2019 | | | | <0.001 | |
| 2/12/2020 | <0.001 | <0.001 | <0.001 | | |
| 2/13/2020 | | | | | <0.001 |
| 3/17/2020 | | | | <0.001 | |
| 3/20/2020 | | | | | <0.001 |
| 3/24/2020 | | <0.001 | <0.001 | | |
| 3/25/2020 | <0.001 | | | | |
| 8/26/2020 | | | | <0.001 | |
| 9/22/2020 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 9/24/2020 | | | | | <0.001 |
| 2/8/2021 | | <0.001 | <0.001 | | |
| 2/9/2021 | <0.001 | | | | |
| 2/12/2021 | | | | | <0.001 |
| 3/2/2021 | | | | <0.001 | |
| 8/20/2021 | | | | <0.001 | |
| 2/8/2022 | | | | <0.001 | <0.001 |
| 2/10/2022 | | <0.001 | <0.001 | | |
| 2/11/2022 | <0.001 | | | | |
| 8/30/2022 | | <0.001 | <0.001 | <0.001 | |
| 8/31/2022 | <0.001 | | | | |
| 9/1/2022 | | | | | <0.001 |
| 2/7/2023 | | <0.001 | | <0.001 | |
| 2/8/2023 | | | | | 0.00021 (J) |
| 2/9/2023 | <0.001 | | <0.001 | | |
| 8/2/2023 | | | | | <0.001 |
| 8/15/2023 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 2/20/2024 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 2/22/2024 | | | | | <0.001 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Total Dissolved Solids (mg/L)  Analysis Run 5/2/2024 9:49 AM

Plant Yates  Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 6/1/2016 | | 120 | 54 | | | | 150 |
| 6/2/2016 | 46 | | | | 36 | 130 | |
| 7/25/2016 | | | 48 | | 50 | | 135 |
| 7/26/2016 | 54 | 94 | | | | 141 | |
| 9/13/2016 | | 105 | 67 | | | | |
| 9/14/2016 | | | | 152 | | | 127 |
| 9/15/2016 | 54 | | | | | 153 | |
| 9/19/2016 | | | | | 35 | | |
| 11/1/2016 | | 44 | | | <25 | 92 | 75 |
| 11/2/2016 | 71 | | | | | | |
| 11/4/2016 | | | 60 | 148 | | | |
| 12/15/2016 | | | | 191 | | | |
| 1/10/2017 | 45 | | | | | | |
| 1/11/2017 | | 107 | | | | 159 | 148 |
| 1/16/2017 | | | 65 | 180 | 47 | | |
| 2/21/2017 | | | | | <25 | | |
| 3/1/2017 | | | | | | | 182 |
| 3/2/2017 | | 98 | 61 | | | 117 | |
| 3/3/2017 | | | | 156 | | | |
| 3/8/2017 | 178 | | | | | | |
| 4/26/2017 | 52 | | | | 55 | 181 | 92 |
| 4/27/2017 | | 116 | 31 | | | | |
| 4/28/2017 | | | | 130 | | | |
| 5/26/2017 | | | | 223 | | | |
| 6/27/2017 | | 89 | 42 | | | | |
| 6/28/2017 | | | | 166 | | 169 | 126 |
| 6/30/2017 | 45 | | | | 42 | | |
| 10/3/2017 | | 119 | 58 | 153 | | | |
| 10/4/2017 | | | | | 31 | 141 | 147 |
| 10/5/2017 | 40 | | | | | | |
| 6/5/2018 | | 127 | | | | | |
| 6/6/2018 | | | 96 | | | | |
| 6/7/2018 | | | | 146 | | 95 | |
| 6/8/2018 | 114 | | | | | | 158 |
| 6/11/2018 | | | | | 59 | | |
| 10/1/2018 | 50 | 117 | 60 | 155 | | 165 | 138 |
| 10/2/2018 | | | | | 57 | | |
| 3/28/2019 | | 87 | 87 | | | | |
| 3/29/2019 | 63 | | | 150 | | | |
| 4/1/2019 | | | | | 54 | 149 | 19 (J) |
| 9/24/2019 | | 124 | 54 | 146 | | | |
| 9/25/2019 | 64 | | | | 51 | 157 | 159 |
| 3/18/2020 | 57 | | 35 | | | | |
| 3/19/2020 | | 116 | | 148 | 47 | 146 | 148 |
| 9/23/2020 | | 108 | 15 | 161 | | 157 | 155 |
| 9/24/2020 | | | | | 51 | | |
| 9/25/2020 | 54 | | | | | | |
| 3/1/2021 | | | | | 23 | | |
| 3/2/2021 | 67 | | | | | | |
| 3/3/2021 | | 99 | 39 | 138 | | 137 | 111 |
| 8/19/2021 | 54 | 105 | 44 | | 50 | 144 | |
| 8/27/2021 | | | | 150 | | | 155 |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:50 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-14S (bg) | YGWA-1D (bg) | YGWA-1I (bg) | YGWA-2I (bg) | YGWA-30I (bg) | YGWA-3D (bg) | YGWA-3I (bg) |
|---|---|---|---|---|---|---|---|
| 2/9/2022 | | 105 | 57 | 156 | | 154 | 145 |
| 2/10/2022 | 56 | | | | | | |
| 2/11/2022 | | | | | 66 | | |
| 8/30/2022 | | 116 | | 153 | | | |
| 8/31/2022 | 51 | | 46 | | 33 | 141 | 137 |
| 2/7/2023 | | 131 | 121 | 159 | | | |
| 2/8/2023 | 56 | | | | 43 | 144 | 145 |
| 8/15/2023 | 69 | 121 | 65 | 157 | | 231 | |
| 8/16/2023 | | | | | 48 | | 148 |
| 2/20/2024 | | 130 (D6) | 59 | 159 | 55 | 294 | 220 |
| 2/23/2024 | 64 | | | | | | |

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:50 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | 220 | 200 | 190 | 210 | | | |
| 6/9/2016 | | | | | 240 | 210 | |
| 8/1/2016 | 211 | 191 | 191 | 209 | | | |
| 8/2/2016 | | | | | 226 | 202 | |
| 8/30/2016 | | | | | | | 319 |
| 9/20/2016 | 217 | 213 | 205 | 224 | | | |
| 9/21/2016 | | | | | 214 | 216 | |
| 11/7/2016 | 301 | 284 | 264 | 291 | | 399 | |
| 11/8/2016 | | | | | 229 | | |
| 11/14/2016 | | | | | | | 280 |
| 1/18/2017 | 265 (D) | 158 (D) | 167 (D) | | 243 (D) | 215 (D) | |
| 1/19/2017 | | | | 215 (D) | | | |
| 2/21/2017 | 158 | 137 | | | | 198 | |
| 2/22/2017 | | | | 262 | 310 | | |
| 2/23/2017 | | | 253 | | | | |
| 2/24/2017 | | | | | | | 162 |
| 5/3/2017 | | 269 | | | | | |
| 5/5/2017 | | | | | 289 | 347 | |
| 5/8/2017 | 207 | | 174 | 187 | | | 194 |
| 6/30/2017 | | | 193 | 209 | | | |
| 7/5/2017 | | | | | 217 | | |
| 7/7/2017 | | | | | | 236 | |
| 7/10/2017 | 219 | 183 | | | | | |
| 7/11/2017 | | | | | | | 193 |
| 10/5/2017 | | | | | 221 | | |
| 10/6/2017 | | | | 183 | | | |
| 10/9/2017 | | | 185 | | | 204 | |
| 10/10/2017 | 194 | 179 | | | | | 175 |
| 4/2/2018 | | | | | | | 192 |
| 6/12/2018 | | | | 208 | 234 | 243 | |
| 6/13/2018 | 228 | 196 | 219 | | | | |
| 9/19/2018 | | | | | | | 186 |
| 10/2/2018 | 227 | 191 | 227 | 206 | | | |
| 10/3/2018 | | | | | 232 | 237 | |
| 3/27/2019 | | | | | | | 170 |
| 4/1/2019 | | | 198 | 221 | 238 | | |
| 4/2/2019 | 223 | 224 | | | | <25 | |
| 9/25/2019 | 225 | 190 | | | | | |
| 9/26/2019 | | | 198 | 225 | 241 | 239 | |
| 10/8/2019 | | | | | | | 172 |
| 3/17/2020 | | | | | | | 165 |
| 3/19/2020 | | 194 | | | 212 | 202 | |
| 3/20/2020 | 211 | | 195 | 182 | | | |
| 9/22/2020 | | | | | | | 141 |
| 9/24/2020 | 212 | 171 | 186 | 185 | 209 | 226 | |
| 3/1/2021 | | | | | | | 145 |
| 3/2/2021 | | 154 | | | | | |
| 3/3/2021 | 205 | | 173 | 178 | 184 | 217 | |
| 8/19/2021 | | 176 | | | | | 134 |
| 8/20/2021 | 224 | | 196 | 169 | 194 | 192 | |
| 2/8/2022 | | | | 159 | 206 | 216 | 151 |
| 2/10/2022 | 207 | 168 | 190 | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:50 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWA-47 (bg) |
|---|---|---|---|---|---|---|---|
| 8/31/2022 | 228 | 206 | | | | | 116 |
| 9/1/2022 | | | 193 | 124 | 186 | 225 | |
| 2/8/2023 | | | | | | | 141 |
| 2/9/2023 | 366 | 196 | 189 | 116 | 184 | 226 | |
| 8/15/2023 | | | | | | | 186 |
| 8/16/2023 | | | | | 171 | 233 | |
| 8/17/2023 | 248 | 207 | 186 | 137 | | | |
| 2/20/2024 | | | | | | | 159 |
| 2/21/2024 | | | 194 | 149 | 213 | 235 | |
| 2/22/2024 | 215 | 188 | | | | | |

# Time Series

Constituent: Total Dissolved Solids (mg/L)  Analysis Run 5/2/2024 9:50 AM

Plant Yates  Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (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 | | | | | |
| 10/11/2017 | | | | | | 68 | |
| 10/12/2017 | | | | | | | 74 |
| 11/20/2017 | | | | | | 139 | 179 |
| 1/10/2018 | | | | | | | 140 |
| 1/11/2018 | | | | | | 153 | |
| 2/19/2018 | | | | | | | 119 |
| 2/20/2018 | | | | | | 87 | |
| 4/3/2018 | | | | | | 85 | 106 |
| 6/5/2018 | | | | | 109 | | |
| 6/6/2018 | | | | 79 | | | |
| 6/7/2018 | | 68 | | | | | |
| 6/11/2018 | 70 | | 74 | | | | |
| 6/28/2018 | | | | | | 88 | 112 |
| 8/7/2018 | | | | | | 89 | 103 |
| 9/24/2018 | | | | | | 82 | 107 |
| 9/25/2018 | 86 | 109 | 63 | 73 | 122 | | |
| 3/26/2019 | | | | | | | 90 |
| 3/27/2019 | | | | | | 75 | |
| 4/2/2019 | 72 | | | | 134 | | |
| 4/3/2019 | | 89 | 63 | 57 | | | |
| 9/24/2019 | | | | | 157 | | |
| 9/25/2019 | 81 | | | 75 | | | |
| 9/26/2019 | | 126 | 72 | | | | |
| 10/9/2019 | | | | | | 119 | 98 |
| 3/24/2020 | 71 | 91 | 59 | 76 | 117 | | 84 |
| 3/25/2020 | | | | | | 158 | |
| 9/23/2020 | 99 | 103 | 81 | | | | |
| 9/24/2020 | | | | 69 | 113 | 170 | 77 |
| 3/3/2021 | 57 | 95 | 37 | 53 | | | |
| 3/4/2021 | | | | | 110 | 168 | 57 |
| 8/26/2021 | | | 31 | | | 249 | |
| 8/27/2021 | 93 | 112 | | 67 | | | |

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:50 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-17S (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-20S (bg) | YGWA-21I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|
| 9/1/2021 | | | | | 137 | | |
| 9/3/2021 | | | | | | | 88 |
| 2/8/2022 | | | | | | 248 | 93 |
| 2/9/2022 | 81 | 103 | 60 | 72 | 131 | | |
| 8/30/2022 | 81 | 100 | 52 | | 122 | | |
| 8/31/2022 | | | | 62 | | 242 | 92 |
| 2/7/2023 | 78 | 96 | 55 | 89 | 163 | 224 | |
| 2/8/2023 | | | | | | | 115 |
| 8/15/2023 | 74 | 96 | 81 | 62 | 126 | 225 | 83 |
| 2/20/2024 | 77 | 129 | | 164 | 156 | 233 | 109 |
| 2/23/2024 | | | 52 | | | | |

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:50 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 6/2/2016 | 96 | 160 | 66 | | |
| 6/9/2016 | | | | | 150 |
| 7/26/2016 | 92 | 177 | 78 | | |
| 8/2/2016 | | | | | 155 |
| 8/31/2016 | | | | 209 | |
| 9/14/2016 | 102 | 187 | 73 | | |
| 9/21/2016 | | | | | 138 |
| 11/2/2016 | 115 | 181 | | | |
| 11/4/2016 | | | 75 | | |
| 11/7/2016 | | | | | 291 |
| 11/28/2016 | | | | 102 | |
| 1/12/2017 | | 202 | 86 | | |
| 1/13/2017 | 67 | | | | |
| 1/19/2017 | | | | | 145 (D) |
| 2/22/2017 | | | | 164 | 185 |
| 3/6/2017 | 159 | | | | |
| 3/7/2017 | | 257 | 108 | | |
| 5/1/2017 | 107 | 165 | | | |
| 5/2/2017 | | | 103 | | |
| 5/8/2017 | | | | 145 | 114 |
| 6/27/2017 | | 189 | 73 | | |
| 6/29/2017 | 79 | | | | |
| 7/5/2017 | | | | | 136 |
| 7/17/2017 | | | | 185 | |
| 10/3/2017 | | 170 | 89 | | |
| 10/5/2017 | 95 | | | | 139 |
| 10/16/2017 | | | | 218 | |
| 2/19/2018 | | | | 173 | |
| 6/6/2018 | | 151 | | | |
| 6/7/2018 | 90 | | 142 | | |
| 6/11/2018 | | | | | 156 |
| 8/6/2018 | | | | 158 | |
| 9/26/2018 | 116 | 144 | 86 | | |
| 10/2/2018 | | | | | 154 |
| 2/25/2019 | | | | 92 | |
| 4/1/2019 | | | | | 147 |
| 4/3/2019 | 111 | 142 | 83 | | |
| 6/12/2019 | | | | 226 | |
| 9/24/2019 | | 129 | 79 | | |
| 9/25/2019 | 117 | | | | 162 |
| 10/8/2019 | | | | 276 | |
| 3/17/2020 | | | | 185 | |
| 3/20/2020 | | | | | 137 |
| 3/24/2020 | | 139 | 68 | | |
| 3/25/2020 | 146 | | | | |
| 9/22/2020 | 83 | 104 | 75 | 281 | |
| 9/24/2020 | | | | | 133 |
| 3/2/2021 | | 52 | 67 | 296 | |
| 3/3/2021 | 80 | | | | 110 |
| 8/20/2021 | | | | 254 | 110 |
| 8/26/2021 | 93 | 123 | 86 | | |
| 2/8/2022 | | | | 283 | 120 |

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:50 AM

Plant Yates Data: Yates Ash Pond 2

| | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | GWA-2 (bg) | YGWC-29IB |
|---|---|---|---|---|---|
| 2/10/2022 | | 127 | 77 | | |
| 2/11/2022 | 102 | | | | |
| 8/30/2022 | | 148 | 86 | 244 | |
| 8/31/2022 | 92 | | | | |
| 9/1/2022 | | | | | 128 |
| 2/7/2023 | | 180 | | 207 | |
| 2/8/2023 | | | | | 158 |
| 2/9/2023 | 124 | | 59 | | |
| 8/2/2023 | | | | | 152 |
| 8/15/2023 | 99 | 219 | 76 | 230 | |
| 2/20/2024 | 140 | 639 (o) | 137 | 214 | |
| 2/22/2024 | | | | | 146 |

FIGURE B.

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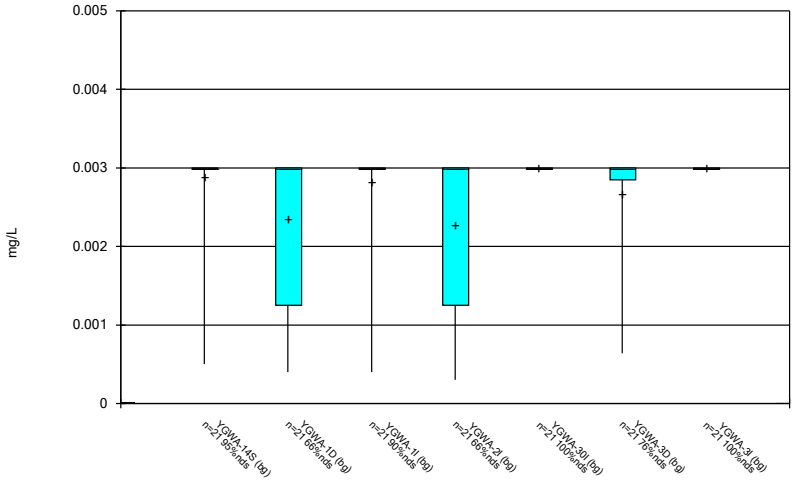
## Box & Whiskers Plot




Constituent: Antimony Analysis Run 5/2/2024 9:50 AM

Plant Yates Data: Yates Ash Pond 2

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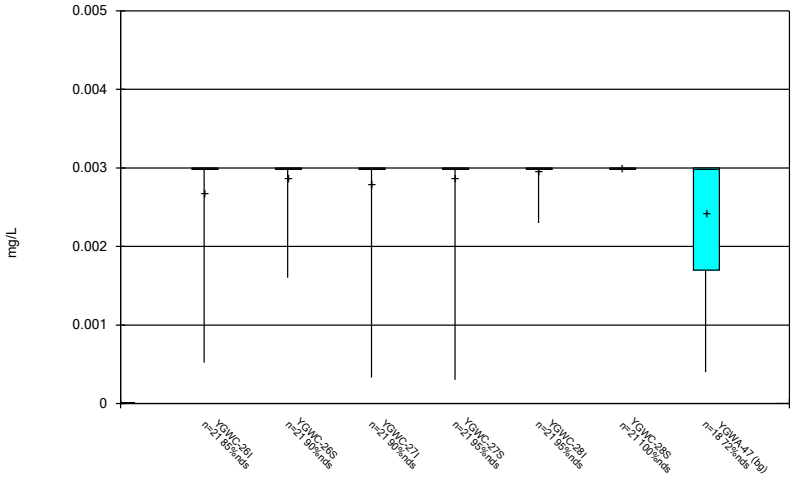
## Box & Whiskers Plot

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Plant Yates Data: Yates Ash Pond 2

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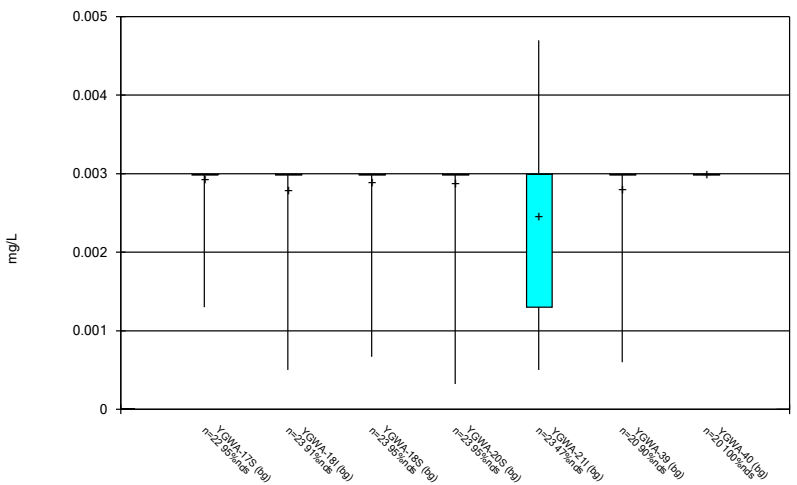
## Box & Whiskers Plot

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Plant Yates Data: Yates Ash Pond 2

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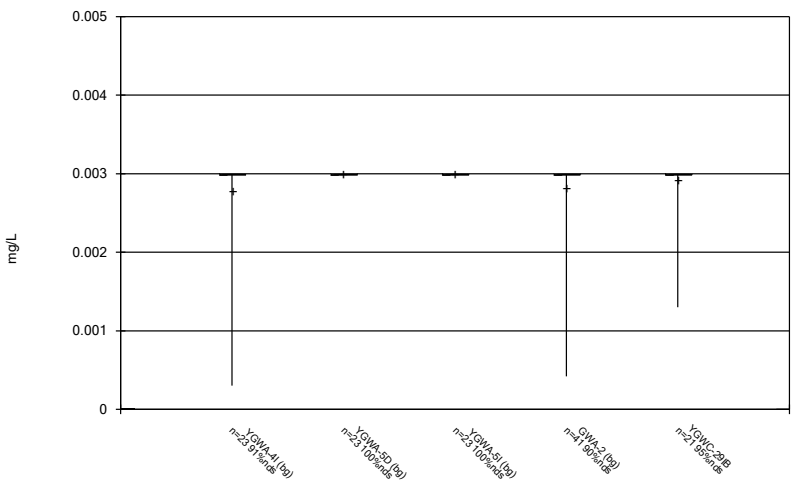
## Box & Whiskers Plot

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Plant Yates Data: Yates Ash Pond 2

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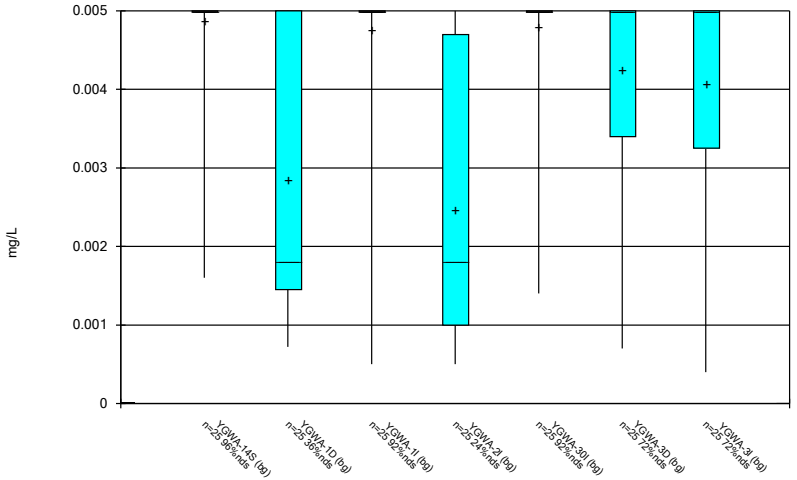
## Box & Whiskers Plot

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Plant Yates Data: Yates Ash Pond 2

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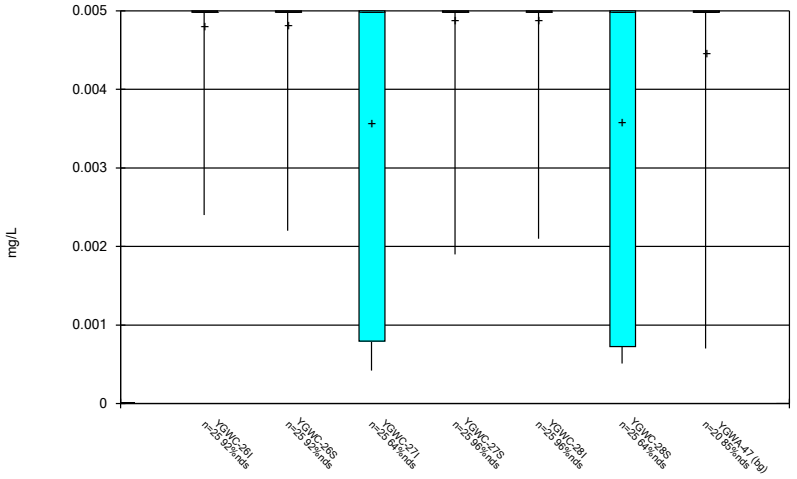
## Box & Whiskers Plot

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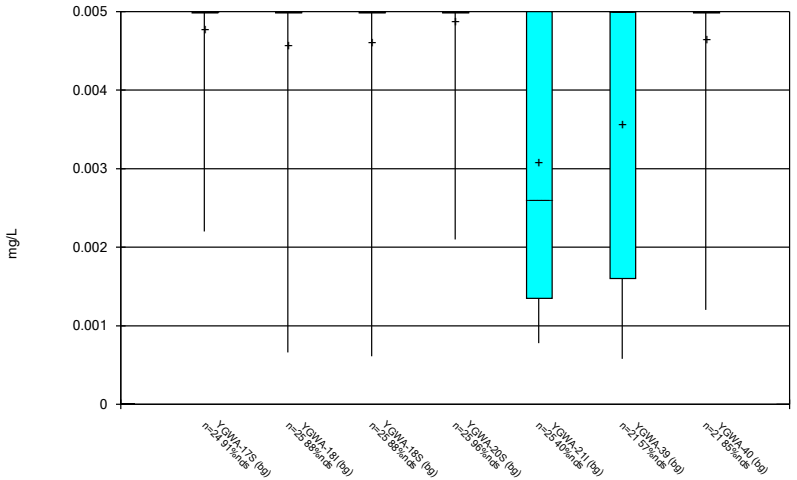
## Box & Whiskers Plot

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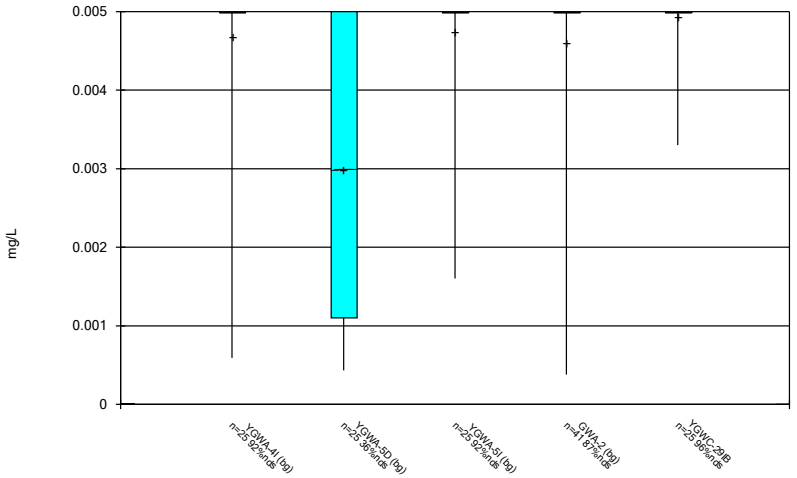
## Box & Whiskers Plot

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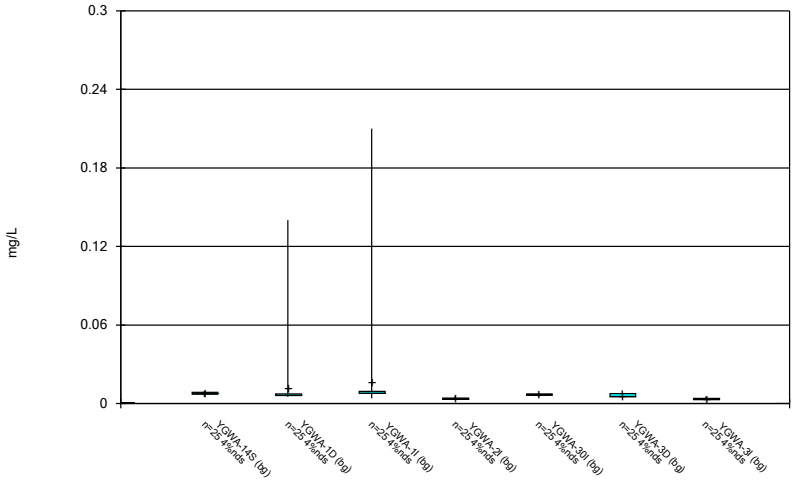
## Box & Whiskers Plot

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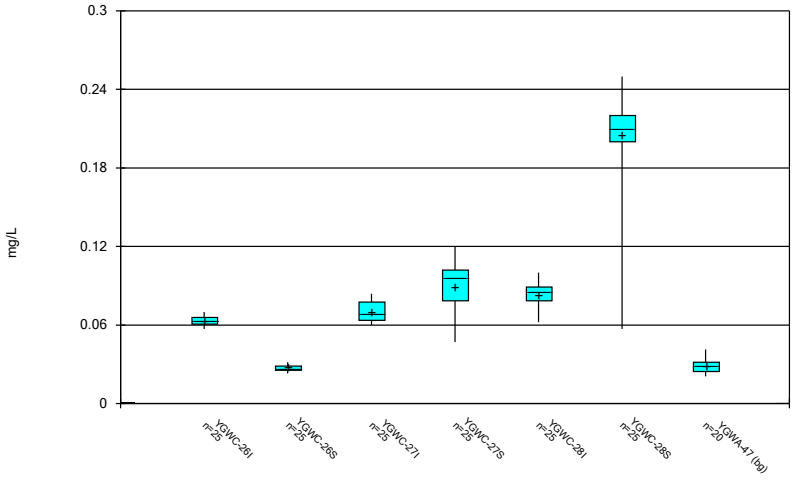
## Box & Whiskers Plot

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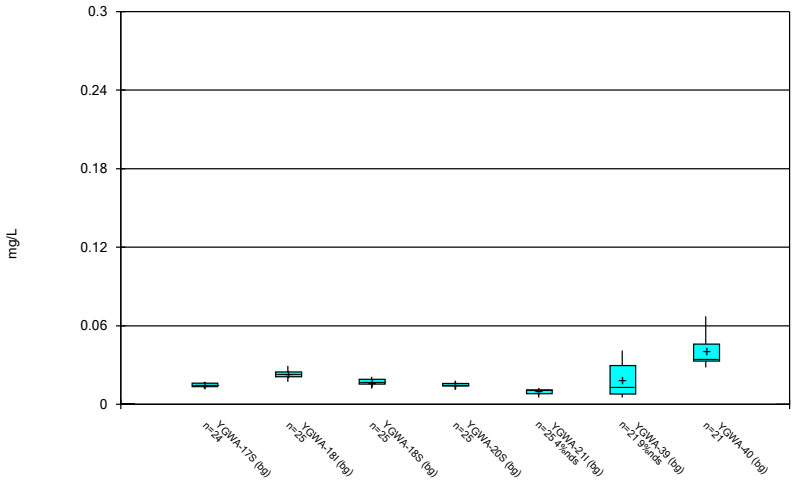
## Box & Whiskers Plot

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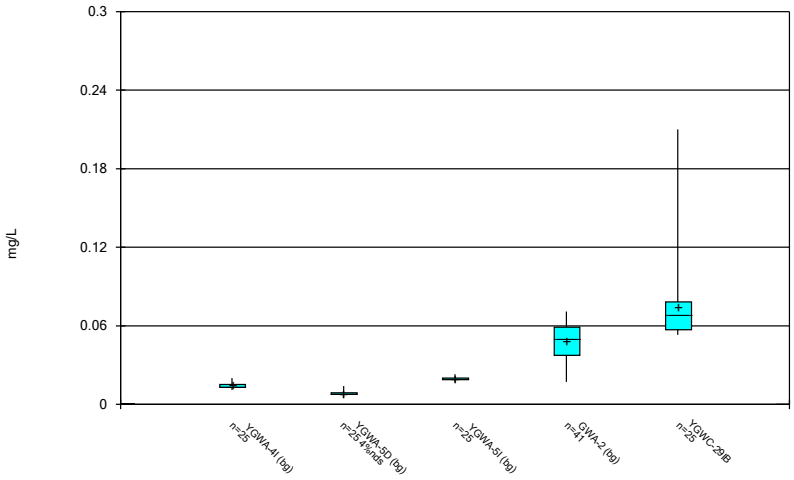
## Box & Whiskers Plot

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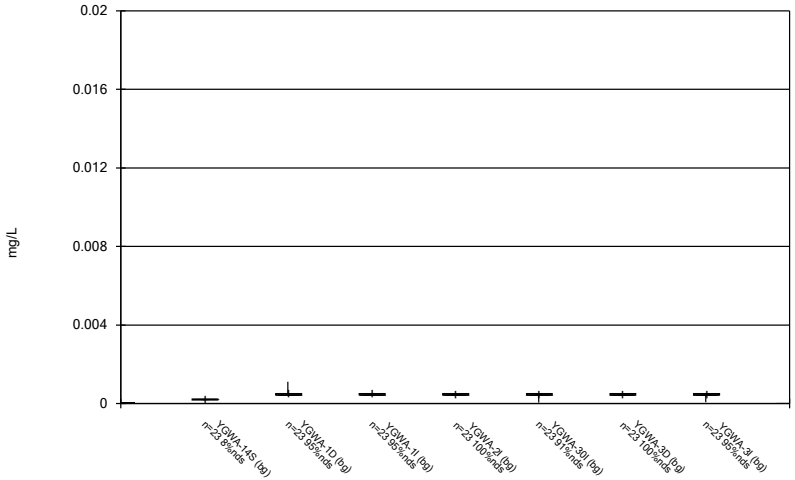
## Box & Whiskers Plot




Constituent: Beryllium Analysis Run 5/2/2024 9:50 AM
Plant Yates Data: Yates Ash Pond 2

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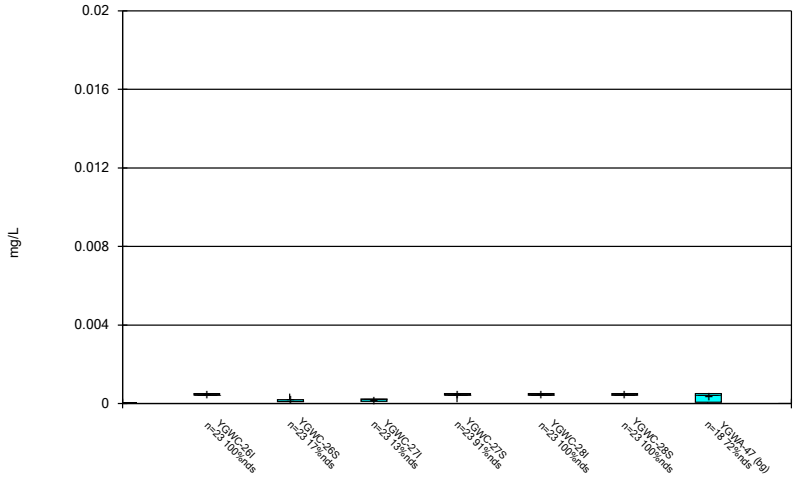
## Box & Whiskers Plot

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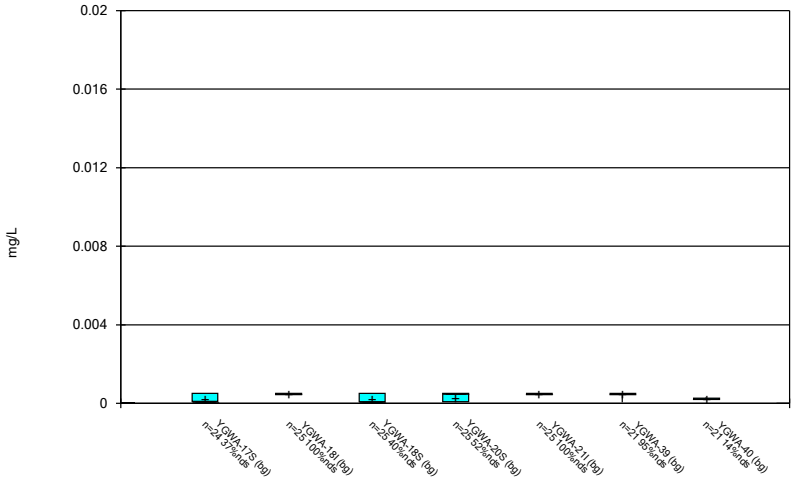
## Box & Whiskers Plot

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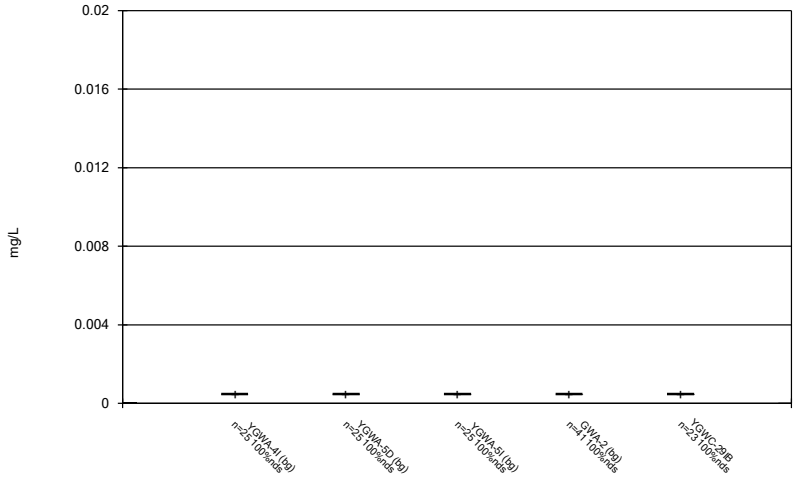
## Box & Whiskers Plot

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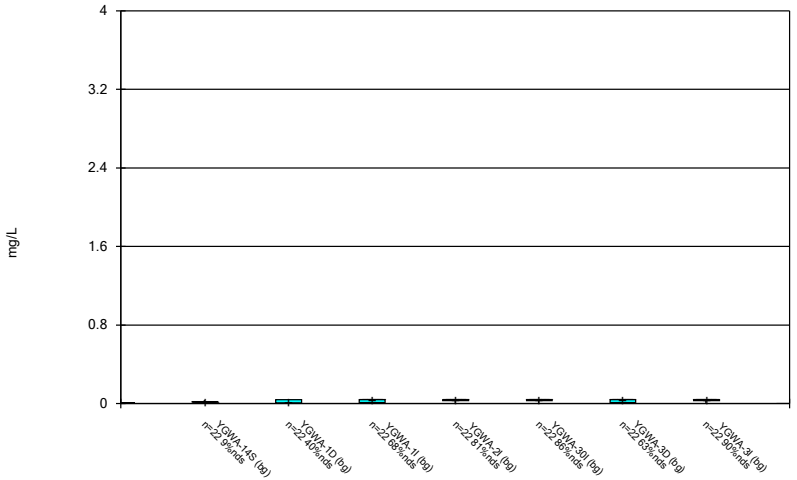
## Box & Whiskers Plot

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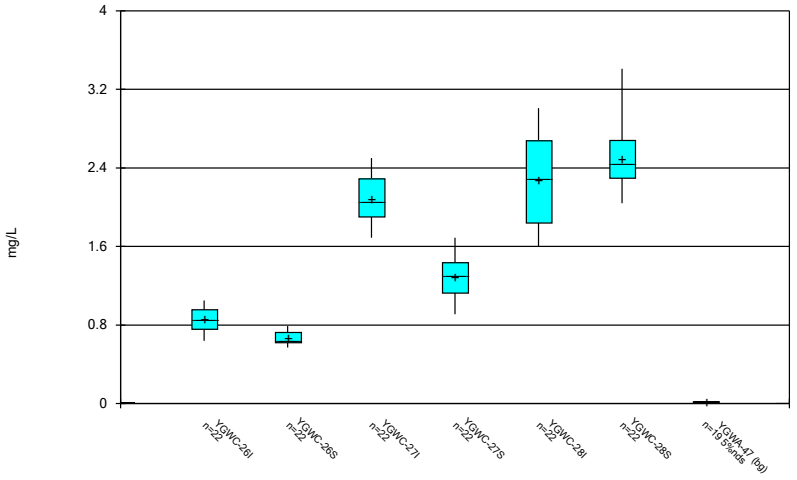
## Box & Whiskers Plot

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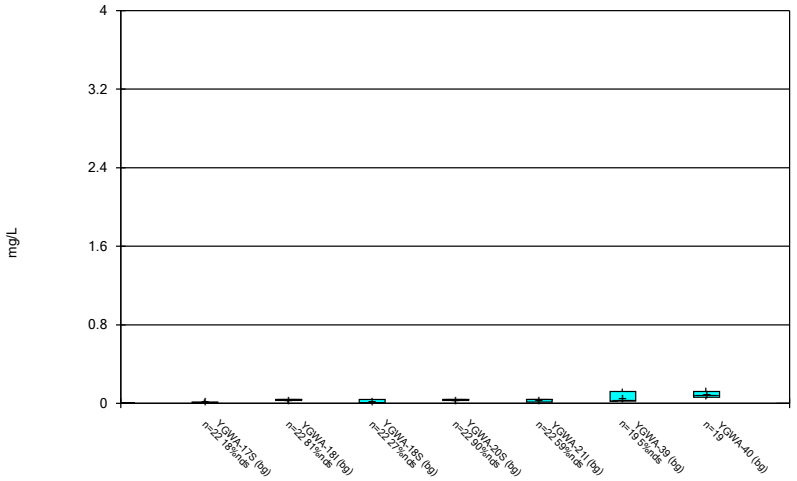
## Box & Whiskers Plot

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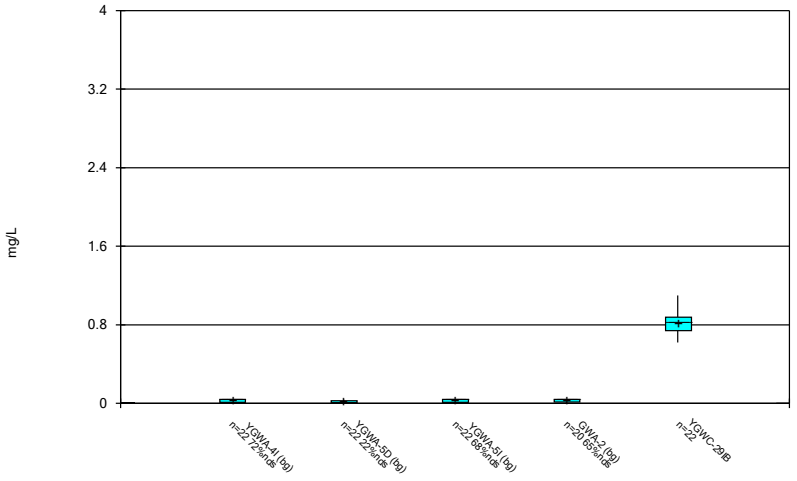
## Box & Whiskers Plot

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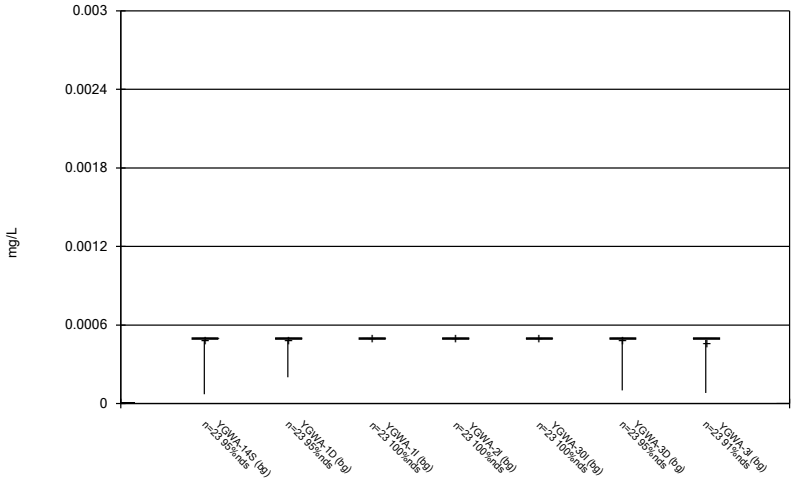
## Box & Whiskers Plot

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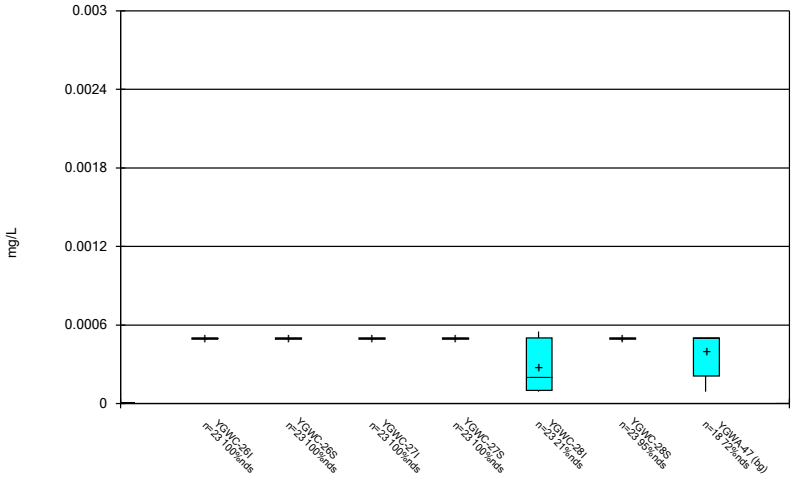
## Box & Whiskers Plot

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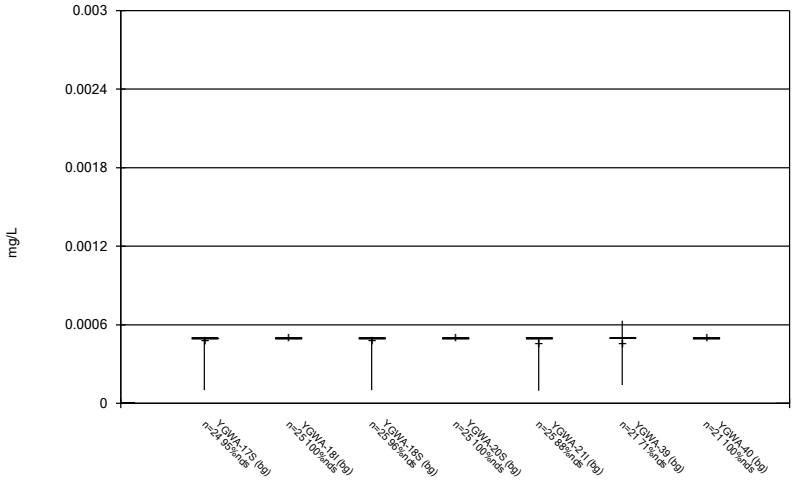
## Box & Whiskers Plot

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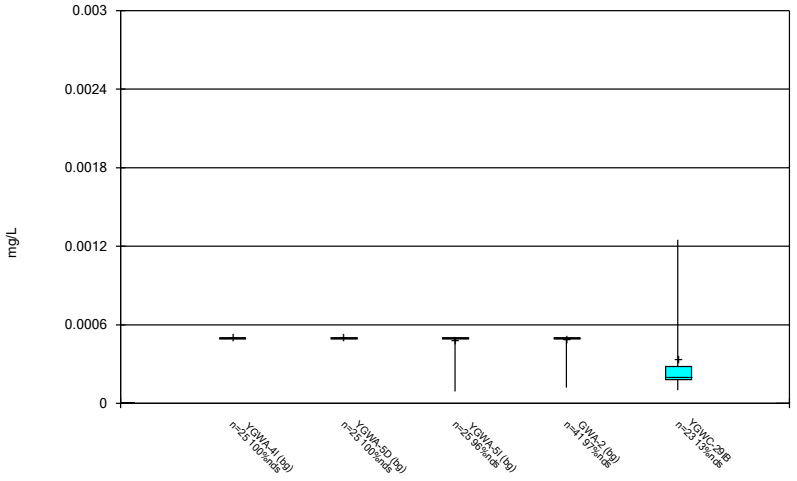
## Box & Whiskers Plot

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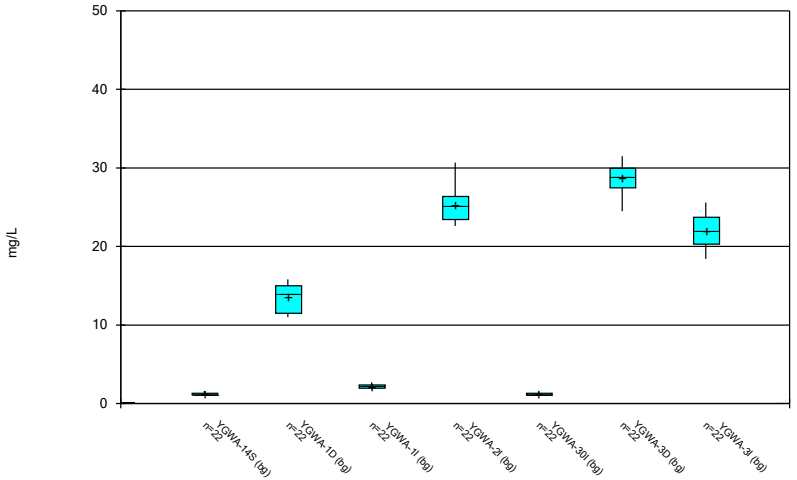
## Box & Whiskers Plot

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Plant Yates Data: Yates Ash Pond 2

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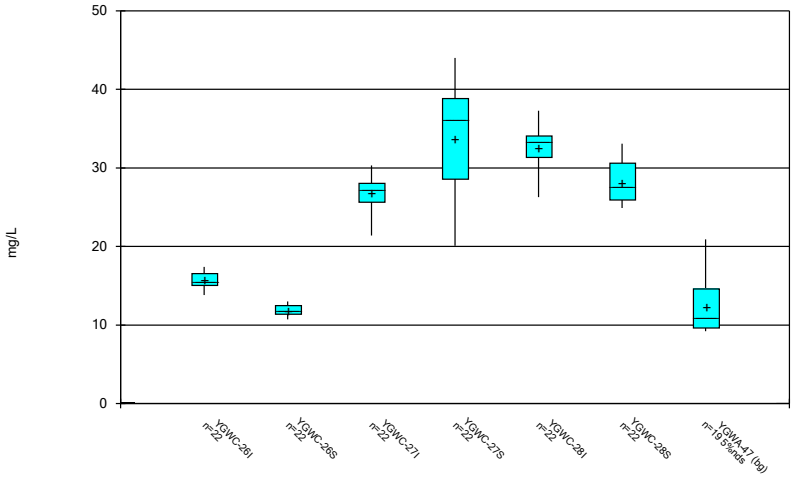
## Box & Whiskers Plot

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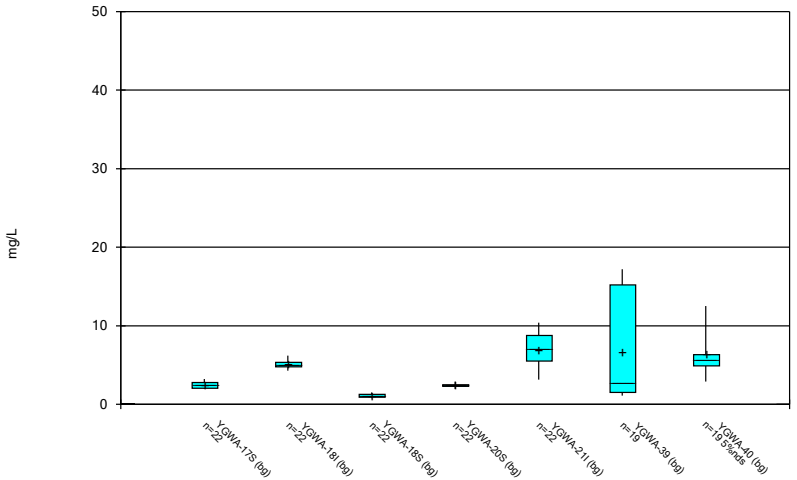
## Box & Whiskers Plot

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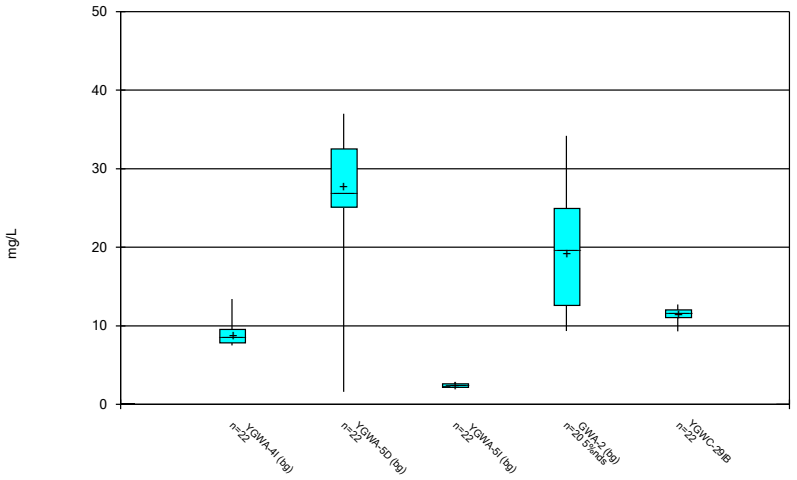
## Box & Whiskers Plot

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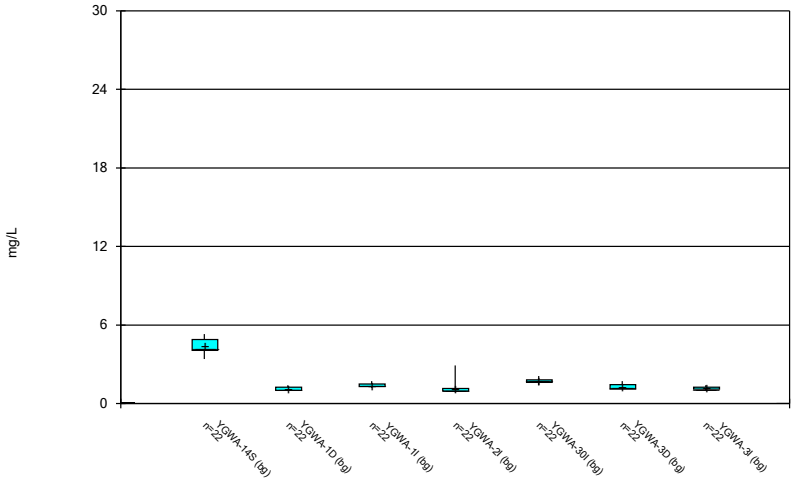
## Box & Whiskers Plot

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Plant Yates Data: Yates Ash Pond 2

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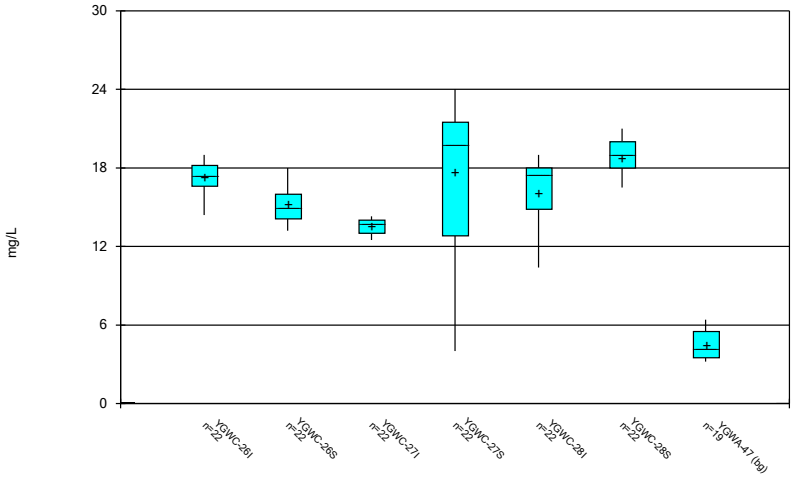
## Box & Whiskers Plot

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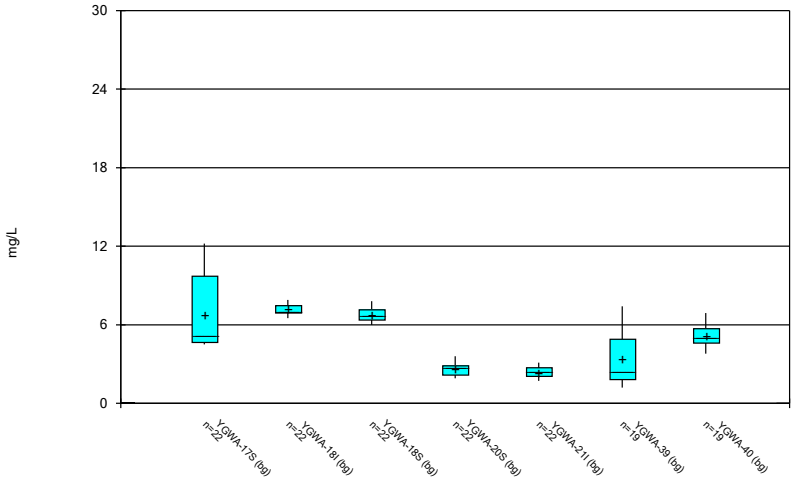
## Box & Whiskers Plot

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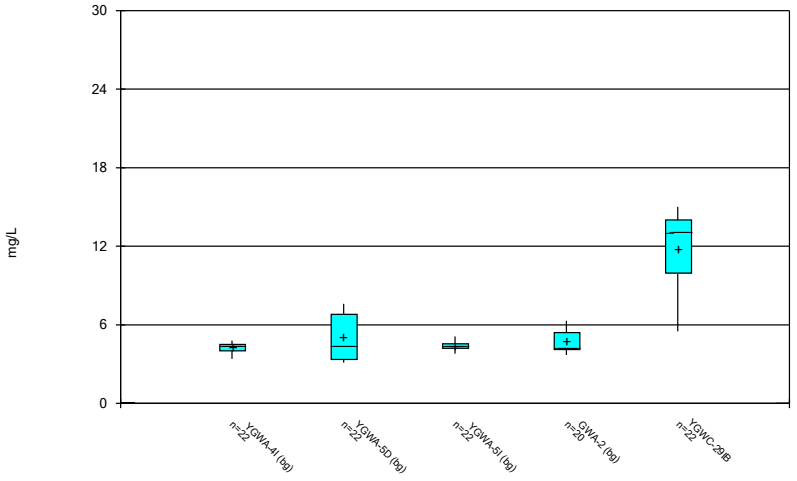
## Box & Whiskers Plot

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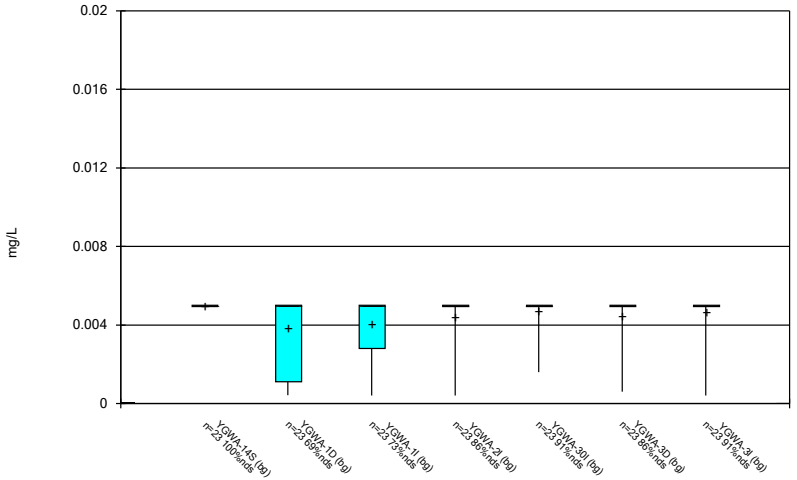
## Box & Whiskers Plot

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Plant Yates Data: Yates Ash Pond 2

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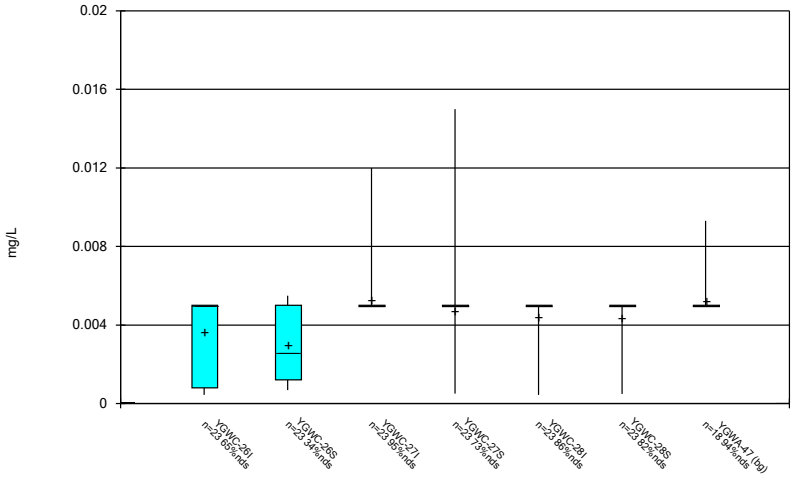
## Box & Whiskers Plot

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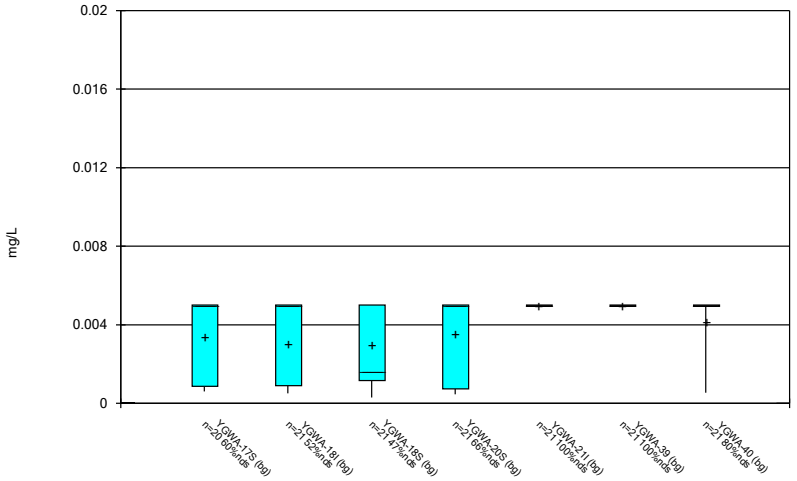
## Box & Whiskers Plot

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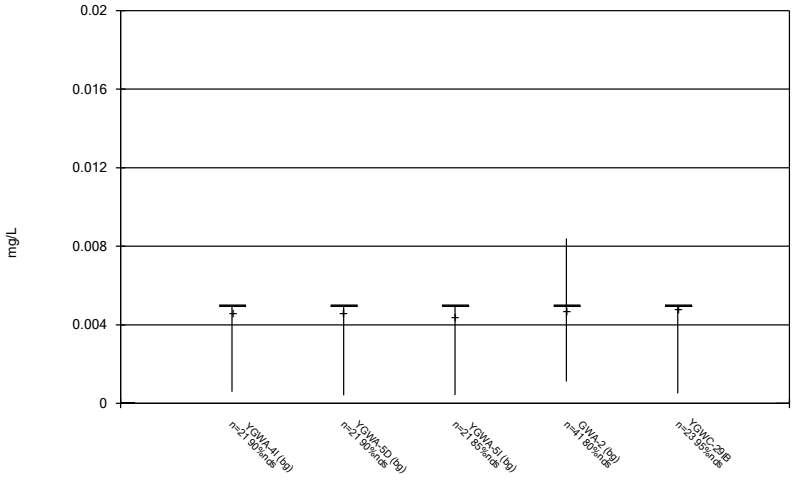
## Box & Whiskers Plot

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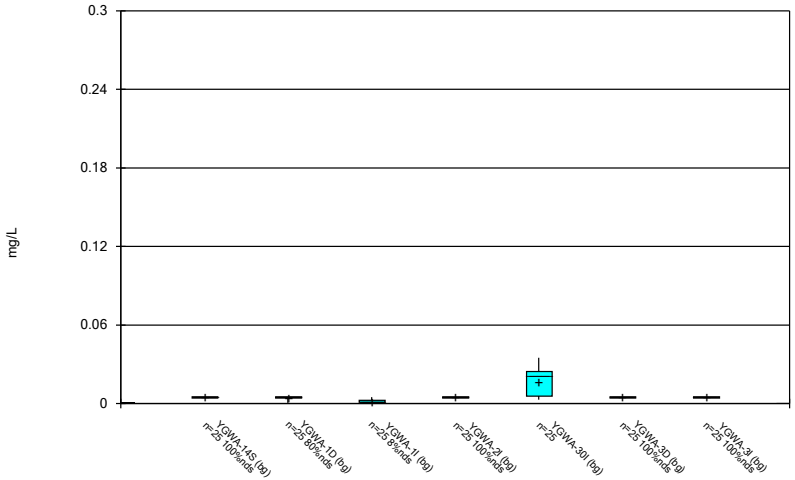
## Box & Whiskers Plot




Constituent: Cobalt Analysis Run 5/2/2024 9:50 AM
Plant Yates Data: Yates Ash Pond 2

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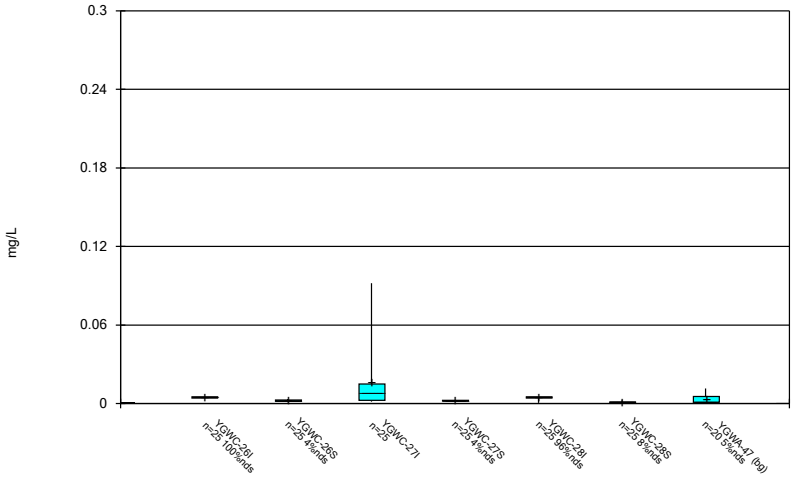
## Box & Whiskers Plot

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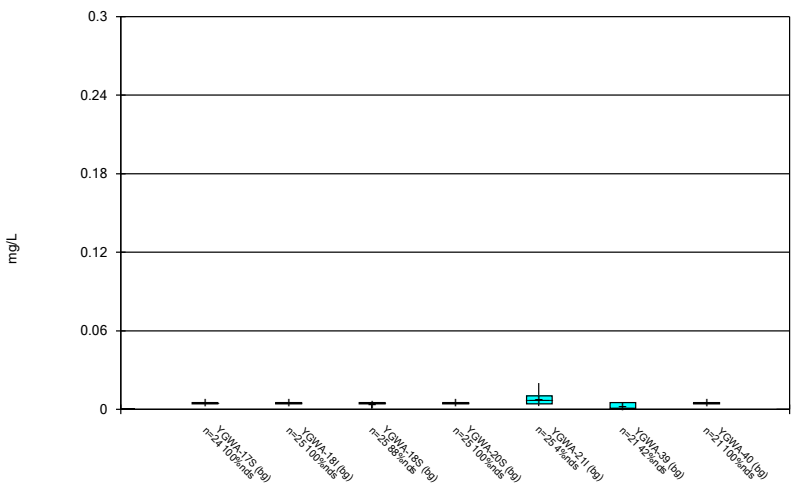
## Box & Whiskers Plot

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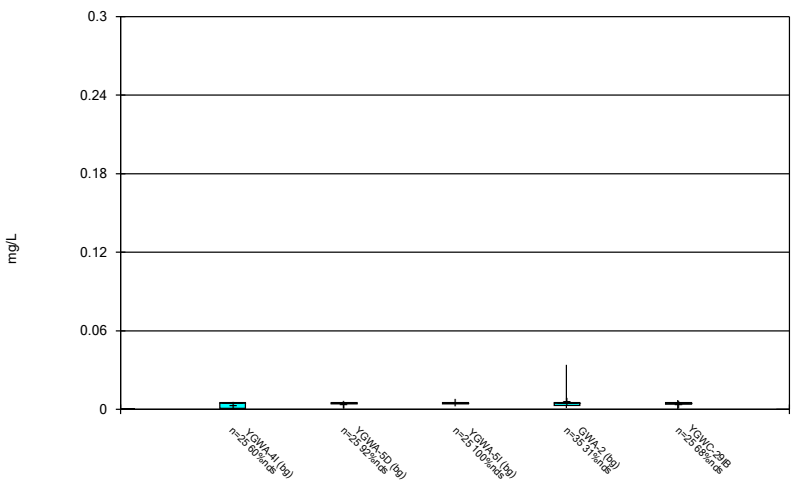
## Box & Whiskers Plot

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Plant Yates Data: Yates Ash Pond 2

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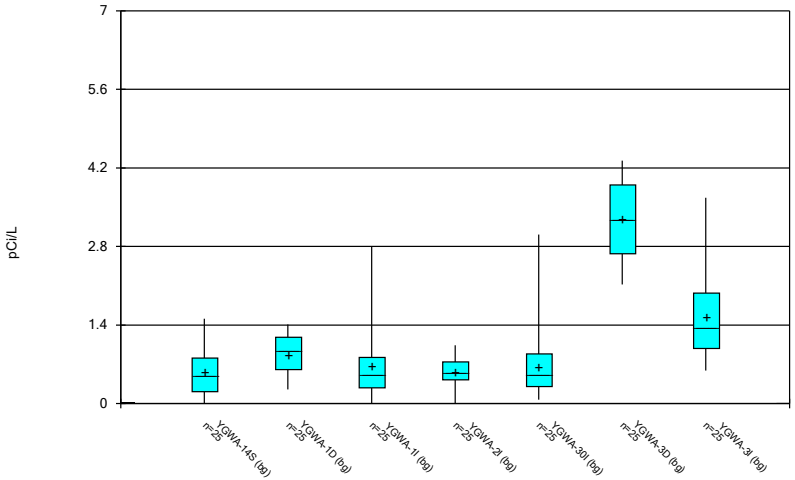
## Box & Whiskers Plot




Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2024 9:50 AM
Plant Yates Data: Yates Ash Pond 2

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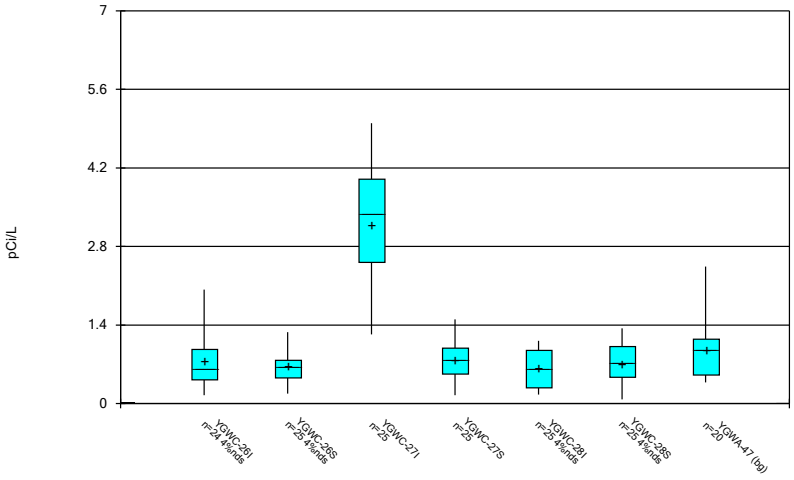
## Box & Whiskers Plot




Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2024 9:50 AM
Plant Yates Data: Yates Ash Pond 2

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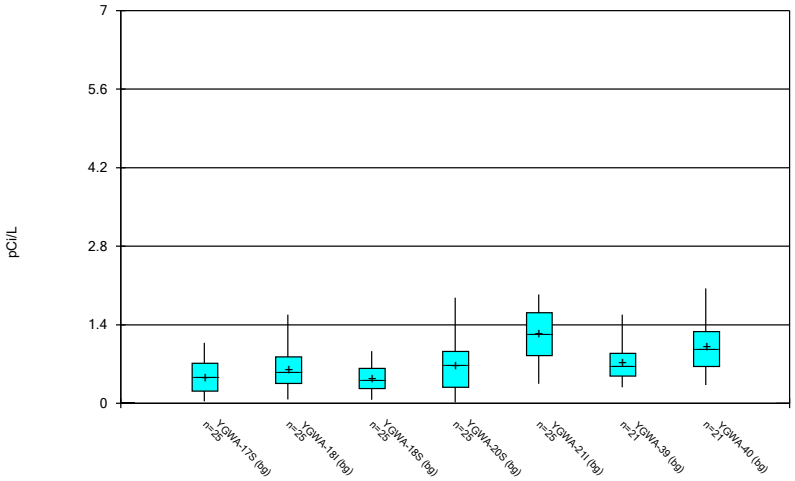
## Box & Whiskers Plot




Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2024 9:50 AM
Plant Yates Data: Yates Ash Pond 2

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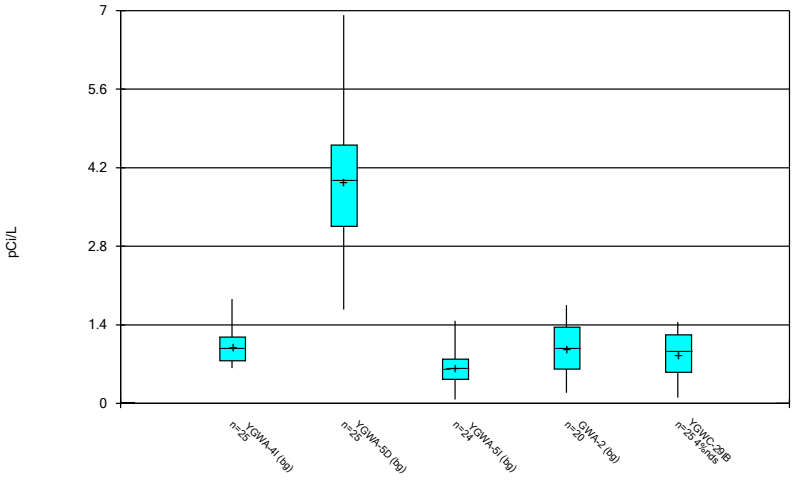
## Box & Whiskers Plot




Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2024 9:50 AM
Plant Yates Data: Yates Ash Pond 2

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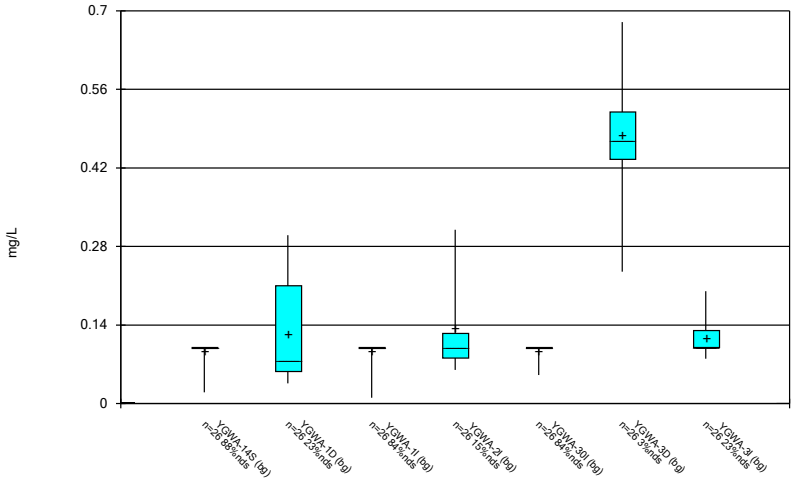
## Box & Whiskers Plot




Constituent: Fluoride Analysis Run 5/2/2024 9:50 AM
Plant Yates Data: Yates Ash Pond 2

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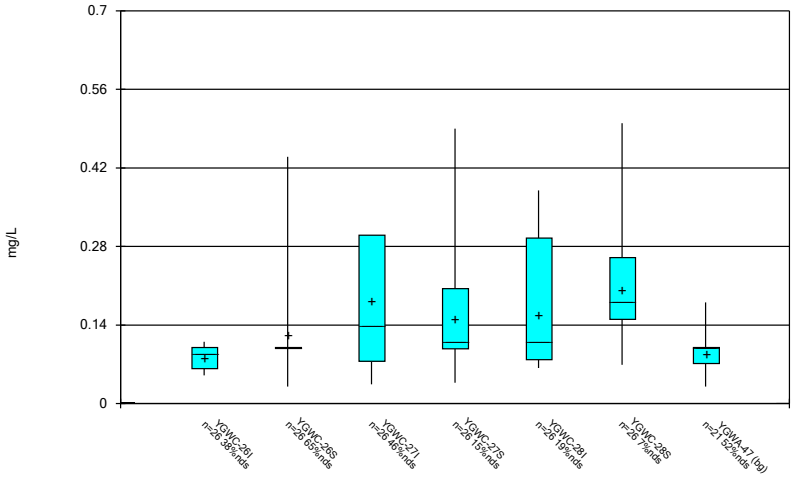
## Box & Whiskers Plot

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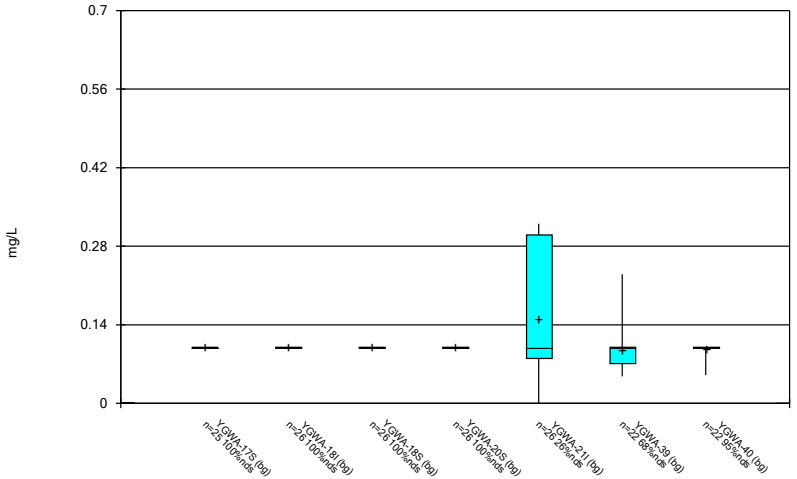
## Box & Whiskers Plot

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Plant Yates Data: Yates Ash Pond 2

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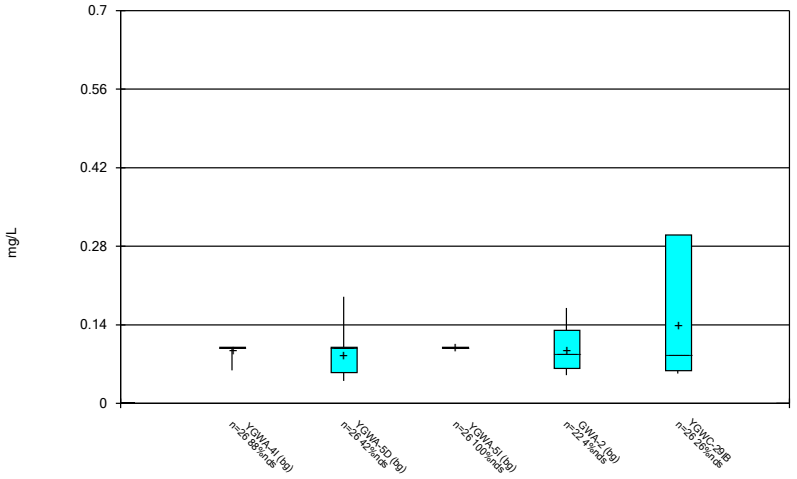
## Box & Whiskers Plot

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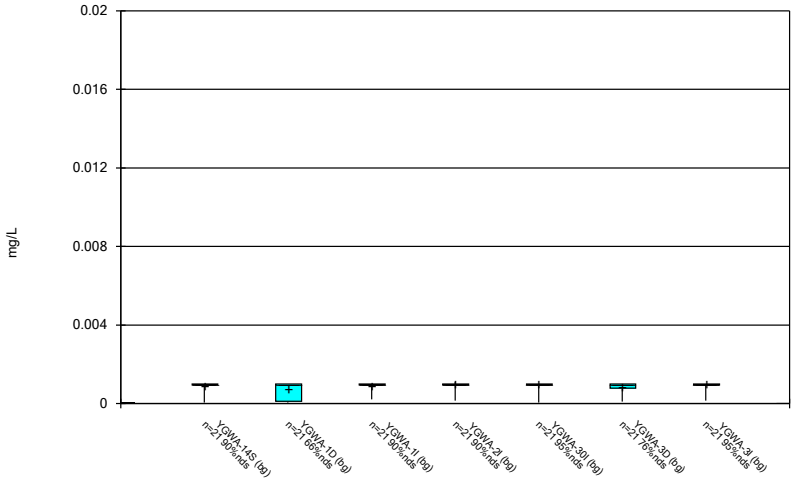
## Box & Whiskers Plot

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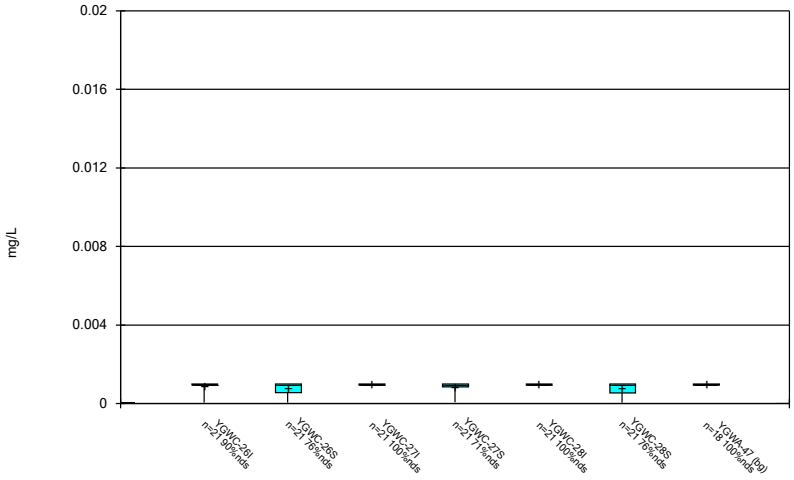
## Box & Whiskers Plot

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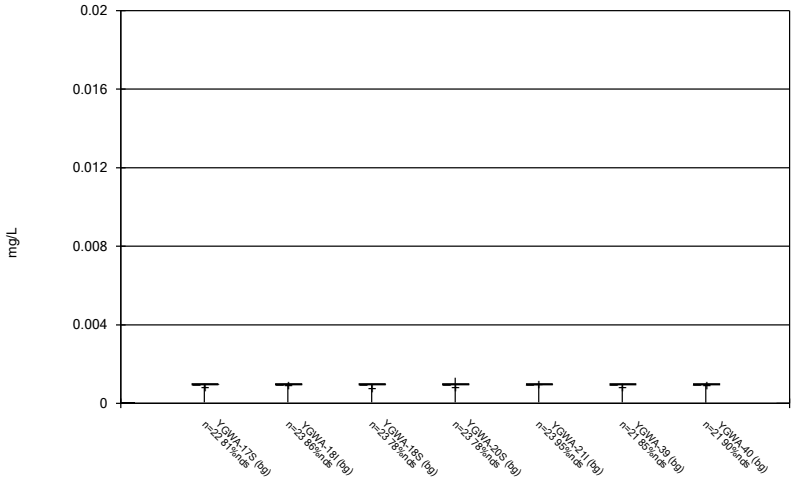
## Box & Whiskers Plot

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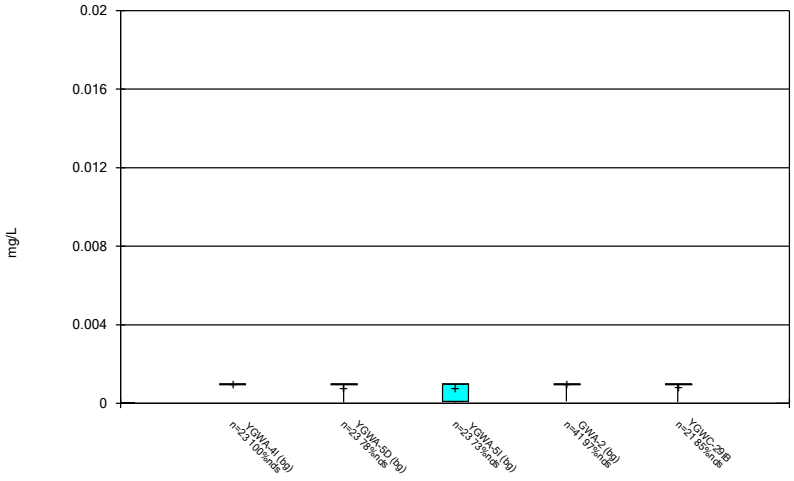
## Box & Whiskers Plot

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Plant Yates Data: Yates Ash Pond 2

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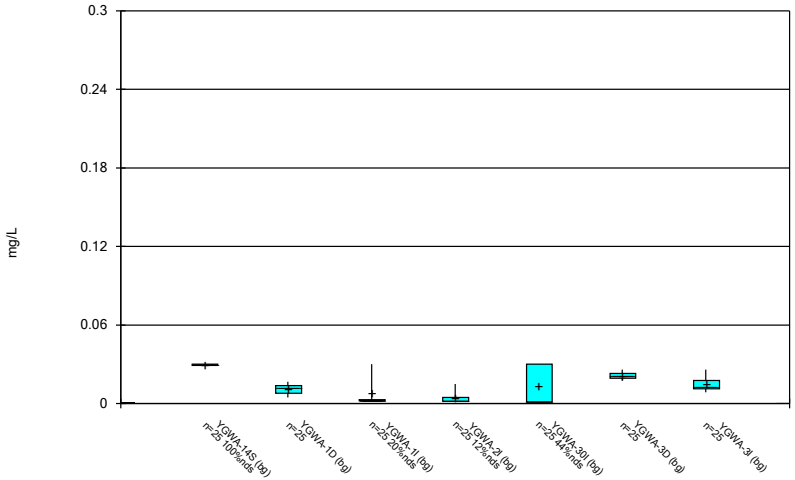
## Box & Whiskers Plot




Constituent: Lithium Analysis Run 5/2/2024 9:51 AM
Plant Yates Data: Yates Ash Pond 2

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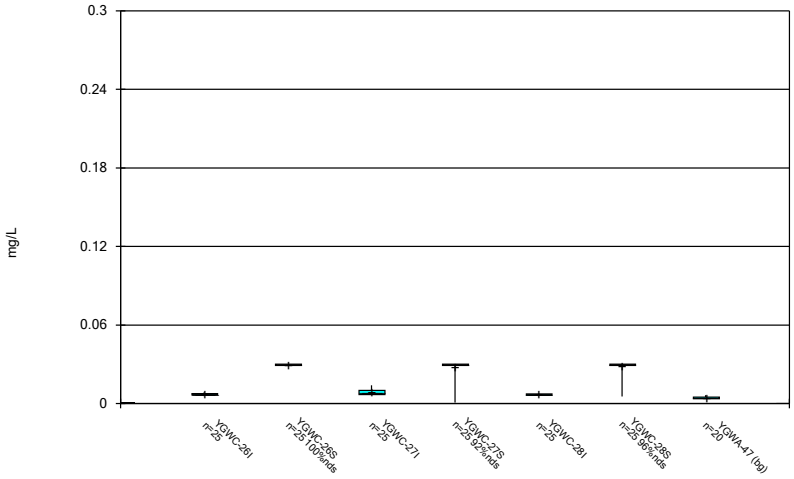
## Box & Whiskers Plot

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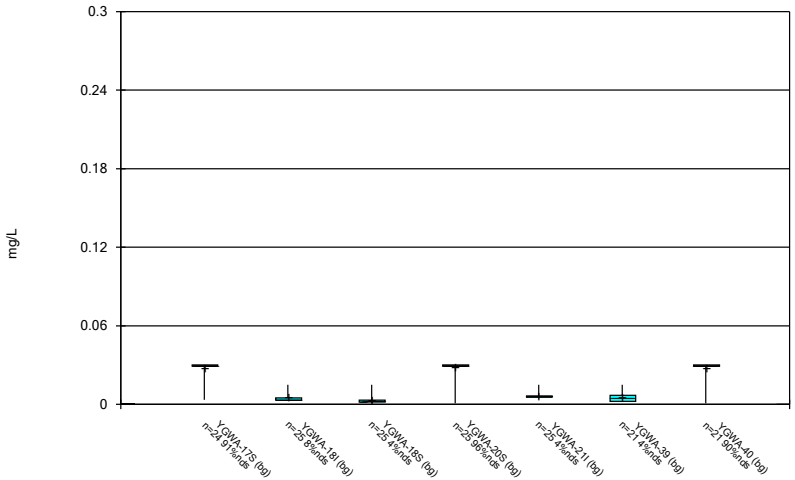
## Box & Whiskers Plot

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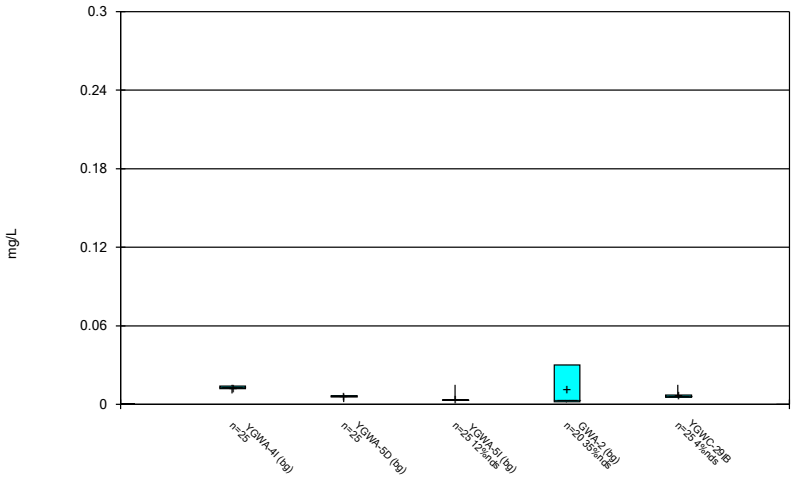
## Box & Whiskers Plot

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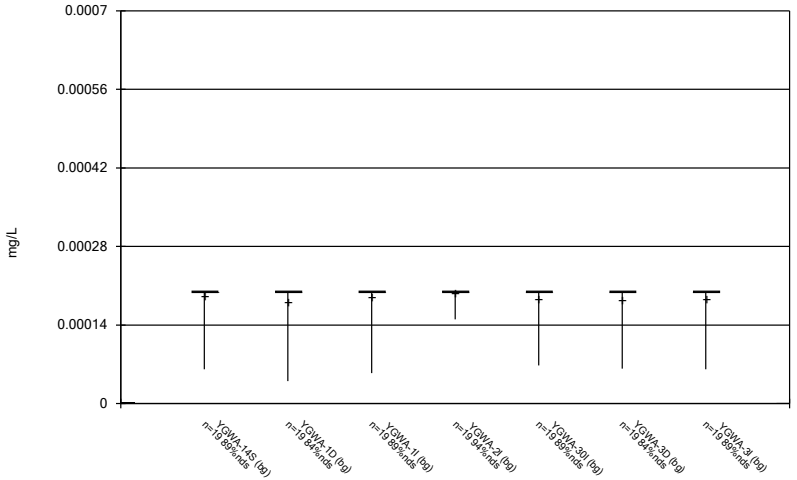
## Box & Whiskers Plot




Constituent: Mercury Analysis Run 5/2/2024 9:51 AM
Plant Yates Data: Yates Ash Pond 2

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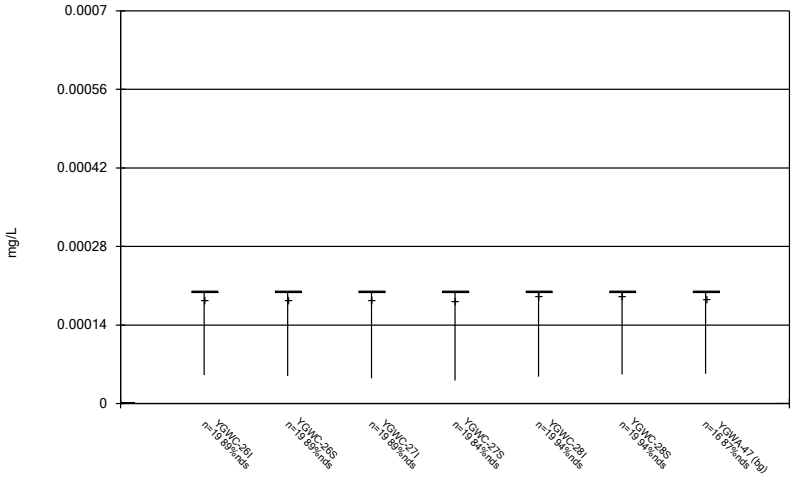
## Box & Whiskers Plot

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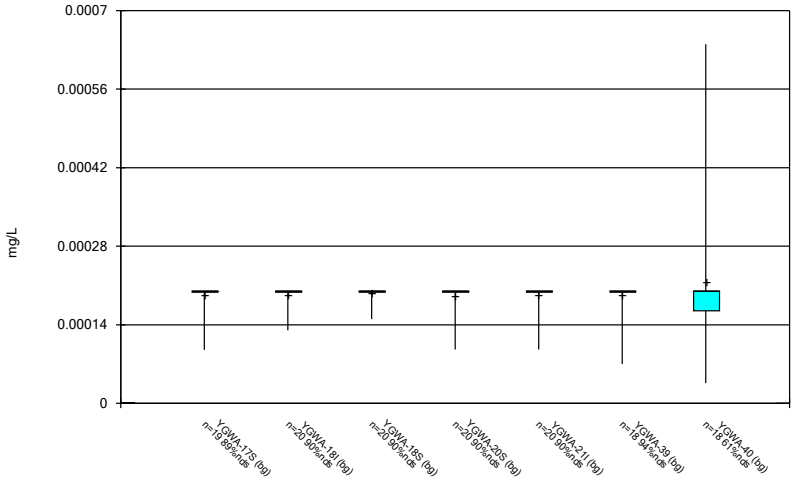
## Box & Whiskers Plot

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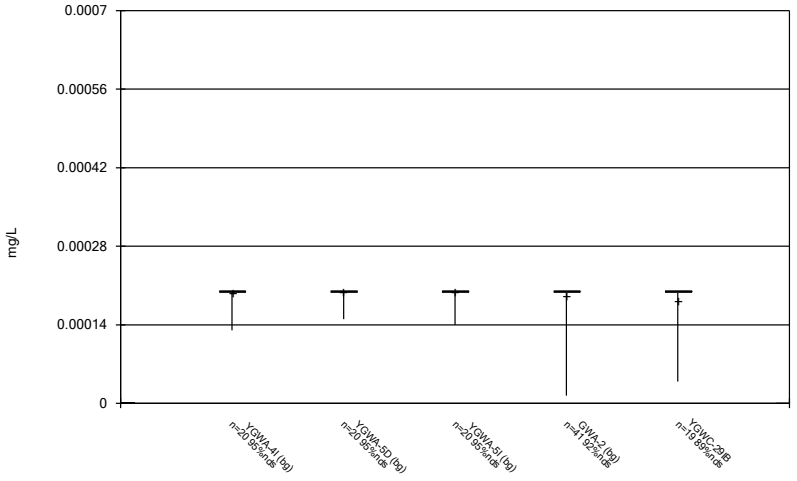
## Box & Whiskers Plot

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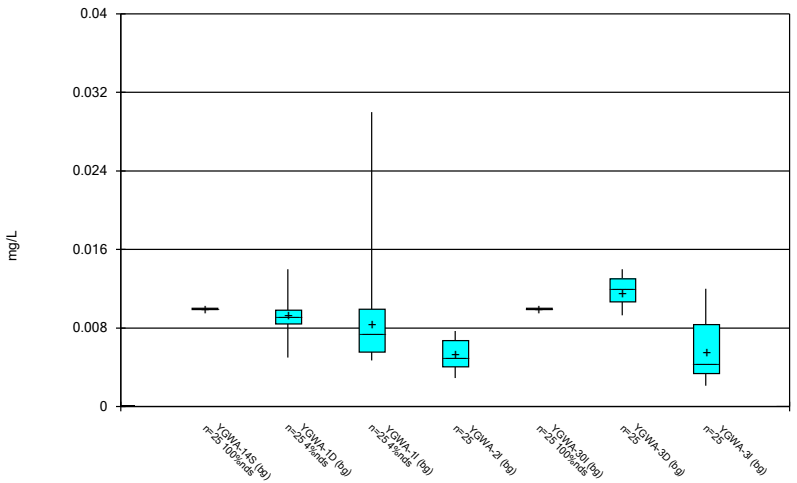
## Box & Whiskers Plot




Constituent: Molybdenum Analysis Run 5/2/2024 9:51 AM

Plant Yates Data: Yates Ash Pond 2

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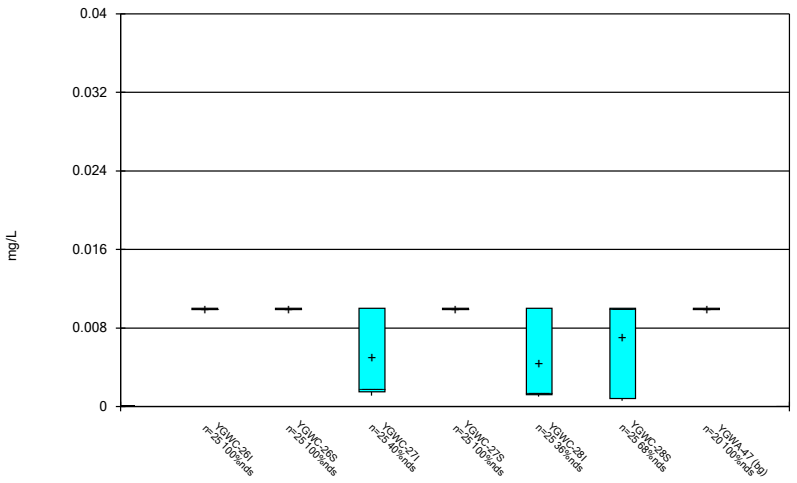
## Box & Whiskers Plot




Constituent: Molybdenum Analysis Run 5/2/2024 9:51 AM

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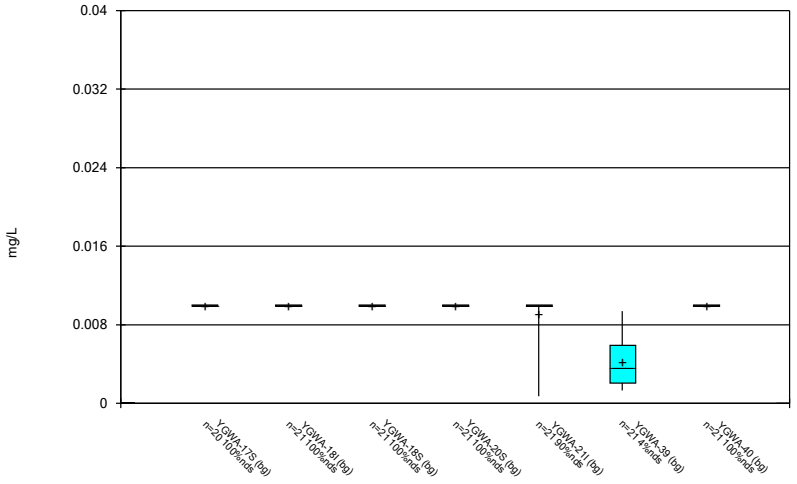
Sanitas™ v.10.0.16e Software licensed to . UG

## Box & Whiskers Plot

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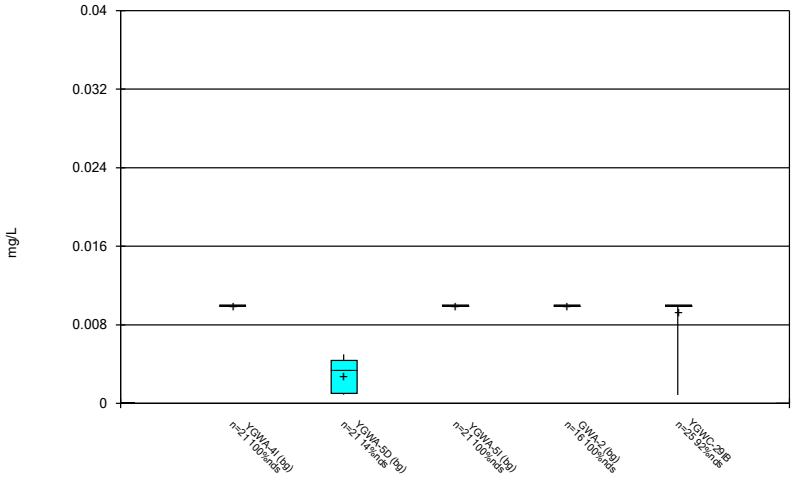
## Box & Whiskers Plot

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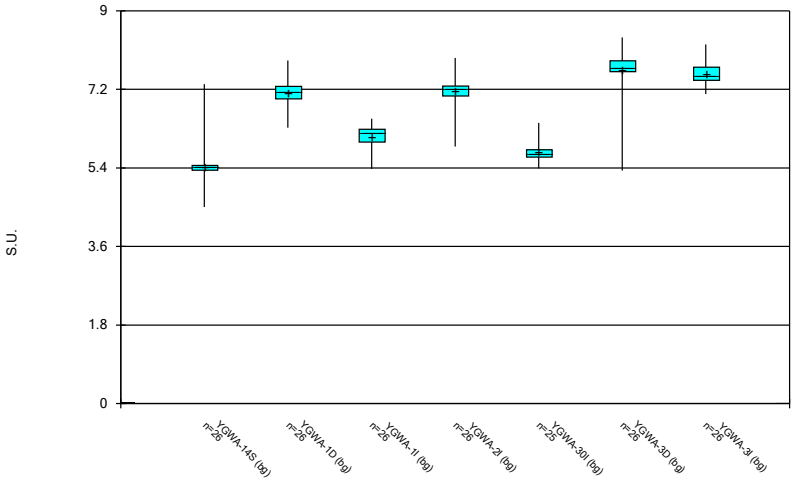
## Box & Whiskers Plot

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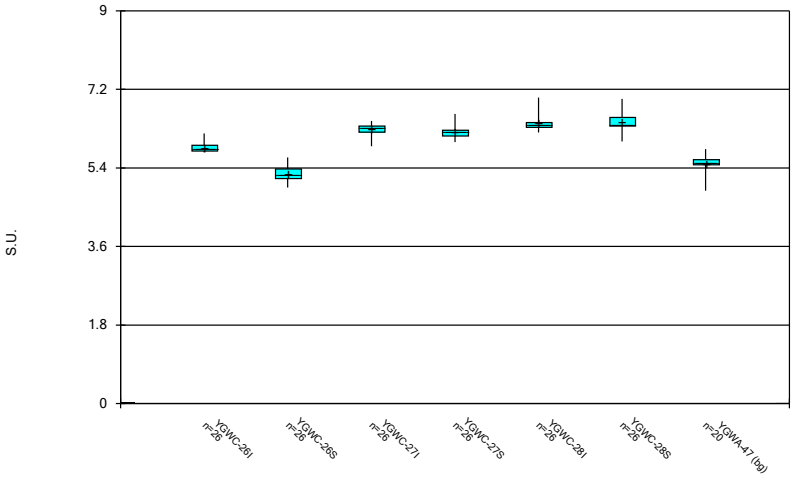
## Box & Whiskers Plot

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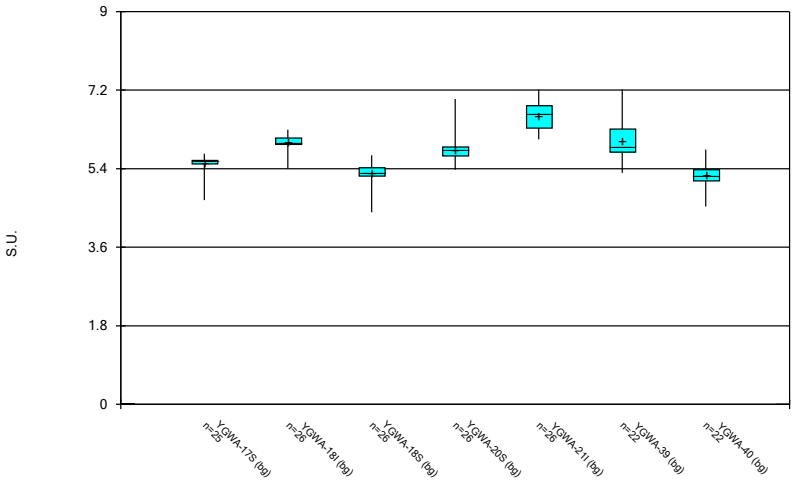
## Box & Whiskers Plot

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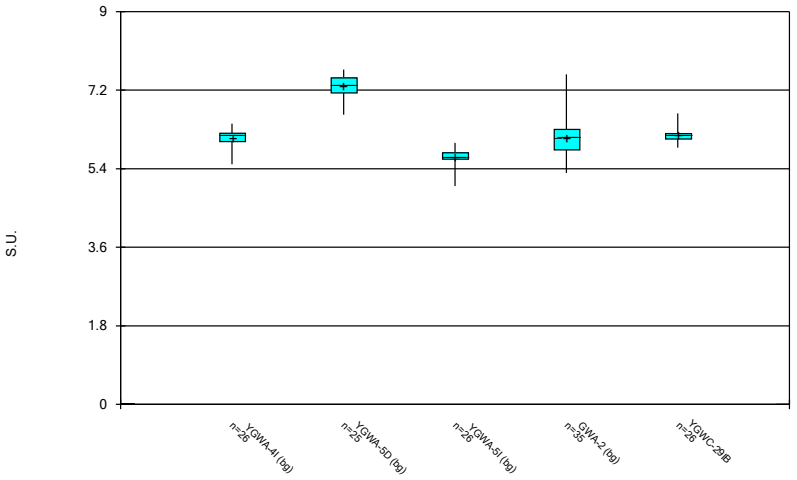
Sanitas™ v.10.0.16e Software licensed to . UG

## Box & Whiskers Plot

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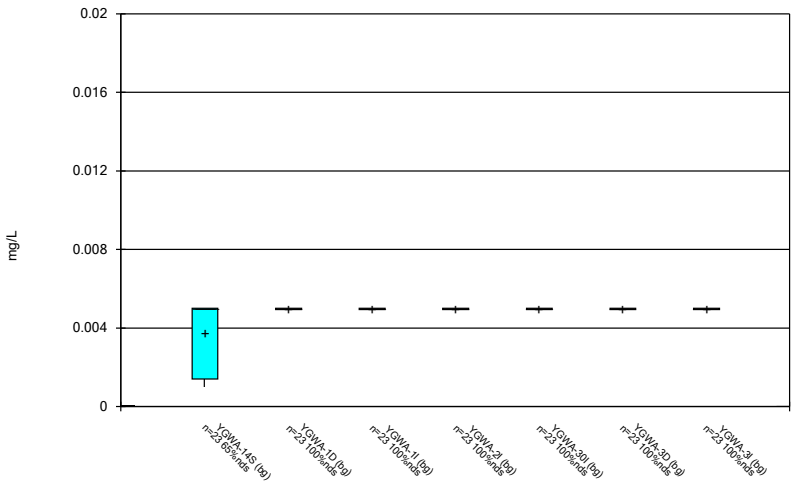
## Box & Whiskers Plot

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Plant Yates Data: Yates Ash Pond 2

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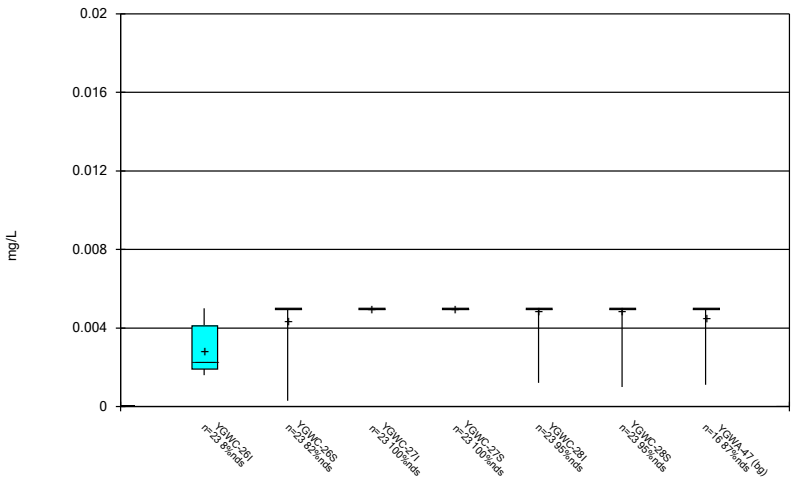
## Box & Whiskers Plot

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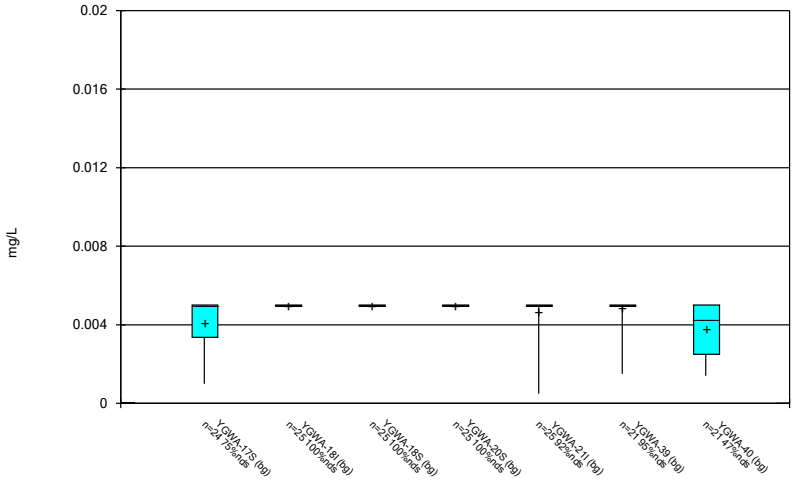
## Box & Whiskers Plot

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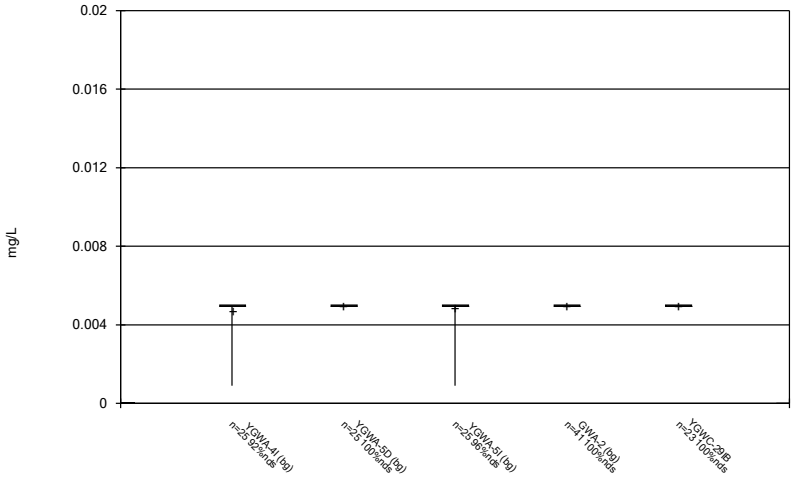
Sanitas™ v.10.0.16e Software licensed to . UG

## Box & Whiskers Plot

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Plant Yates Data: Yates Ash Pond 2

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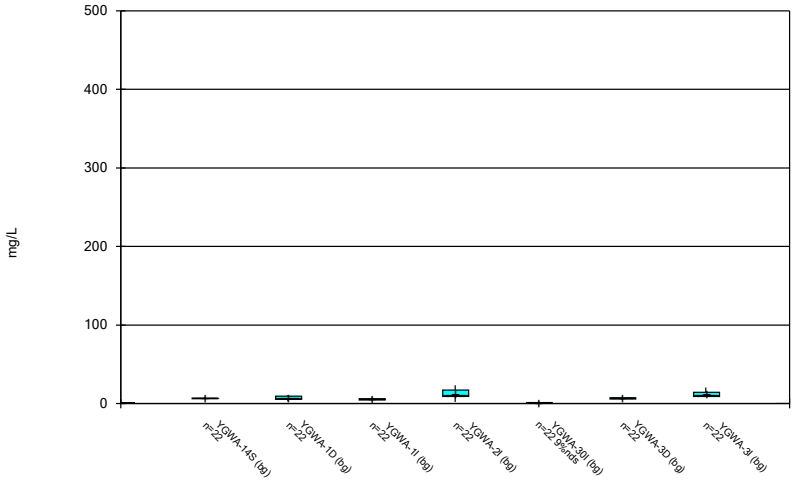
## Box & Whiskers Plot




Constituent: Sulfate Analysis Run 5/2/2024 9:51 AM
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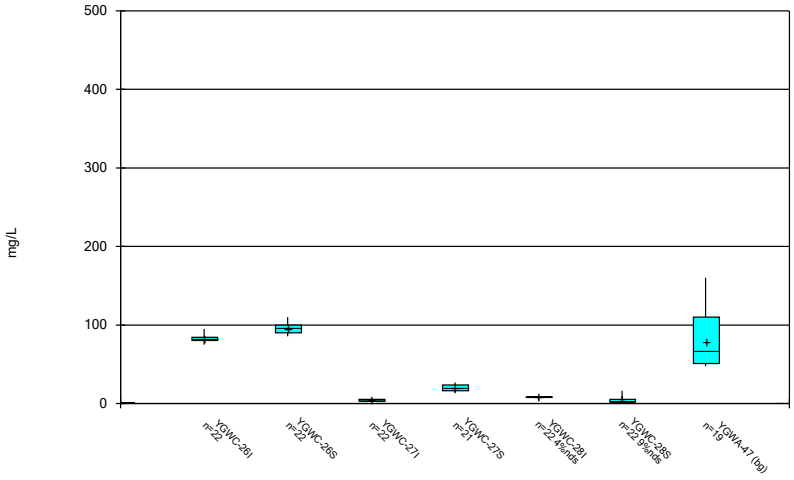
## Box & Whiskers Plot

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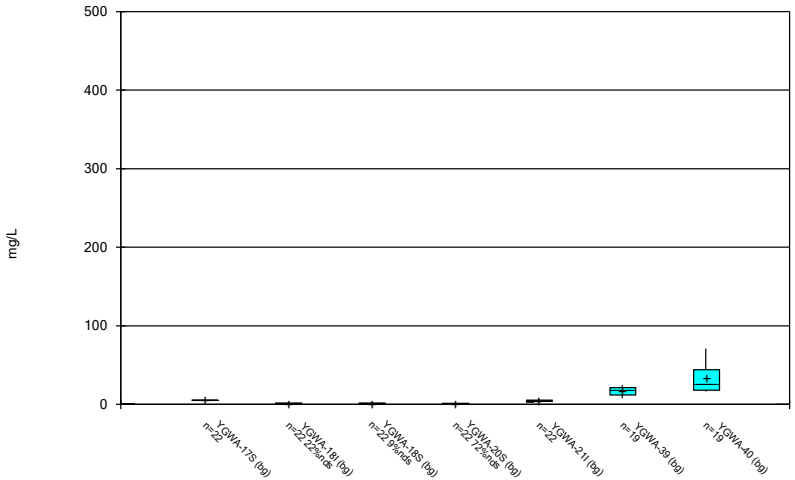
Sanitas™ v.10.0.16e Software licensed to . UG

## Box & Whiskers Plot

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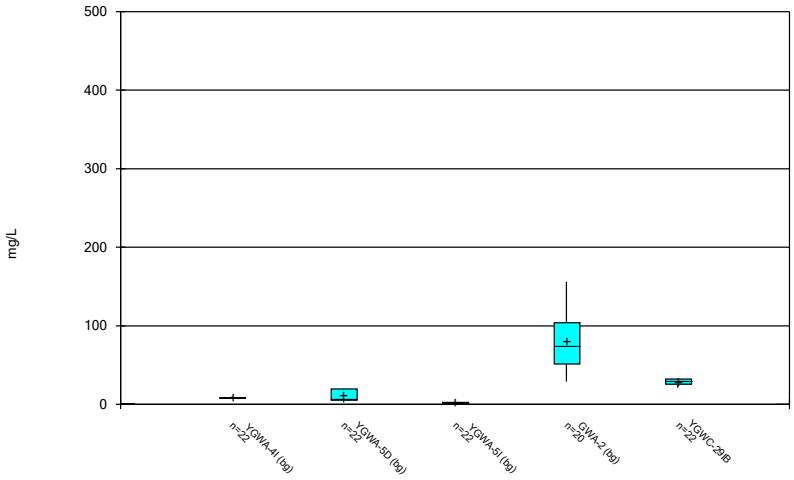
Sanitas™ v.10.0.16e Software licensed to . UG

## Box & Whiskers Plot

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Plant Yates Data: Yates Ash Pond 2

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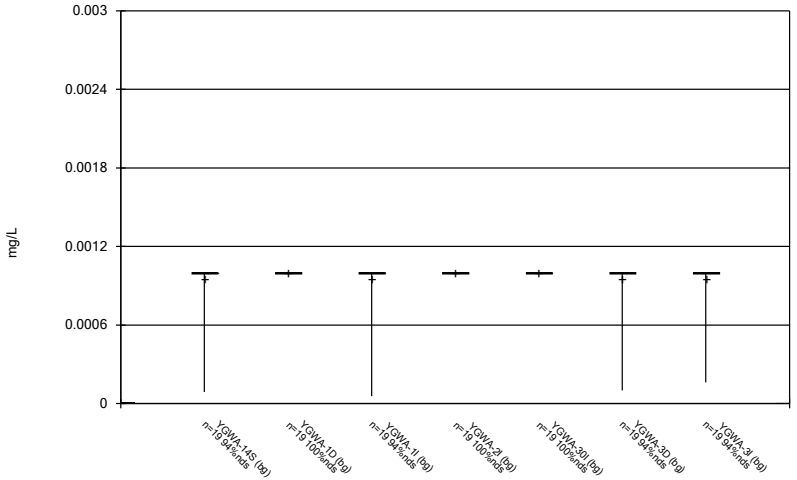
## Box & Whiskers Plot




Constituent: Thallium Analysis Run 5/2/2024 9:51 AM
Plant Yates Data: Yates Ash Pond 2

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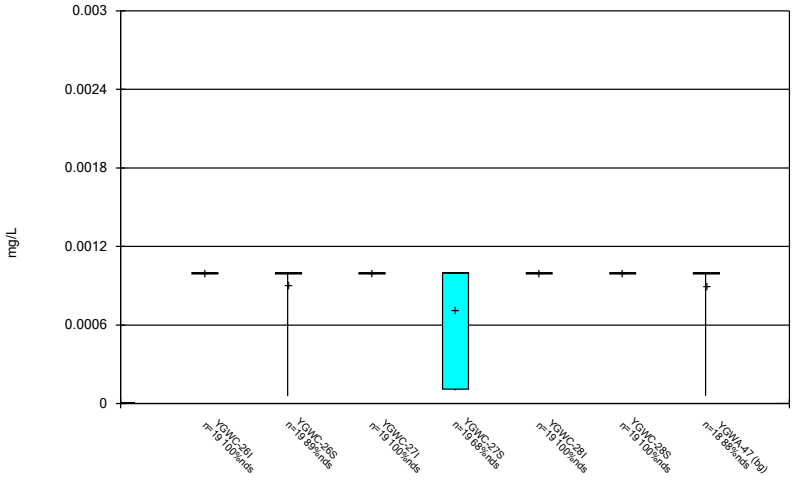
## Box & Whiskers Plot

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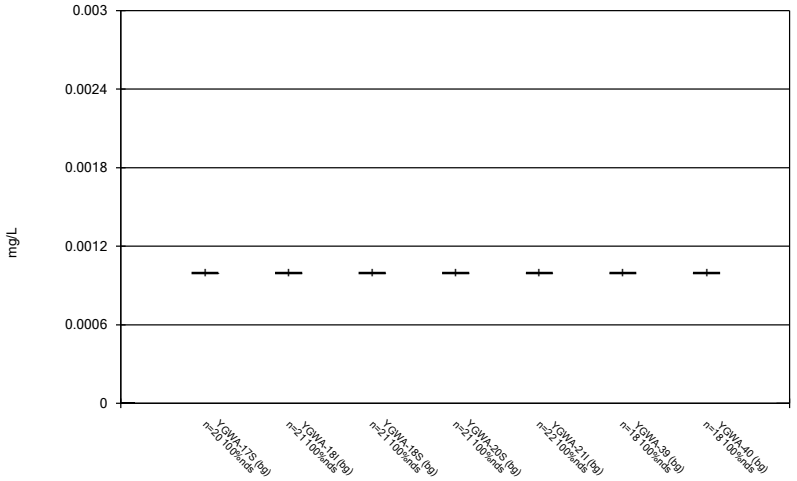
## Box & Whiskers Plot

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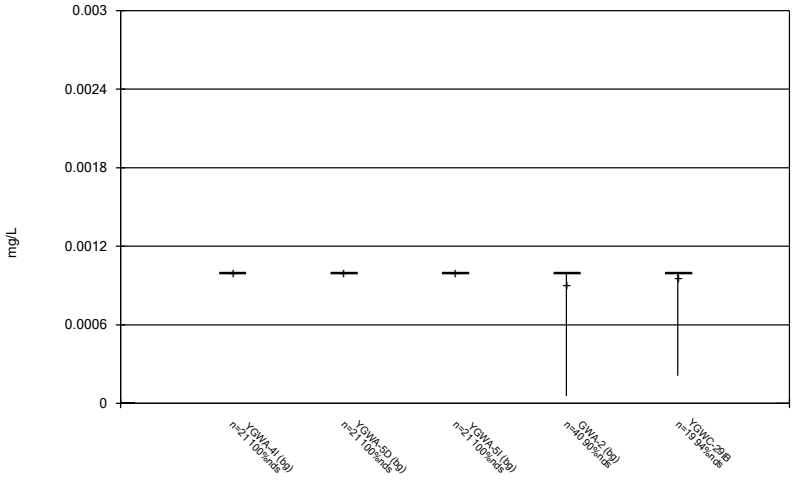
## Box & Whiskers Plot

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Plant Yates Data: Yates Ash Pond 2

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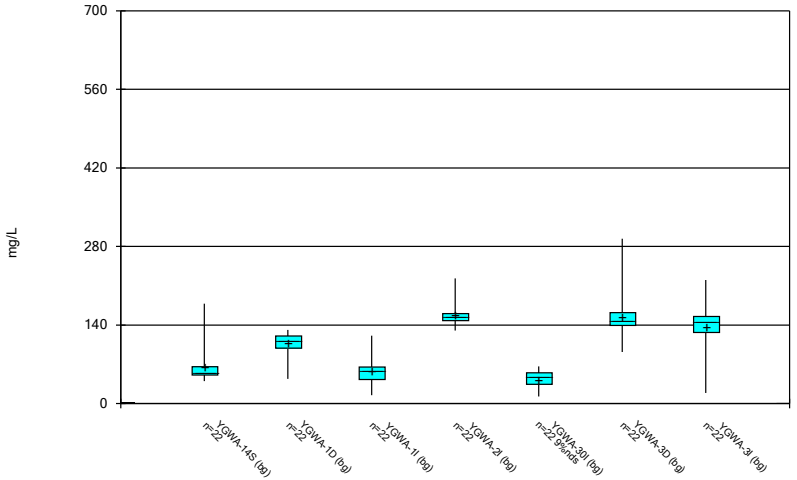
## Box & Whiskers Plot




Constituent: Total Dissolved Solids Analysis Run 5/2/2024 9:51 AM

Plant Yates Data: Yates Ash Pond 2

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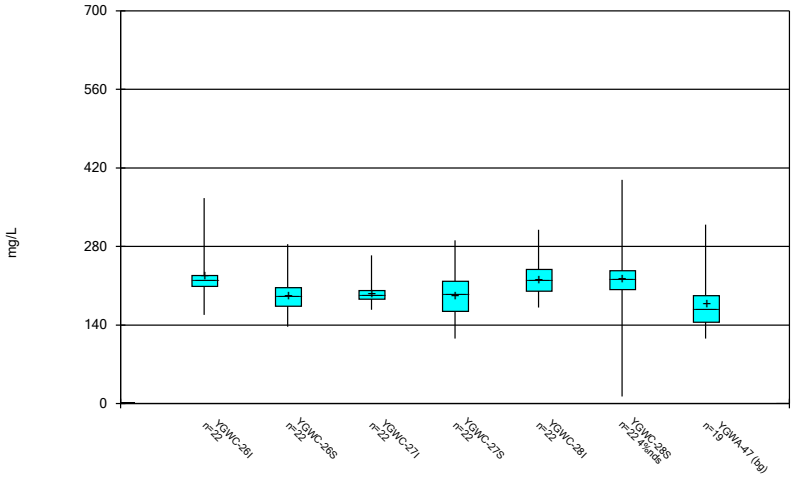
## Box & Whiskers Plot




Constituent: Total Dissolved Solids Analysis Run 5/2/2024 9:51 AM

Plant Yates Data: Yates Ash Pond 2

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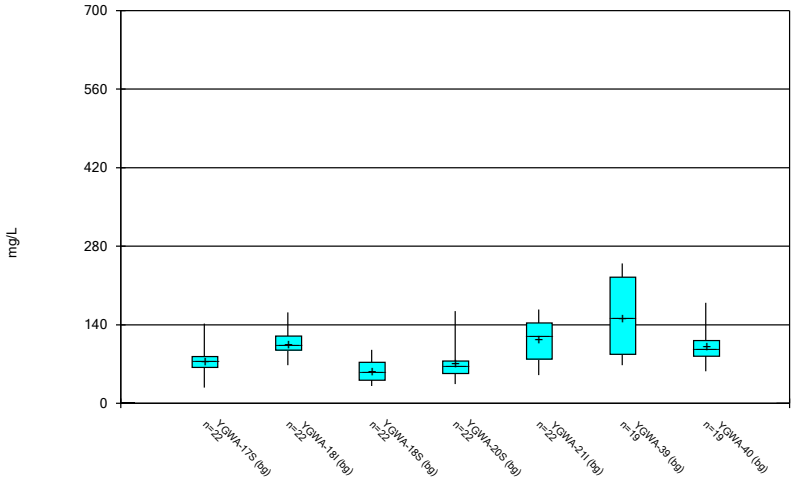
## Box & Whiskers Plot




Constituent: Total Dissolved Solids Analysis Run 5/2/2024 9:51 AM

Plant Yates Data: Yates Ash Pond 2

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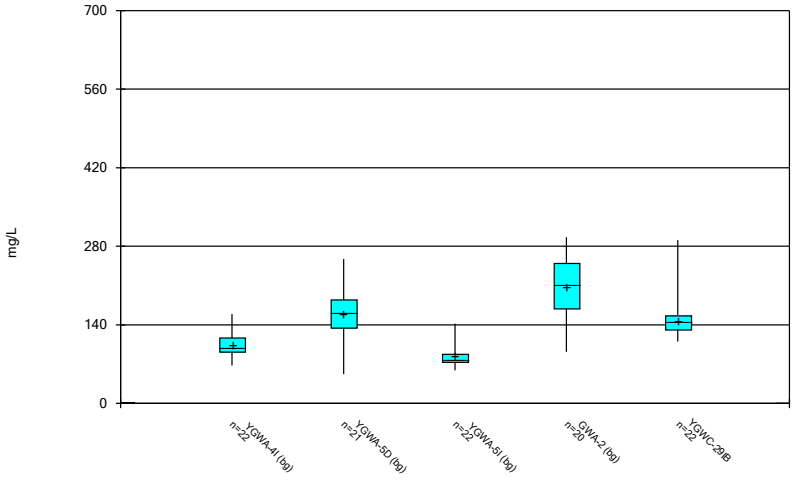
## Box & Whiskers Plot




Constituent: Total Dissolved Solids Analysis Run 5/2/2024 9:51 AM

Plant Yates Data: Yates Ash Pond 2

# FIGURE C.

# Outlier Summary

Plant Yates  Data: Yates Ash Pond 2  Printed 5/2/2024, 9:52 AM

| | GWA-2 Cobalt (mg/L) | YGWC-26i Combined Radium 226 + 228 (pCi/L) | YGWA-47 pH (S.U.) | YGWC-27S Sulfate (mg/L) | YGWA-5D Total Dissolved Solids (mg/L) |
|---|---|---|---|---|---|
| 6/8/2016 | | 6.68 (o) | | | |
| 4/2/2018 | | | 6.3 (o) | | |
| 8/26/2020 | 0.2 (O) | | | | |
| 9/22/2020 | 0.16 (O) | | | | |
| 3/2/2021 | 0.21 (O) | | | | |
| 3/3/2021 | | | | 451 (o) | |
| 8/20/2021 | 0.074 (O) | | | | |
| 2/8/2022 | 0.072 (O) | | | | |
| 8/30/2022 | 0.075 (O) | | | | |
| 2/20/2024 | | | | | 639 (o) |

FIGURE D.

# Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 9:57 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boron (mg/L) | YGWC-26I | 0.16 | n/a | 2/22/2024 | 0.77 | Yes | 407 | n/a | n/a | 51.35 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-26S | 0.16 | n/a | 2/22/2024 | 0.78 | Yes | 407 | n/a | n/a | 51.35 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-27I | 0.16 | n/a | 2/21/2024 | 1.8 | Yes | 407 | n/a | n/a | 51.35 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-27S | 0.16 | n/a | 2/21/2024 | 0.91 | Yes | 407 | n/a | n/a | 51.35 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-28I | 0.16 | n/a | 2/21/2024 | 1.6 | Yes | 407 | n/a | n/a | 51.35 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-28S | 0.16 | n/a | 2/21/2024 | 2.3 | Yes | 407 | n/a | n/a | 51.35 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | YGWC-29IB | 0.16 | n/a | 2/22/2024 | 1.1 | Yes | 407 | n/a | n/a | 51.35 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| Chloride (mg/L) | YGWC-26I | 12.2 | n/a | 2/22/2024 | 16 | Yes | 407 | n/a | n/a | 0 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-26S | 12.2 | n/a | 2/22/2024 | 14.9 | Yes | 407 | n/a | n/a | 0 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-27I | 12.2 | n/a | 2/21/2024 | 12.5 | Yes | 407 | n/a | n/a | 0 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-27S | 12.2 | n/a | 2/21/2024 | 12.6 | Yes | 407 | n/a | n/a | 0 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | YGWC-28S | 12.2 | n/a | 2/21/2024 | 17.5 | Yes | 407 | n/a | n/a | 0 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |

# Appendix III Interwell Prediction Limits - All Results

Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 9:57 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Boron (mg/L)** | **YGWC-26I** | **0.16** | **n/a** | **2/22/2024** | **0.77** | **Yes** | **407** | **n/a** | **n/a** | **51.35** | **n/a** | **n/a** | **0.00004918** | **NP Inter (NDs) 1 of 2** |
| **Boron (mg/L)** | **YGWC-26S** | **0.16** | **n/a** | **2/22/2024** | **0.78** | **Yes** | **407** | **n/a** | **n/a** | **51.35** | **n/a** | **n/a** | **0.00004918** | **NP Inter (NDs) 1 of 2** |
| **Boron (mg/L)** | **YGWC-27I** | **0.16** | **n/a** | **2/21/2024** | **1.8** | **Yes** | **407** | **n/a** | **n/a** | **51.35** | **n/a** | **n/a** | **0.00004918** | **NP Inter (NDs) 1 of 2** |
| **Boron (mg/L)** | **YGWC-27S** | **0.16** | **n/a** | **2/21/2024** | **0.91** | **Yes** | **407** | **n/a** | **n/a** | **51.35** | **n/a** | **n/a** | **0.00004918** | **NP Inter (NDs) 1 of 2** |
| **Boron (mg/L)** | **YGWC-28I** | **0.16** | **n/a** | **2/21/2024** | **1.6** | **Yes** | **407** | **n/a** | **n/a** | **51.35** | **n/a** | **n/a** | **0.00004918** | **NP Inter (NDs) 1 of 2** |
| **Boron (mg/L)** | **YGWC-28S** | **0.16** | **n/a** | **2/21/2024** | **2.3** | **Yes** | **407** | **n/a** | **n/a** | **51.35** | **n/a** | **n/a** | **0.00004918** | **NP Inter (NDs) 1 of 2** |
| **Boron (mg/L)** | **YGWC-29IB** | **0.16** | **n/a** | **2/22/2024** | **1.1** | **Yes** | **407** | **n/a** | **n/a** | **51.35** | **n/a** | **n/a** | **0.00004918** | **NP Inter (NDs) 1 of 2** |
| Calcium (mg/L) | YGWC-26I | 37 | n/a | 2/22/2024 | 16.7 | No | 407 | n/a | n/a | 0.7371 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | YGWC-26S | 37 | n/a | 2/22/2024 | 11 | No | 407 | n/a | n/a | 0.7371 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | YGWC-27I | 37 | n/a | 2/21/2024 | 27.7 | No | 407 | n/a | n/a | 0.7371 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | YGWC-27S | 37 | n/a | 2/21/2024 | 20.4 | No | 407 | n/a | n/a | 0.7371 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | YGWC-28I | 37 | n/a | 2/21/2024 | 27.8 | No | 407 | n/a | n/a | 0.7371 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | YGWC-28S | 37 | n/a | 2/21/2024 | 31 | No | 407 | n/a | n/a | 0.7371 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | YGWC-29IB | 37 | n/a | 2/22/2024 | 11.5 | No | 407 | n/a | n/a | 0.7371 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| **Chloride (mg/L)** | **YGWC-26I** | **12.2** | **n/a** | **2/22/2024** | **16** | **Yes** | **407** | **n/a** | **n/a** | **0** | **n/a** | **n/a** | **0.00004918** | **NP Inter (normality) 1 of 2** |
| **Chloride (mg/L)** | **YGWC-26S** | **12.2** | **n/a** | **2/22/2024** | **14.9** | **Yes** | **407** | **n/a** | **n/a** | **0** | **n/a** | **n/a** | **0.00004918** | **NP Inter (normality) 1 of 2** |
| **Chloride (mg/L)** | **YGWC-27I** | **12.2** | **n/a** | **2/21/2024** | **12.5** | **Yes** | **407** | **n/a** | **n/a** | **0** | **n/a** | **n/a** | **0.00004918** | **NP Inter (normality) 1 of 2** |
| **Chloride (mg/L)** | **YGWC-27S** | **12.2** | **n/a** | **2/21/2024** | **12.6** | **Yes** | **407** | **n/a** | **n/a** | **0** | **n/a** | **n/a** | **0.00004918** | **NP Inter (normality) 1 of 2** |
| Chloride (mg/L) | YGWC-28I | 12.2 | n/a | 2/21/2024 | 10.4 | No | 407 | n/a | n/a | 0 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| **Chloride (mg/L)** | **YGWC-28S** | **12.2** | **n/a** | **2/21/2024** | **17.5** | **Yes** | **407** | **n/a** | **n/a** | **0** | **n/a** | **n/a** | **0.00004918** | **NP Inter (normality) 1 of 2** |
| Chloride (mg/L) | YGWC-29IB | 12.2 | n/a | 2/22/2024 | 10.5 | No | 407 | n/a | n/a | 0 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | YGWC-26I | 0.68 | n/a | 2/22/2024 | 0.057J | No | 476 | n/a | n/a | 63.45 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | YGWC-26S | 0.68 | n/a | 2/22/2024 | 0.1ND | No | 476 | n/a | n/a | 63.45 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | YGWC-27I | 0.68 | n/a | 2/21/2024 | 0.082J | No | 476 | n/a | n/a | 63.45 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | YGWC-27S | 0.68 | n/a | 2/21/2024 | 0.11 | No | 476 | n/a | n/a | 63.45 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | YGWC-28I | 0.68 | n/a | 2/21/2024 | 0.096J | No | 476 | n/a | n/a | 63.45 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | YGWC-28S | 0.68 | n/a | 2/21/2024 | 0.15 | No | 476 | n/a | n/a | 63.45 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | YGWC-29IB | 0.68 | n/a | 2/22/2024 | 0.075J | No | 476 | n/a | n/a | 63.45 | n/a | n/a | 0.00004918 | NP Inter (NDs) 1 of 2 |
| pH (S.U.) | YGWC-26I | 8.39 | 4.4 | 2/22/2024 | 5.92 | No | 486 | n/a | n/a | 0 | n/a | n/a | 0.00009836 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | YGWC-26S | 8.39 | 4.4 | 2/22/2024 | 5.58 | No | 486 | n/a | n/a | 0 | n/a | n/a | 0.00009836 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | YGWC-27I | 8.39 | 4.4 | 2/21/2024 | 6.43 | No | 486 | n/a | n/a | 0 | n/a | n/a | 0.00009836 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | YGWC-27S | 8.39 | 4.4 | 2/21/2024 | 6.26 | No | 486 | n/a | n/a | 0 | n/a | n/a | 0.00009836 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | YGWC-28I | 8.39 | 4.4 | 2/21/2024 | 6.43 | No | 486 | n/a | n/a | 0 | n/a | n/a | 0.00009836 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | YGWC-28S | 8.39 | 4.4 | 2/21/2024 | 6.49 | No | 486 | n/a | n/a | 0 | n/a | n/a | 0.00009836 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | YGWC-29IB | 8.39 | 4.4 | 2/22/2024 | 6.01 | No | 486 | n/a | n/a | 0 | n/a | n/a | 0.00009836 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | YGWC-26I | 160 | n/a | 2/22/2024 | 80.7 | No | 407 | n/a | n/a | 6.143 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | YGWC-26S | 160 | n/a | 2/22/2024 | 89.3 | No | 407 | n/a | n/a | 6.143 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | YGWC-27I | 160 | n/a | 2/21/2024 | 3.8 | No | 407 | n/a | n/a | 6.143 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | YGWC-27S | 160 | n/a | 2/21/2024 | 13 | No | 407 | n/a | n/a | 6.143 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | YGWC-28I | 160 | n/a | 2/21/2024 | 8.5 | No | 407 | n/a | n/a | 6.143 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | YGWC-28S | 160 | n/a | 2/21/2024 | 3.9 | No | 407 | n/a | n/a | 6.143 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | YGWC-29IB | 160 | n/a | 2/22/2024 | 26.9 | No | 407 | n/a | n/a | 6.143 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-26I | 319 | n/a | 2/22/2024 | 215 | No | 406 | n/a | n/a | 0.4926 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-26S | 319 | n/a | 2/22/2024 | 188 | No | 406 | n/a | n/a | 0.4926 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-27I | 319 | n/a | 2/21/2024 | 194 | No | 406 | n/a | n/a | 0.4926 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-27S | 319 | n/a | 2/21/2024 | 149 | No | 406 | n/a | n/a | 0.4926 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-28I | 319 | n/a | 2/21/2024 | 213 | No | 406 | n/a | n/a | 0.4926 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-28S | 319 | n/a | 2/21/2024 | 235 | No | 406 | n/a | n/a | 0.4926 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | YGWC-29IB | 319 | n/a | 2/22/2024 | 146 | No | 406 | n/a | n/a | 0.4926 | n/a | n/a | 0.00004918 | NP Inter (normality) 1 of 2 |

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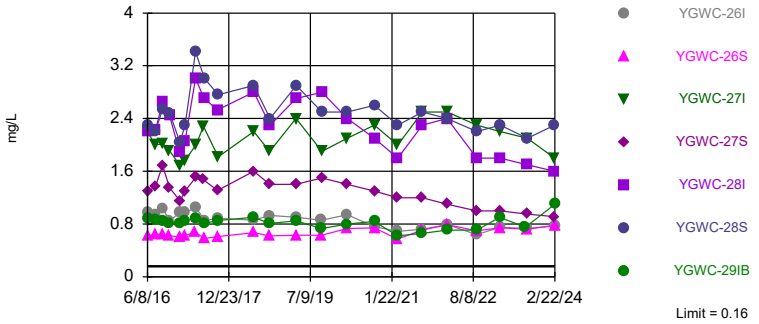
Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29IB

## Prediction Limit

Interwell Non-parametric




Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 407 background values. 51.35% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 5/2/2024 9:53 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

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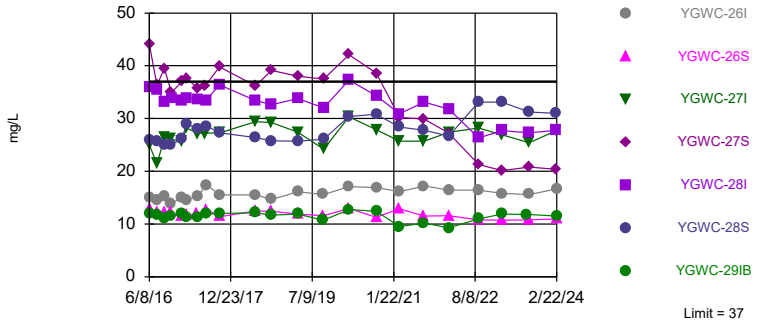
Within Limit

## Prediction Limit

Interwell Non-parametric




Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 407 background values. 0.7371% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 5/2/2024 9:53 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

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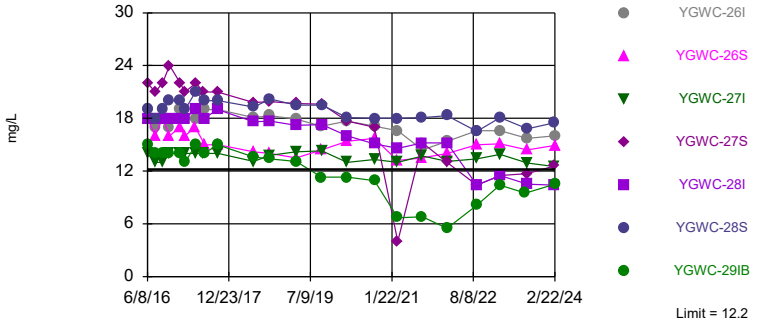
Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28S

## Prediction Limit

Interwell Non-parametric




Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 407 background values. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Chloride Analysis Run 5/2/2024 9:53 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

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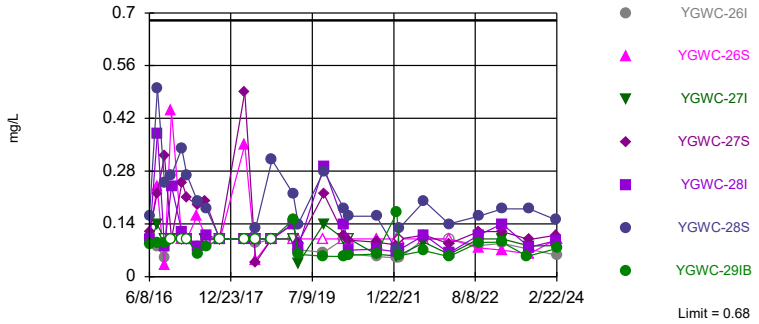
Hollow symbols indicate censored values.

Within Limit

## Prediction Limit

Interwell Non-parametric




Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 476 background values. 63.45% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 5/2/2024 9:53 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

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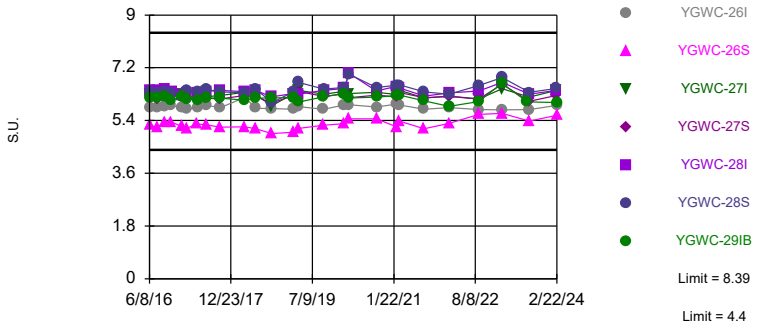
Within Limits

## Prediction Limit

Interwell Non-parametric




Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 486 background values. Annual per-constituent alpha = 0.001377. Individual comparison alpha = 0.00009836 (1 of 2). Comparing 7 points to limit.

Constituent: pH Analysis Run 5/2/2024 9:53 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

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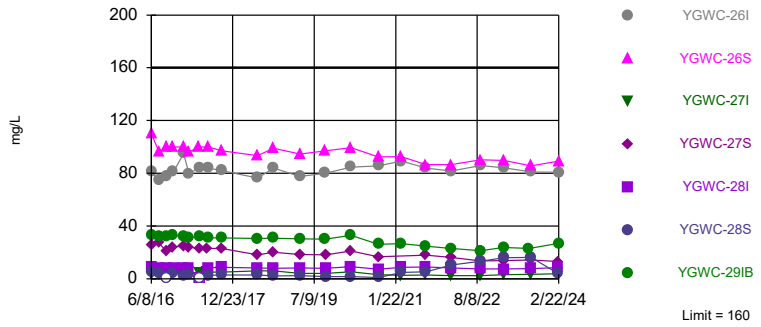
Hollow symbols indicate censored values.

Within Limit

## Prediction Limit

Interwell Non-parametric




Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 407 background values. 6.143% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 5/2/2024 9:53 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

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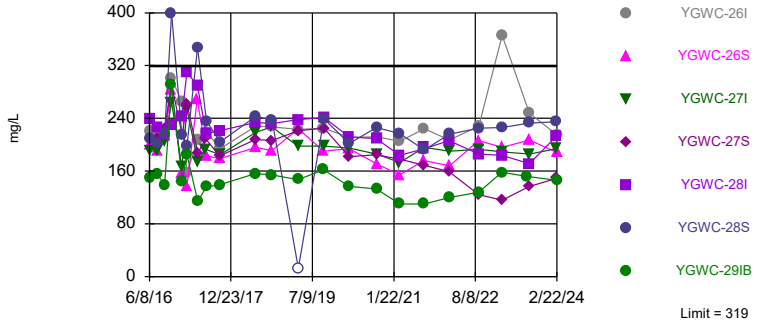
Hollow symbols indicate censored values.

Within Limit

## Prediction Limit

Interwell Non-parametric




Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 406 background values. 0.4926% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Total Dissolved Solids Analysis Run 5/2/2024 9:53 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-1I (bg) | YGWA-3I (bg) | YGWA-1D (bg) | YGWA-14S (bg) | YGWA-4I (bg) | YGWA-30I (bg) | YGWA-5I (bg) | YGWA-3D (bg) | YGWA-5D (bg) |
|---|---|---|---|---|---|---|---|---|---|
| 6/1/2016 | <0.04 | <0.04 | <0.04 | | | | | | |
| 6/2/2016 | | | | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| 6/6/2016 | | | | | | | | | |
| 6/7/2016 | | | | | | | | | |
| 6/8/2016 | | | | | | | | | |
| 6/9/2016 | | | | | | | | | |
| 7/25/2016 | <0.04 | <0.04 | | | | <0.04 | | | |
| 7/26/2016 | | | 0.0055 (J) | 0.0177 (J) | 0.0047 (J) | | <0.04 | 0.0097 (J) | 0.0052 (J) |
| 7/27/2016 | | | | | | | | | |
| 7/28/2016 | | | | | | | | | |
| 8/1/2016 | | | | | | | | | |
| 8/2/2016 | | | | | | | | | |
| 8/30/2016 | | | | | | | | | |
| 8/31/2016 | | | | | | | | | |
| 9/13/2016 | <0.04 | | <0.04 | | | | | | |
| 9/14/2016 | | <0.04 | | | <0.04 | | 0.01 (J) | | 0.0071 (J) |
| 9/15/2016 | | | | 0.0214 (J) | | | | 0.0102 (J) | |
| 9/16/2016 | | | | | | | | | |
| 9/19/2016 | | | | | | <0.04 | | | |
| 9/20/2016 | | | | | | | | | |
| 9/21/2016 | | | | | | | | | |
| 11/1/2016 | | <0.04 | 0.0086 (J) | | | <0.04 | | <0.04 | |
| 11/2/2016 | | | | <0.04 | <0.04 | | | | <0.04 |
| 11/3/2016 | | | | | | | | | |
| 11/4/2016 | <0.04 | | | | | | <0.04 | | |
| 11/7/2016 | | | | | | | | | |
| 11/8/2016 | | | | | | | | | |
| 11/14/2016 | | | | | | | | | |
| 11/28/2016 | | | | | | | | | |
| 12/15/2016 | | | | | | | | | |
| 1/10/2017 | | | | 0.0198 (J) | | | | | |
| 1/11/2017 | | <0.04 | 0.0074 (J) | | | | | <0.04 | |
| 1/12/2017 | | | | | | | <0.04 | | 0.0076 (J) |
| 1/13/2017 | | | | | <0.04 | | | | |
| 1/16/2017 | <0.04 | | | | | <0.04 | | | |
| 1/18/2017 | | | | | | | | | |
| 1/19/2017 | | | | | | | | | |
| 2/21/2017 | | | | | | <0.04 | | | |
| 2/22/2017 | | | | | | | | | |
| 2/23/2017 | | | | | | | | | |
| 2/24/2017 | | | | | | | | | |
| 3/1/2017 | | <0.04 | | | | | | | |
| 3/2/2017 | <0.04 | | 0.008 (J) | | | | | 0.0084 (J) | |
| 3/3/2017 | | | | | | | | | |
| 3/6/2017 | | | | | <0.04 | | | | |
| 3/7/2017 | | | | | | | <0.04 | | 0.0089 (J) |
| 3/8/2017 | | | | 0.0189 (J) | | | | | |
| 4/26/2017 | | <0.04 | | 0.0161 (J) | | <0.04 | | <0.04 | |
| 4/27/2017 | <0.04 | | 0.0066 (J) | | | | | | |
| 4/28/2017 | | | | | | | | | |
| 5/1/2017 | | | | | <0.04 | | | | 0.0061 (J) |
| 5/2/2017 | | | | | | | <0.04 | | |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-1I (bg) | YGWA-3I (bg) | YGWA-1D (bg) | YGWA-14S (bg) | YGWA-4I (bg) | YGWA-30I (bg) | YGWA-5I (bg) | YGWA-3D (bg) | YGWA-5D (bg) |
|---|---|---|---|---|---|---|---|---|---|
| 5/3/2017 | | | | | | | | | |
| 5/5/2017 | | | | | | | | | |
| 5/8/2017 | | | | | | | | | |
| 5/26/2017 | | | | | | | | | |
| 6/27/2017 | 0.006 (J) | | 0.0087 (J) | | | | <0.04 | | 0.0079 (J) |
| 6/28/2017 | | <0.04 | | | | | | <0.04 | |
| 6/29/2017 | | | | | <0.04 | | | | |
| 6/30/2017 | | | | 0.0173 (J) | | <0.04 | | | |
| 7/5/2017 | | | | | | | | | |
| 7/7/2017 | | | | | | | | | |
| 7/10/2017 | | | | | | | | | |
| 7/11/2017 | | | | | | | | | |
| 7/17/2017 | | | | | | | | | |
| 10/3/2017 | 0.0071 (J) | | 0.0072 (J) | | | | <0.04 | | 0.0094 (J) |
| 10/4/2017 | | <0.04 | | | | <0.04 | | <0.04 | |
| 10/5/2017 | | | | 0.0173 (J) | <0.04 | | | | |
| 10/6/2017 | | | | | | | | | |
| 10/9/2017 | | | | | | | | | |
| 10/10/2017 | | | | | | | | | |
| 10/11/2017 | | | | | | | | | |
| 10/12/2017 | | | | | | | | | |
| 10/16/2017 | | | | | | | | | |
| 11/20/2017 | | | | | | | | | |
| 1/10/2018 | | | | | | | | | |
| 1/11/2018 | | | | | | | | | |
| 2/19/2018 | | | | | | | | | |
| 2/20/2018 | | | | | | | | | |
| 4/2/2018 | | | | | | | | | |
| 4/3/2018 | | | | | | | | | |
| 6/5/2018 | | | 0.0052 (J) | | | | | | |
| 6/6/2018 | <0.04 | | | | | | | | 0.0098 (J) |
| 6/7/2018 | | | | | 0.0045 (J) | | <0.04 | 0.004 (J) | |
| 6/8/2018 | | <0.04 | | 0.013 (J) | | | | | |
| 6/11/2018 | | | | | | 0.014 (J) | | | |
| 6/12/2018 | | | | | | | | | |
| 6/13/2018 | | | | | | | | | |
| 6/28/2018 | | | | | | | | | |
| 8/6/2018 | | | | | | | | | |
| 8/7/2018 | | | | | | | | | |
| 9/19/2018 | | | | | | | | | |
| 9/24/2018 | | | | | | | | | |
| 9/25/2018 | | | | | | | | | |
| 9/26/2018 | | | | | 0.005 (J) | | 0.0057 (J) | | 0.01 (J) |
| 10/1/2018 | 0.0049 (J) | <0.04 | 0.021 (J) | 0.015 (J) | | | | <0.04 | |
| 10/2/2018 | | | | | | <0.04 | | | |
| 10/3/2018 | | | | | | | | | |
| 2/25/2019 | | | | | | | | | |
| 3/26/2019 | | | | | | | | | |
| 3/27/2019 | | | | | | | | | |
| 3/28/2019 | <0.04 | | 0.005 (J) | | | | | | |
| 3/29/2019 | | | | 0.014 (J) | | | | | |
| 4/1/2019 | | <0.04 | | | | <0.04 | | <0.04 | |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-1I (bg) | YGWA-3I (bg) | YGWA-1D (bg) | YGWA-14S (bg) | YGWA-4I (bg) | YGWA-30I (bg) | YGWA-5I (bg) | YGWA-3D (bg) | YGWA-5D (bg) |
|---|---|---|---|---|---|---|---|---|---|
| 4/2/2019 | | | | | | | | | |
| 4/3/2019 | | | | | 0.0055 (J) | | 0.0044 (J) | | 0.0076 (J) |
| 6/12/2019 | | | | | | | | | |
| 9/24/2019 | 0.0055 (J) | | 0.0064 (J) | | | | 0.0049 (J) | | 0.01 (J) |
| 9/25/2019 | | <0.04 | | 0.018 (J) | <0.04 | <0.04 | | 0.0054 (J) | |
| 9/26/2019 | | | | | | | | | |
| 10/8/2019 | | | | | | | | | |
| 10/9/2019 | | | | | | | | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 0.0087 (J) | | | 0.02 (J) | | | | | |
| 3/19/2020 | | 0.0053 (J) | 0.0085 (J) | | | 0.0052 (J) | | 0.0073 (J) | |
| 3/20/2020 | | | | | | | | | |
| 3/24/2020 | | | | | | | 0.0068 (J) | | 0.011 (J) |
| 3/25/2020 | | | | | 0.011 (J) | | | | |
| 9/22/2020 | | | | | <0.04 | | 0.0053 (J) | | 0.0079 (J) |
| 9/23/2020 | <0.04 | 0.0073 (J) | <0.04 | | | | | 0.012 (J) | |
| 9/24/2020 | | | | | | 0.0075 (J) | | | |
| 9/25/2020 | | | | 0.02 (J) | | | | | |
| 3/1/2021 | | | | | | <0.04 | | | |
| 3/2/2021 | | | | 0.017 (J) | | | 0.011 (J) | | 0.0068 (J) |
| 3/3/2021 | <0.04 | <0.04 | <0.04 | | 0.0056 (J) | | | <0.04 | |
| 3/4/2021 | | | | | | | | | |
| 8/19/2021 | <0.04 | | <0.04 | 0.018 (J) | | <0.04 | | <0.04 | |
| 8/20/2021 | | | | | | | | | |
| 8/26/2021 | | | | | <0.04 | | <0.04 | | 0.009 (J) |
| 8/27/2021 | | <0.04 | | | | | | | |
| 9/1/2021 | | | | | | | | | |
| 9/3/2021 | | | | | | | | | |
| 2/8/2022 | | | | | | | | | |
| 2/9/2022 | <0.04 | <0.04 | <0.04 | | | | | 0.01 (J) | |
| 2/10/2022 | | | | 0.02 (J) | | | <0.04 | | 0.011 (J) |
| 2/11/2022 | | | | | <0.04 | <0.04 | | | |
| 8/30/2022 | | | <0.04 | | | | <0.04 | | 0.0098 (J) |
| 8/31/2022 | <0.04 | <0.04 | | 0.015 (J) | <0.04 | <0.04 | | <0.04 | |
| 9/1/2022 | | | | | | | | | |
| 2/7/2023 | <0.04 | | <0.04 | | | | | | <0.04 |
| 2/8/2023 | | <0.04 | | 0.015 (J) | | <0.04 | | <0.04 | |
| 2/9/2023 | | | | | <0.04 | | <0.04 | | |
| 8/2/2023 | | | | | | | | | |
| 8/15/2023 | 0.0094 (J) | | <0.04 | 0.017 (J) | <0.04 | | <0.04 | <0.04 | <0.04 |
| 8/16/2023 | | <0.04 | | | | <0.04 | | | |
| 8/17/2023 | | | | | | | | | |
| 2/20/2024 | 0.014 (J) | <0.04 | 0.015 (J) | | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| 2/21/2024 | | | | | | | | | |
| 2/22/2024 | | | | | | | | | |
| 2/23/2024 | | | | 0.037 (J) | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-17S (bg) | YGWA-21I (bg) | YGWA-20S (bg) | YGWC-26S | YGWC-27I | YGWC-26I | YGWC-27S |
|---|---|---|---|---|---|---|---|---|---|
| 6/1/2016 | | | | | | | | | |
| 6/2/2016 | | | | | | | | | |
| 6/6/2016 | <0.04 | <0.04 | | | | | | | |
| 6/7/2016 | | | <0.04 | <0.04 | <0.04 | | | | |
| 6/8/2016 | | | | | | 0.62 | 2.2 | 0.97 | 1.3 |
| 6/9/2016 | | | | | | | | | |
| 7/25/2016 | | | | | | | | | |
| 7/26/2016 | | | | | | | | | |
| 7/27/2016 | <0.04 | 0.0059 (J) | 0.008 (J) | | <0.04 | | | | |
| 7/28/2016 | | | | <0.04 | | | | | |
| 8/1/2016 | | | | | | 0.643 | 2 | 0.932 | 1.36 |
| 8/2/2016 | | | | | | | | | |
| 8/30/2016 | | | | | | | | | |
| 8/31/2016 | | | | | | | | | |
| 9/13/2016 | | | | | | | | | |
| 9/14/2016 | | | | | | | | | |
| 9/15/2016 | | | | | | | | | |
| 9/16/2016 | | 0.0079 (J) | 0.0086 (J) | | | | | | |
| 9/19/2016 | <0.04 | | | <0.04 | <0.04 | | | | |
| 9/20/2016 | | | | | | 0.644 | 2.02 | 1.04 | 1.69 |
| 9/21/2016 | | | | | | | | | |
| 11/1/2016 | | | | | | | | | |
| 11/2/2016 | | | | | <0.04 | | | | |
| 11/3/2016 | <0.04 | 0.0082 (J) | 0.0077 (J) | <0.04 | | | | | |
| 11/4/2016 | | | | | | | | | |
| 11/7/2016 | | | | | | 0.621 | 1.91 | 0.852 | 1.35 |
| 11/8/2016 | | | | | | | | | |
| 11/14/2016 | | | | | | | | | |
| 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 | | | | | | | | | |
| 1/18/2017 | | | | | | 0.607 | 1.69 | 0.972 | |
| 1/19/2017 | | | | | | | | | 1.15 |
| 2/21/2017 | | | | | | 0.624 | | 0.972 | |
| 2/22/2017 | | | | | | | | | 1.3 |
| 2/23/2017 | | | | | | | 1.76 | | |
| 2/24/2017 | | | | | | | | | |
| 3/1/2017 | <0.04 | <0.04 | | | | | | | |
| 3/2/2017 | | | 0.0095 (J) | | | | | | |
| 3/3/2017 | | | | | | | | | |
| 3/6/2017 | | | | <0.04 | <0.04 | | | | |
| 3/7/2017 | | | | | | | | | |
| 3/8/2017 | | | | | | | | | |
| 4/26/2017 | <0.04 | 0.0091 (J) | | <0.04 | <0.04 | | | | |
| 4/27/2017 | | | | | | | | | |
| 4/28/2017 | | | | | | | | | |
| 5/1/2017 | | | | | | | | | |
| 5/2/2017 | | | <0.04 | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-17S (bg) | YGWA-21I (bg) | YGWA-20S (bg) | YGWC-26S | YGWC-27I | YGWC-26I | YGWC-27S |
|---|---|---|---|---|---|---|---|---|---|
| 5/3/2017 | | | | | | 0.676 | | | |
| 5/5/2017 | | | | | | | | | |
| 5/8/2017 | | | | | | | 2 | 1.05 | 1.51 |
| 5/26/2017 | | | | | | | | | |
| 6/27/2017 | | | | | | | | | |
| 6/28/2017 | <0.04 | 0.0079 (J) | | | | | | | |
| 6/29/2017 | | | 0.0074 (J) | <0.04 | <0.04 | | | | |
| 6/30/2017 | | | | | | | 2.28 | | 1.47 |
| 7/5/2017 | | | | | | | | | |
| 7/7/2017 | | | | | | | | | |
| 7/10/2017 | | | | | | 0.58 | | 0.855 | |
| 7/11/2017 | | | | | | | | | |
| 7/17/2017 | | | | | | | | | |
| 10/3/2017 | | | | <0.04 | | | | | |
| 10/4/2017 | | 0.009 (J) | 0.0077 (J) | | <0.04 | | | | |
| 10/5/2017 | <0.04 | | | | | | | | |
| 10/6/2017 | | | | | | | | | 1.31 |
| 10/9/2017 | | | | | | | 1.82 | | |
| 10/10/2017 | | | | | | 0.612 | | 0.887 | |
| 10/11/2017 | | | | | | | | | |
| 10/12/2017 | | | | | | | | | |
| 10/16/2017 | | | | | | | | | |
| 11/20/2017 | | | | | | | | | |
| 1/10/2018 | | | | | | | | | |
| 1/11/2018 | | | | | | | | | |
| 2/19/2018 | | | | | | | | | |
| 2/20/2018 | | | | | | | | | |
| 4/2/2018 | | | | | | | | | |
| 4/3/2018 | | | | | | | | | |
| 6/5/2018 | | | | 0.0092 (J) | | | | | |
| 6/6/2018 | | | | | 0.0049 (J) | | | | |
| 6/7/2018 | <0.04 | | | | | | | | |
| 6/8/2018 | | | | | | | | | |
| 6/11/2018 | | 0.0093 (J) | 0.01 (J) | | | | | | |
| 6/12/2018 | | | | | | | | | 1.6 |
| 6/13/2018 | | | | | | 0.67 | 2.2 | 0.86 | |
| 6/28/2018 | | | | | | | | | |
| 8/6/2018 | | | | | | | | | |
| 8/7/2018 | | | | | | | | | |
| 9/19/2018 | | | | | | | | | |
| 9/24/2018 | | | | | | | | | |
| 9/25/2018 | 0.0046 (J) | 0.007 (J) | 0.0096 (J) | 0.0054 (J) | <0.04 | | | | |
| 9/26/2018 | | | | | | | | | |
| 10/1/2018 | | | | | | | | | |
| 10/2/2018 | | | | | | 0.62 | 1.9 | 0.93 | 1.4 |
| 10/3/2018 | | | | | | | | | |
| 2/25/2019 | | | | | | | | | |
| 3/26/2019 | | | | | | | | | |
| 3/27/2019 | | | | | | | | | |
| 3/28/2019 | | | | | | | | | |
| 3/29/2019 | | | | | | | | | |
| 4/1/2019 | | | | | | | 2.4 | | 1.4 |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-17S (bg) | YGWA-21I (bg) | YGWA-20S (bg) | YGWC-26S | YGWC-27I | YGWC-26I | YGWC-27S |
|---|---|---|---|---|---|---|---|---|---|
| 4/2/2019 | | | 0.0066 (J) | 0.011 (J) | | 0.63 | | 0.9 | |
| 4/3/2019 | <0.04 | 0.0053 (J) | | | <0.04 | | | | |
| 6/12/2019 | | | | | | | | | |
| 9/24/2019 | | | | 0.018 (J) | | | | | |
| 9/25/2019 | | | 0.0081 (J) | | <0.04 | 0.63 | | 0.86 | |
| 9/26/2019 | 0.0062 (J) | 0.0072 (J) | | | | | 1.9 | | 1.5 |
| 10/8/2019 | | | | | | | | | |
| 10/9/2019 | | | | | | | | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | | | | | | | | | |
| 3/19/2020 | | | | | | 0.73 | | | |
| 3/20/2020 | | | | | | | 2.1 | 0.94 | 1.4 |
| 3/24/2020 | 0.0054 (J) | 0.01 (J) | 0.0092 (J) | 0.016 (J) | <0.04 | | | | |
| 3/25/2020 | | | | | | | | | |
| 9/22/2020 | | | | | | | | | |
| 9/23/2020 | 0.021 (J) | 0.006 (J) | 0.0066 (J) | | | | | | |
| 9/24/2020 | | | | 0.013 (J) | 0.0094 (J) | 0.74 | 2.3 | 0.76 | 1.3 |
| 9/25/2020 | | | | | | | | | |
| 3/1/2021 | | | | | | | | | |
| 3/2/2021 | | | | | | 0.57 | | | |
| 3/3/2021 | <0.04 | 0.0094 (J) | 0.01 (J) | | <0.04 | | 2 | 0.69 | 1.2 |
| 3/4/2021 | | | | 0.0079 (J) | | | | | |
| 8/19/2021 | | | | | | 0.71 | | | |
| 8/20/2021 | | | | | | | 2.5 | 0.72 | 1.2 |
| 8/26/2021 | | <0.04 | | | | | | | |
| 8/27/2021 | <0.04 | | 0.011 (J) | | <0.04 | | | | |
| 9/1/2021 | | | | <0.04 | | | | | |
| 9/3/2021 | | | | | | | | | |
| 2/8/2022 | | | | | | | | | 1.1 |
| 2/9/2022 | <0.04 | <0.04 | 0.0098 (J) | <0.04 | <0.04 | | | | |
| 2/10/2022 | | | | | | 0.79 | 2.5 | 0.79 | |
| 2/11/2022 | | | | | | | | | |
| 8/30/2022 | <0.04 | 0.014 (J) | 0.013 (J) | 0.012 (J) | | | | | |
| 8/31/2022 | | | | | <0.04 | 0.7 | | 0.64 | |
| 9/1/2022 | | | | | | | 2.3 | | 1 |
| 2/7/2023 | <0.04 | <0.04 | 0.014 (J) | <0.04 | <0.04 | | | | |
| 2/8/2023 | | | | | | | | | |
| 2/9/2023 | | | | | | 0.74 | 2.2 | 0.75 | 1 |
| 8/2/2023 | | | | | | | | | |
| 8/15/2023 | <0.04 | <0.04 | <0.04 | 0.046 (J) | <0.04 | | | | |
| 8/16/2023 | | | | | | | | | |
| 8/17/2023 | | | | | | 0.72 | 2.1 | 0.73 | 0.95 |
| 2/20/2024 | <0.04 | | <0.04 | <0.04 | <0.04 | | | | |
| 2/21/2024 | | | | | | | 1.8 | | 0.91 |
| 2/22/2024 | | | | | | 0.78 | | 0.77 | |
| 2/23/2024 | | 0.018 (J) | | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWC-28I | YGWC-28S | YGWC-29IB | YGWA-47 (bg) | GWA-2 (bg) | YGWA-2I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|---|
| 6/1/2016 | | | | | | | | |
| 6/2/2016 | | | | | | | | |
| 6/6/2016 | | | | | | | | |
| 6/7/2016 | | | | | | | | |
| 6/8/2016 | | | | | | | | |
| 6/9/2016 | 2.2 | 2.3 | 0.88 | | | | | |
| 7/25/2016 | | | | | | | | |
| 7/26/2016 | | | | | | | | |
| 7/27/2016 | | | | | | | | |
| 7/28/2016 | | | | | | | | |
| 8/1/2016 | | | | | | | | |
| 8/2/2016 | 2.22 | 2.21 | 0.872 | | | | | |
| 8/30/2016 | | | | 0.0166 (J) | | | | |
| 8/31/2016 | | | | | 0.0315 (J) | | | |
| 9/13/2016 | | | | | | | | |
| 9/14/2016 | | | | | | <0.04 | | |
| 9/15/2016 | | | | | | | | |
| 9/16/2016 | | | | | | | | |
| 9/19/2016 | | | | | | | | |
| 9/20/2016 | | | | | | | | |
| 9/21/2016 | 2.65 | 2.54 | 0.853 | | | | | |
| 11/1/2016 | | | | | | | | |
| 11/2/2016 | | | | | | | | |
| 11/3/2016 | | | | | | | | |
| 11/4/2016 | | | | | | <0.04 | | |
| 11/7/2016 | | 2.49 | 0.815 | | | | | |
| 11/8/2016 | 2.44 | | | | | | | |
| 11/14/2016 | | | | 0.0166 (J) | | | | |
| 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 | | |
| 1/18/2017 | 1.88 | 2.04 | | | | | | |
| 1/19/2017 | | | 0.803 | | | | | |
| 2/21/2017 | | 2.29 | | | | | | |
| 2/22/2017 | 2.05 | | 0.855 | | <0.04 | | | |
| 2/23/2017 | | | | | | | | |
| 2/24/2017 | | | | 0.0145 (J) | | | | |
| 3/1/2017 | | | | | | | | |
| 3/2/2017 | | | | | | | | |
| 3/3/2017 | | | | | | <0.04 | | |
| 3/6/2017 | | | | | | | | |
| 3/7/2017 | | | | | | | | |
| 3/8/2017 | | | | | | | | |
| 4/26/2017 | | | | | | | | |
| 4/27/2017 | | | | | | | | |
| 4/28/2017 | | | | | | <0.04 | | |
| 5/1/2017 | | | | | | | | |
| 5/2/2017 | | | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWC-28I | YGWC-28S | YGWC-29IB | YGWA-47 (bg) | GWA-2 (bg) | YGWA-2I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|---|
| 5/3/2017 | | | | | | | | |
| 5/5/2017 | 3.01 | 3.41 | | | | | | |
| 5/8/2017 | | | 0.884 | 0.0141 (J) | 0.0084 (J) | | | |
| 5/26/2017 | | | | | | <0.04 | | |
| 6/27/2017 | | | | | | | | |
| 6/28/2017 | | | | | | <0.04 | | |
| 6/29/2017 | | | | | | | | |
| 6/30/2017 | | | | | | | | |
| 7/5/2017 | 2.7 | | 0.811 | | | | | |
| 7/7/2017 | | 3.01 | | | | | | |
| 7/10/2017 | | | | | | | | |
| 7/11/2017 | | | | 0.0131 (J) | | | | |
| 7/17/2017 | | | | | 0.0092 (J) | | | |
| 10/3/2017 | | | | | | <0.04 | | |
| 10/4/2017 | | | | | | | | |
| 10/5/2017 | 2.53 | | 0.851 | | | | | |
| 10/6/2017 | | | | | | | | |
| 10/9/2017 | | 2.76 | | | | | | |
| 10/10/2017 | | | | 0.0124 (J) | | | | |
| 10/11/2017 | | | | | | | 0.0135 (J) | |
| 10/12/2017 | | | | | | | | 0.0401 |
| 10/16/2017 | | | | | <0.04 | | | |
| 11/20/2017 | | | | | | | 0.0251 (J) | 0.156 |
| 1/10/2018 | | | | | | | | 0.15 |
| 1/11/2018 | | | | | | | 0.0255 (J) | |
| 2/19/2018 | | | | | <0.04 | | | 0.146 |
| 2/20/2018 | | | | | | | <0.04 | |
| 4/2/2018 | | | | 0.013 (J) | | | | |
| 4/3/2018 | | | | | | | 0.033 (J) | 0.12 |
| 6/5/2018 | | | | | | | | |
| 6/6/2018 | | | | | | | | |
| 6/7/2018 | | | | | | <0.04 | | |
| 6/8/2018 | | | | | | | | |
| 6/11/2018 | | | 0.9 | | | | | |
| 6/12/2018 | 2.8 | 2.9 | | | | | | |
| 6/13/2018 | | | | | | | | |
| 6/28/2018 | | | | | | | 0.053 | 0.16 |
| 8/6/2018 | | | | | <0.04 | | | |
| 8/7/2018 | | | | | | | 0.024 (J) | 0.12 |
| 9/19/2018 | | | | 0.012 (J) | | | | |
| 9/24/2018 | | | | | | | 0.028 (J) | 0.099 |
| 9/25/2018 | | | | | | | | |
| 9/26/2018 | | | | | | | | |
| 10/1/2018 | | | | | | <0.04 | | |
| 10/2/2018 | | | 0.81 | | | | | |
| 10/3/2018 | 2.3 | 2.4 | | | | | | |
| 2/25/2019 | | | | | <0.04 | | | |
| 3/26/2019 | | | | | | | | 0.096 |
| 3/27/2019 | | | | 0.013 (J) | | | 0.017 (J) | |
| 3/28/2019 | | | | | | | | |
| 3/29/2019 | | | | | | 0.0065 (J) | | |
| 4/1/2019 | 2.7 | | 0.85 | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWC-28I | YGWC-28S | YGWC-29IB | YGWA-47 (bg) | GWA-2 (bg) | YGWA-2I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|---|
| 4/2/2019 | | 2.9 | | | | | | |
| 4/3/2019 | | | | | | | | |
| 6/12/2019 | | | | | <0.04 | | | |
| 9/24/2019 | | | | | | 0.0076 (J) | | |
| 9/25/2019 | | | 0.73 | | | | | |
| 9/26/2019 | 2.8 | 2.5 | | | | | | |
| 10/8/2019 | | | | 0.012 (J) | <0.04 | | | |
| 10/9/2019 | | | | | | | 0.017 (J) | 0.079 |
| 3/17/2020 | | | | 0.023 (J) | 0.0051 (J) | | | |
| 3/18/2020 | | | | | | | | |
| 3/19/2020 | 2.4 | 2.5 | | | | 0.0073 (J) | | |
| 3/20/2020 | | | 0.8 | | | | | |
| 3/24/2020 | | | | | | | | 0.088 (J) |
| 3/25/2020 | | | | | | | 0.043 (J) | |
| 9/22/2020 | | | | 0.0076 (J) | 0.0079 (J) | | | |
| 9/23/2020 | | | | | | <0.04 | | |
| 9/24/2020 | 2.1 | 2.6 | 0.84 | | | | 0.037 (J) | 0.087 (J) |
| 9/25/2020 | | | | | | | | |
| 3/1/2021 | | | | 0.013 (J) | | | | |
| 3/2/2021 | | | | | <0.04 | | | |
| 3/3/2021 | 1.8 | 2.3 | 0.62 | | | <0.04 | | |
| 3/4/2021 | | | | | | | 0.033 (J) | 0.078 |
| 8/19/2021 | | | | 0.011 (J) | | | | |
| 8/20/2021 | 2.3 | 2.5 | 0.66 | | <0.04 | | | |
| 8/26/2021 | | | | | | | 0.095 | |
| 8/27/2021 | | | | | | <0.04 | | |
| 9/1/2021 | | | | | | | | |
| 9/3/2021 | | | | | | | | 0.077 |
| 2/8/2022 | 2.4 | 2.4 | 0.71 | 0.015 (J) | <0.04 | | 0.13 | 0.074 |
| 2/9/2022 | | | | | | <0.04 | | |
| 2/10/2022 | | | | | | | | |
| 2/11/2022 | | | | | | | | |
| 8/30/2022 | | | | | <0.04 | <0.04 | | |
| 8/31/2022 | | | | 0.0091 (J) | | | 0.14 | 0.062 |
| 9/1/2022 | 1.8 | 2.2 | 0.71 | | | | | |
| 2/7/2023 | | | | | <0.04 | <0.04 | 0.13 | |
| 2/8/2023 | | | 0.9 | 0.011 (J) | | | | 0.057 |
| 2/9/2023 | 1.8 | 2.3 | | | | | | |
| 8/2/2023 | | | 0.75 | | | | | |
| 8/15/2023 | | | | <0.04 | <0.04 | <0.04 | 0.15 (J) | 0.052 (J) |
| 8/16/2023 | 1.7 | 2.1 | | | | | | |
| 8/17/2023 | | | | | | | | |
| 2/20/2024 | | | | 0.023 (J) | 0.017 (J) | <0.04 | 0.12 | 0.056 |
| 2/21/2024 | 1.6 | 2.3 | | | | | | |
| 2/22/2024 | | | 1.1 | | | | | |
| 2/23/2024 | | | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-1I (bg) | YGWA-3I (bg) | YGWA-1D (bg) | YGWA-14S (bg) | YGWA-4I (bg) | YGWA-30I (bg) | YGWA-5I (bg) | YGWA-3D (bg) | YGWA-5D (bg) |
|---|---|---|---|---|---|---|---|---|---|
| 6/1/2016 | 2.5 | 21 | 12 | | | | | | |
| 6/2/2016 | | | | 1.3 | 8.8 | 1.3 | 2.4 | 28 | 33 |
| 6/6/2016 | | | | | | | | | |
| 6/7/2016 | | | | | | | | | |
| 6/8/2016 | | | | | | | | | |
| 6/9/2016 | | | | | | | | | |
| 7/25/2016 | 2.16 | 20.3 | | | | 1.17 | | | |
| 7/26/2016 | | | 11 | 1.24 | 7.69 | | 2.12 | 24.5 | 32.3 |
| 7/27/2016 | | | | | | | | | |
| 7/28/2016 | | | | | | | | | |
| 8/1/2016 | | | | | | | | | |
| 8/2/2016 | | | | | | | | | |
| 8/30/2016 | | | | | | | | | |
| 8/31/2016 | | | | | | | | | |
| 9/13/2016 | 2.21 | | 11.8 | | | | | | |
| 9/14/2016 | | 19.7 | | | 8.49 | | 2.18 | | 31 |
| 9/15/2016 | | | | 1.17 | | | | 27 | |
| 9/16/2016 | | | | | | | | | |
| 9/19/2016 | | | | | | 1.05 | | | |
| 9/20/2016 | | | | | | | | | |
| 9/21/2016 | | | | | | | | | |
| 11/1/2016 | | 18.4 | 11 | | | 1.14 | | 25.6 | |
| 11/2/2016 | | | | 1.23 | 7.83 | | | | 30.9 |
| 11/3/2016 | | | | | | | | | |
| 11/4/2016 | 2.67 | | | | | | 2.17 (J) | | |
| 11/7/2016 | | | | | | | | | |
| 11/8/2016 | | | | | | | | | |
| 11/14/2016 | | | | | | | | | |
| 11/28/2016 | | | | | | | | | |
| 12/15/2016 | | | | | | | | | |
| 1/10/2017 | | | | 1.24 | | | | | |
| 1/11/2017 | | 20.3 | 11.2 | | | | | 27.5 | |
| 1/12/2017 | | | | | | | 2.37 | | 35.7 |
| 1/13/2017 | | | | | 8.08 | | | | |
| 1/16/2017 | 2.45 | | | | | 1.23 | | | |
| 1/18/2017 | | | | | | | | | |
| 1/19/2017 | | | | | | | | | |
| 2/21/2017 | | | | | | 1.25 | | | |
| 2/22/2017 | | | | | | | | | |
| 2/23/2017 | | | | | | | | | |
| 2/24/2017 | | | | | | | | | |
| 3/1/2017 | | 18.6 | | | | | | | |
| 3/2/2017 | 2.57 | | 11 | | | | | 27.5 | |
| 3/3/2017 | | | | | | | | | |
| 3/6/2017 | | | | | 8.64 | | | | |
| 3/7/2017 | | | | | | | 2.34 | | 32.7 |
| 3/8/2017 | | | | 1.21 | | | | | |
| 4/26/2017 | | 25.6 | | 1.14 | | 1.03 | | 30.4 | |
| 4/27/2017 | 2.38 | | 11.1 | | | | | | |
| 4/28/2017 | | | | | | | | | |
| 5/1/2017 | | | | | 13.4 | | | | 37 |
| 5/2/2017 | | | | | | | 2.17 | | |

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-1I (bg) | YGWA-3I (bg) | YGWA-1D (bg) | YGWA-14S (bg) | YGWA-4I (bg) | YGWA-30I (bg) | YGWA-5I (bg) | YGWA-3D (bg) | YGWA-5D (bg) |
|---|---|---|---|---|---|---|---|---|---|
| 5/3/2017 | | | | | | | | | |
| 5/5/2017 | | | | | | | | | |
| 5/8/2017 | | | | | | | | | |
| 5/26/2017 | | | | | | | | | |
| 6/27/2017 | 2.36 | | 13.8 | | | | 2.13 | | 36.5 |
| 6/28/2017 | | 23.9 | | | | | | 29.8 | |
| 6/29/2017 | | | | | 8.81 | | | | |
| 6/30/2017 | | | | 1.24 | | 1.13 | | | |
| 7/5/2017 | | | | | | | | | |
| 7/7/2017 | | | | | | | | | |
| 7/10/2017 | | | | | | | | | |
| 7/11/2017 | | | | | | | | | |
| 7/17/2017 | | | | | | | | | |
| 10/3/2017 | 2.21 | | 14 | | | | 2.15 | | 30.9 |
| 10/4/2017 | | 22.1 | | | | 1.09 | | 29.7 | |
| 10/5/2017 | | | | 1.11 | 9.29 | | | | |
| 10/6/2017 | | | | | | | | | |
| 10/9/2017 | | | | | | | | | |
| 10/10/2017 | | | | | | | | | |
| 10/11/2017 | | | | | | | | | |
| 10/12/2017 | | | | | | | | | |
| 10/16/2017 | | | | | | | | | |
| 11/20/2017 | | | | | | | | | |
| 1/10/2018 | | | | | | | | | |
| 1/11/2018 | | | | | | | | | |
| 2/19/2018 | | | | | | | | | |
| 2/20/2018 | | | | | | | | | |
| 4/2/2018 | | | | | | | | | |
| 4/3/2018 | | | | | | | | | |
| 6/5/2018 | | | 15.2 (J) | | | | | | |
| 6/6/2018 | 2.3 | | | | | | | | 26.2 |
| 6/7/2018 | | | | | 8.2 | | 2.3 | 29.1 | |
| 6/8/2018 | | 21.9 (J) | | 1.1 | | | | | |
| 6/11/2018 | | | | | | 1.1 | | | |
| 6/12/2018 | | | | | | | | | |
| 6/13/2018 | | | | | | | | | |
| 6/28/2018 | | | | | | | | | |
| 8/6/2018 | | | | | | | | | |
| 8/7/2018 | | | | | | | | | |
| 9/19/2018 | | | | | | | | | |
| 9/24/2018 | | | | | | | | | |
| 9/25/2018 | | | | | | | | | |
| 9/26/2018 | | | | | 9.5 (J) | | 2.3 | | 25.8 |
| 10/1/2018 | 1.8 | 19.7 | 15.1 | 0.99 | | | | 26.9 | |
| 10/2/2018 | | | | | | 1.1 | | | |
| 10/3/2018 | | | | | | | | | |
| 2/25/2019 | | | | | | | | | |
| 3/26/2019 | | | | | | | | | |
| 3/27/2019 | | | | | | | | | |
| 3/28/2019 | 2.2 | | 13.3 (J) | | | | | | |
| 3/29/2019 | | | | 1.1 | | | | | |
| 4/1/2019 | | 20.4 (J) | | | | 1.3 | | 30.1 | |

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-1I (bg) | YGWA-3I (bg) | YGWA-1D (bg) | YGWA-14S (bg) | YGWA-4I (bg) | YGWA-30I (bg) | YGWA-5I (bg) | YGWA-3D (bg) | YGWA-5D (bg) |
|---|---|---|---|---|---|---|---|---|---|
| 4/2/2019 | | | | | | | | | |
| 4/3/2019 | | | | | 8.4 | | 2.8 | | 24.7 (J) |
| 6/12/2019 | | | | | | | | | |
| 9/24/2019 | 2.3 | | 15.8 | | | | 2.5 | | 25.8 |
| 9/25/2019 | | 22.4 | | 1.1 | 9.5 | 1.1 | | 29.5 | |
| 9/26/2019 | | | | | | | | | |
| 10/8/2019 | | | | | | | | | |
| 10/9/2019 | | | | | | | | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 2.1 | | | 1.1 | | | | | |
| 3/19/2020 | | 21.9 | 15 | | | 1.2 | | 31.5 | |
| 3/20/2020 | | | | | | | | | |
| 3/24/2020 | | | | | | | 2.5 | | 26.1 |
| 3/25/2020 | | | | | 10.5 | | | | |
| 9/22/2020 | | | | | 9.6 | | 2.6 | | 27.2 |
| 9/23/2020 | 1.8 | 23.6 | 14.1 | | | | | 28.6 | |
| 9/24/2020 | | | | | | 1.1 | | | |
| 9/25/2020 | | | | 1.3 | | | | | |
| 3/1/2021 | | | | | | 1.2 | | | |
| 3/2/2021 | | | | 1.2 | | | 2.6 | | 1.6 |
| 3/3/2021 | 1.8 | 20.6 | 14.1 | | 7.7 | | | 29.8 | |
| 3/4/2021 | | | | | | | | | |
| 8/19/2021 | 2 | | 14.2 | 1.2 | | 1.2 | | 28.1 | |
| 8/20/2021 | | | | | | | | | |
| 8/26/2021 | | | | | 7.6 | | 2.5 | | 25.2 |
| 8/27/2021 | | 24.7 | | | | | | | |
| 9/1/2021 | | | | | | | | | |
| 9/3/2021 | | | | | | | | | |
| 2/8/2022 | | | | | | | | | |
| 2/9/2022 | 2.1 | 23.7 | 14.9 | | | | | 30.3 | |
| 2/10/2022 | | | | 1.3 | | | 2.5 | | 24.8 |
| 2/11/2022 | | | | | 7.5 | 1.5 | | | |
| 8/30/2022 | | | 14.9 | | | | 2.5 | | 24.8 |
| 8/31/2022 | 1.9 | 23.5 | | 1.3 | 8.9 | 1.3 | | 28.7 | |
| 9/1/2022 | | | | | | | | | |
| 2/7/2023 | 2.2 | | 15 | | | | | | 26.6 |
| 2/8/2023 | | 23.3 | | 1.5 | | 1.3 | | 28.9 | |
| 2/9/2023 | | | | | 9.6 | | 2.8 | | |
| 8/2/2023 | | | | | | | | | |
| 8/15/2023 | 1.8 | | 13.5 | 1.3 | 7.8 | | 2.6 | 27.4 | 25 |
| 8/16/2023 | | 24.9 | | | | 1.4 | | | |
| 8/17/2023 | | | | | | | | | |
| 2/20/2024 | 2.2 | 23.7 | 15.3 | | 9.9 | 1.3 | 2.7 | 30.7 | 27.2 |
| 2/21/2024 | | | | | | | | | |
| 2/22/2024 | | | | | | | | | |
| 2/23/2024 | | | | 1.6 | | | | | |

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-17S (bg) | YGWA-21I (bg) | YGWA-20S (bg) | YGWC-26S | YGWC-27I | YGWC-26I | YGWC-27S |
|---|---|---|---|---|---|---|---|---|---|
| 6/1/2016 | | | | | | | | | |
| 6/2/2016 | | | | | | | | | |
| 6/6/2016 | 6.2 | 1.4 | | | | | | | |
| 6/7/2016 | | | 2.2 | 3.7 | 2.3 | | | | |
| 6/8/2016 | | | | | | 13 | 25 | 15 | 44 |
| 6/9/2016 | | | | | | | | | |
| 7/25/2016 | | | | | | | | | |
| 7/26/2016 | | | | | | | | | |
| 7/27/2016 | 4.73 | 1.19 | 2 | | 2.08 | | | | |
| 7/28/2016 | | | | 3.15 | | | | | |
| 8/1/2016 | | | | | | 12.2 | 21.4 | 14.5 | 36.3 |
| 8/2/2016 | | | | | | | | | |
| 8/30/2016 | | | | | | | | | |
| 8/31/2016 | | | | | | | | | |
| 9/13/2016 | | | | | | | | | |
| 9/14/2016 | | | | | | | | | |
| 9/15/2016 | | | | | | | | | |
| 9/16/2016 | | 1.5 | 1.97 | | | | | | |
| 9/19/2016 | 4.76 | | | 3.17 | 1.97 | | | | |
| 9/20/2016 | | | | | | 12.2 | 26.3 | 15.3 | 39.5 |
| 9/21/2016 | | | | | | | | | |
| 11/1/2016 | | | | | | | | | |
| 11/2/2016 | | | | | 2.13 | | | | |
| 11/3/2016 | 5.25 | 1.31 | 1.99 | 3.4 | | | | | |
| 11/4/2016 | | | | | | | | | |
| 11/7/2016 | | | | | | 12.1 | 26.1 | 13.8 | 34.9 |
| 11/8/2016 | | | | | | | | | |
| 11/14/2016 | | | | | | | | | |
| 11/28/2016 | | | | | | | | | |
| 12/15/2016 | | | | | | | | | |
| 1/10/2017 | | | | | | | | | |
| 1/11/2017 | 4.74 | 1.25 | 2.28 | | | | | | |
| 1/12/2017 | | | | | | | | | |
| 1/13/2017 | | | | 4.98 | 2.45 | | | | |
| 1/16/2017 | | | | | | | | | |
| 1/18/2017 | | | | | | 11.5 | 25.6 | 15.1 | |
| 1/19/2017 | | | | | | | | | 37 |
| 2/21/2017 | | | | | | 11.7 | | 14.6 | |
| 2/22/2017 | | | | | | | | | 37.6 |
| 2/23/2017 | | | | | | | 28.2 | | |
| 2/24/2017 | | | | | | | | | |
| 3/1/2017 | 5.37 | 1.26 | | | | | | | |
| 3/2/2017 | | | 2.15 | | | | | | |
| 3/3/2017 | | | | | | | | | |
| 3/6/2017 | | | | 6.28 | 2.48 | | | | |
| 3/7/2017 | | | | | | | | | |
| 3/8/2017 | | | | | | | | | |
| 4/26/2017 | 4.28 | 1.05 | | 6.65 | 2.3 | | | | |
| 4/27/2017 | | | | | | | | | |
| 4/28/2017 | | | | | | | | | |
| 5/1/2017 | | | | | | | | | |
| 5/2/2017 | | | 1.95 | | | | | | |

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-17S (bg) | YGWA-21I (bg) | YGWA-20S (bg) | YGWC-26S | YGWC-27I | YGWC-26I | YGWC-27S |
|---|---|---|---|---|---|---|---|---|---|
| 5/3/2017 | | | | | | 11.9 | | | |
| 5/5/2017 | | | | | | | | | |
| 5/8/2017 | | | | | | | 27.2 | 15.2 | 35.7 |
| 5/26/2017 | | | | | | | | | |
| 6/27/2017 | | | | | | | | | |
| 6/28/2017 | 4.95 | 1.06 | | | | | | | |
| 6/29/2017 | | | 2.02 | 6.04 | 2.54 | | | | |
| 6/30/2017 | | | | | | | 27.2 | | 36.2 |
| 7/5/2017 | | | | | | | | | |
| 7/7/2017 | | | | | | | | | |
| 7/10/2017 | | | | | | 12.7 | | 17.4 | |
| 7/11/2017 | | | | | | | | | |
| 7/17/2017 | | | | | | | | | |
| 10/3/2017 | | | | 8.28 | | | | | |
| 10/4/2017 | | 1.1 | 2.03 | | 2.25 | | | | |
| 10/5/2017 | 5.28 | | | | | | | | |
| 10/6/2017 | | | | | | | | | 39.8 |
| 10/9/2017 | | | | | | | 27.3 | | |
| 10/10/2017 | | | | | | 11.4 | | 15.5 | |
| 10/11/2017 | | | | | | | | | |
| 10/12/2017 | | | | | | | | | |
| 10/16/2017 | | | | | | | | | |
| 11/20/2017 | | | | | | | | | |
| 1/10/2018 | | | | | | | | | |
| 1/11/2018 | | | | | | | | | |
| 2/19/2018 | | | | | | | | | |
| 2/20/2018 | | | | | | | | | |
| 4/2/2018 | | | | | | | | | |
| 4/3/2018 | | | | | | | | | |
| 6/5/2018 | | | | 9.1 | | | | | |
| 6/6/2018 | | | | | 2.3 | | | | |
| 6/7/2018 | 4.8 | | | | | | | | |
| 6/8/2018 | | | | | | | | | |
| 6/11/2018 | | 1.4 | 2.1 | | | | | | |
| 6/12/2018 | | | | | | | | | 36.2 |
| 6/13/2018 | | | | | | 12.5 | 29.4 | 15.5 | |
| 6/28/2018 | | | | | | | | | |
| 8/6/2018 | | | | | | | | | |
| 8/7/2018 | | | | | | | | | |
| 9/19/2018 | | | | | | | | | |
| 9/24/2018 | | | | | | | | | |
| 9/25/2018 | 4.6 | 1 | 2.1 | 10.4 (J) | 2.3 | | | | |
| 9/26/2018 | | | | | | | | | |
| 10/1/2018 | | | | | | | | | |
| 10/2/2018 | | | | | | 12.4 (J) | 29.2 | 14.7 | 39.1 |
| 10/3/2018 | | | | | | | | | |
| 2/25/2019 | | | | | | | | | |
| 3/26/2019 | | | | | | | | | |
| 3/27/2019 | | | | | | | | | |
| 3/28/2019 | | | | | | | | | |
| 3/29/2019 | | | | | | | | | |
| 4/1/2019 | | | | | | | 27.4 | | 38 |

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-17S (bg) | YGWA-21I (bg) | YGWA-20S (bg) | YGWC-26S | YGWC-27I | YGWC-26I | YGWC-27S |
|---|---|---|---|---|---|---|---|---|---|
| 4/2/2019 | | | 2.5 | 8.8 | | 11.9 (J) | | 16.1 (J) | |
| 4/3/2019 | 5.3 | 1.2 | | | 2.9 | | | | |
| 6/12/2019 | | | | | | | | | |
| 9/24/2019 | | | | 7.7 | | | | | |
| 9/25/2019 | | | 2.6 | | 2.4 | 11.6 | | 15.6 | |
| 9/26/2019 | 4.9 | 1.1 | | | | | 24.2 | | 37.5 |
| 10/8/2019 | | | | | | | | | |
| 10/9/2019 | | | | | | | | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | | | | | | | | | |
| 3/19/2020 | | | | | | 13 | | | |
| 3/20/2020 | | | | | | | 30.3 | 17.1 | 42.1 |
| 3/24/2020 | 5.3 | 1 | 2.7 | 6 | 2.6 | | | | |
| 3/25/2020 | | | | | | | | | |
| 9/22/2020 | | | | | | | | | |
| 9/23/2020 | 5.2 | 0.91 (J) | 2.6 | | | | | | |
| 9/24/2020 | | | | 7.8 | 2.6 | 11.3 | 27.9 | 16.9 | 38.6 |
| 9/25/2020 | | | | | | | | | |
| 3/1/2021 | | | | | | | | | |
| 3/2/2021 | | | | | | 12.9 | | | |
| 3/3/2021 | 5.2 | 0.96 (J) | 2.5 | | 2.4 | | 25.7 | 16.1 | 30.2 |
| 3/4/2021 | | | | 8.7 | | | | | |
| 8/19/2021 | | | | | | 11.5 | | | |
| 8/20/2021 | | | | | | | 25.7 | 17.2 | 29.9 |
| 8/26/2021 | | 0.98 (J) | | | | | | | |
| 8/27/2021 | 5.1 | | 2.7 | | 2.4 | | | | |
| 9/1/2021 | | | | 9.5 | | | | | |
| 9/3/2021 | | | | | | | | | |
| 2/8/2022 | | | | | | | | | 27.2 |
| 2/9/2022 | 5.1 | 0.87 (J) | 2.8 | 9.8 | 2.3 | | | | |
| 2/10/2022 | | | | | | 11.6 | 27.4 | 16.4 | |
| 2/11/2022 | | | | | | | | | |
| 8/30/2022 | 5.7 | 0.77 (J) | 3 | 7.3 | | | | | |
| 8/31/2022 | | | | | 2.4 | 10.8 | | 16.4 | |
| 9/1/2022 | | | | | | | 28.2 | | 21.3 |
| 2/7/2023 | 5.5 | 0.79 (J) | 2.9 | 7.5 | 2.4 | | | | |
| 2/8/2023 | | | | | | | | | |
| 2/9/2023 | | | | | | 10.7 | 26.9 | 15.8 | 20.1 |
| 8/2/2023 | | | | | | | | | |
| 8/15/2023 | 5.1 | 0.8 (J) | 2.9 | 6.1 | 2.2 | | | | |
| 8/16/2023 | | | | | | | | | |
| 8/17/2023 | | | | | | 10.8 | 25.4 | 15.6 | 20.8 |
| 2/20/2024 | 5.6 | | 3.2 | 7 | 2.5 | | | | |
| 2/21/2024 | | | | | | | 27.7 | | 20.4 |
| 2/22/2024 | | | | | | 11 | | 16.7 | |
| 2/23/2024 | | 0.84 (J) | | | | | | | |

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWC-28I | YGWC-28S | YGWC-29IB | YGWA-47 (bg) | GWA-2 (bg) | YGWA-2I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|---|
| 6/1/2016 | | | | | | | | |
| 6/2/2016 | | | | | | | | |
| 6/6/2016 | | | | | | | | |
| 6/7/2016 | | | | | | | | |
| 6/8/2016 | | | | | | | | |
| 6/9/2016 | 36 | 26 | 12 | | | | | |
| 7/25/2016 | | | | | | | | |
| 7/26/2016 | | | | | | | | |
| 7/27/2016 | | | | | | | | |
| 7/28/2016 | | | | | | | | |
| 8/1/2016 | | | | | | | | |
| 8/2/2016 | 35.5 | 25.8 | 11.7 | | | | | |
| 8/30/2016 | | | | 20.9 | | | | |
| 8/31/2016 | | | | | 9.31 | | | |
| 9/13/2016 | | | | | | | | |
| 9/14/2016 | | | | | | 23.5 | | |
| 9/15/2016 | | | | | | | | |
| 9/16/2016 | | | | | | | | |
| 9/19/2016 | | | | | | | | |
| 9/20/2016 | | | | | | | | |
| 9/21/2016 | 33.2 | 24.9 | 11.1 | | | | | |
| 11/1/2016 | | | | | | | | |
| 11/2/2016 | | | | | | | | |
| 11/3/2016 | | | | | | | | |
| 11/4/2016 | | | | | | 23.7 | | |
| 11/7/2016 | | 25.1 | 11.4 | | | | | |
| 11/8/2016 | 33.8 | | | | | | | |
| 11/14/2016 | | | | 18.6 | | | | |
| 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 | | |
| 1/18/2017 | 33.4 | 26.1 | | | | | | |
| 1/19/2017 | | | 12 | | | | | |
| 2/21/2017 | | 29 | | | | | | |
| 2/22/2017 | 33.8 | | 11.2 | | 10.4 | | | |
| 2/23/2017 | | | | | | | | |
| 2/24/2017 | | | | 16.1 | | | | |
| 3/1/2017 | | | | | | | | |
| 3/2/2017 | | | | | | | | |
| 3/3/2017 | | | | | | 25.1 | | |
| 3/6/2017 | | | | | | | | |
| 3/7/2017 | | | | | | | | |
| 3/8/2017 | | | | | | | | |
| 4/26/2017 | | | | | | | | |
| 4/27/2017 | | | | | | | | |
| 4/28/2017 | | | | | | 30.7 | | |
| 5/1/2017 | | | | | | | | |
| 5/2/2017 | | | | | | | | |

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWC-28I | YGWC-28S | YGWC-29IB | YGWA-47 (bg) | GWA-2 (bg) | YGWA-2I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|---|
| 5/3/2017 | | | | | | | | |
| 5/5/2017 | 33.5 | 28.1 | | | | | | |
| 5/8/2017 | | | 11.2 | 14.6 | 14.2 | | | |
| 5/26/2017 | | | | | | 26.2 | | |
| 6/27/2017 | | | | | | | | |
| 6/28/2017 | | | | | | 26.1 | | |
| 6/29/2017 | | | | | | | | |
| 6/30/2017 | | | | | | | | |
| 7/5/2017 | 33.4 | | 11.9 | | | | | |
| 7/7/2017 | | 28.6 | | | | | | |
| 7/10/2017 | | | | | | | | |
| 7/11/2017 | | | | 14.3 | | | | |
| 7/17/2017 | | | | | 14.1 | | | |
| 10/3/2017 | | | | | | 26.7 | | |
| 10/4/2017 | | | | | | | | |
| 10/5/2017 | 36.4 | | 12 | | | | | |
| 10/6/2017 | | | | | | | | |
| 10/9/2017 | | 27.3 | | | | | | |
| 10/10/2017 | | | | 12.1 | | | | |
| 10/11/2017 | | | | | | | 2.74 | |
| 10/12/2017 | | | | | | | | 2.9 |
| 10/16/2017 | | | | | 13.6 | | | |
| 11/20/2017 | | | | | | | 1.81 | 10.4 |
| 1/10/2018 | | | | | | | | 10.2 |
| 1/11/2018 | | | | | | | 1.54 | |
| 2/19/2018 | | | | | <25 | | | <25 |
| 2/20/2018 | | | | | | | 1.71 | |
| 4/2/2018 | | | | <25 | | | | |
| 4/3/2018 | | | | | | | 1.4 | 6.3 |
| 6/5/2018 | | | | | | | | |
| 6/6/2018 | | | | | | | | |
| 6/7/2018 | | | | | | 25 | | |
| 6/8/2018 | | | | | | | | |
| 6/11/2018 | | | 12.1 | | | | | |
| 6/12/2018 | 33.4 | 26.4 | | | | | | |
| 6/13/2018 | | | | | | | | |
| 6/28/2018 | | | | | | | 1.4 | 6.7 |
| 8/6/2018 | | | | | 11.4 (J) | | | |
| 8/7/2018 | | | | | | | 1.2 | 6.3 |
| 9/19/2018 | | | | 11.1 (J) | | | | |
| 9/24/2018 | | | | | | | 1.1 | 5.7 |
| 9/25/2018 | | | | | | | | |
| 9/26/2018 | | | | | | | | |
| 10/1/2018 | | | | | | 25 | | |
| 10/2/2018 | | | 11.7 (J) | | | | | |
| 10/3/2018 | 32.6 | 25.8 | | | | | | |
| 2/25/2019 | | | | | 12.7 (J) | | | |
| 3/26/2019 | | | | | | | | 5.6 |
| 3/27/2019 | | | | 10.8 (J) | | | 1.5 | |
| 3/28/2019 | | | | | | | | |
| 3/29/2019 | | | | | | 23.5 (J) | | |
| 4/1/2019 | 33.8 | | 11.9 (J) | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWC-28I | YGWC-28S | YGWC-29IB | YGWA-47 (bg) | GWA-2 (bg) | YGWA-2I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|---|
| 4/2/2019 | | 25.7 | | | | | | |
| 4/3/2019 | | | | | | | | |
| 6/12/2019 | | | | | 18.9 | | | |
| 9/24/2019 | | | | | | 26.4 | | |
| 9/25/2019 | | | 10.7 | | | | | |
| 9/26/2019 | 32 | 26.1 | | | | | | |
| 10/8/2019 | | | | 9.7 | 28.3 | | | |
| 10/9/2019 | | | | | | | 2.4 | 4.9 |
| 3/17/2020 | | | | 14.8 | 24.3 | | | |
| 3/18/2020 | | | | | | | | |
| 3/19/2020 | 37.3 | 30.4 | | | | 27.4 | | |
| 3/20/2020 | | | 12.7 | | | | | |
| 3/24/2020 | | | | | | | | 4.8 |
| 3/25/2020 | | | | | | | 2.7 | |
| 9/22/2020 | | | | 10.1 | 31 | | | |
| 9/23/2020 | | | | | | 26.3 | | |
| 9/24/2020 | 34.3 | 30.8 | 12.4 | | | | 3.7 | 4.4 |
| 9/25/2020 | | | | | | | | |
| 3/1/2021 | | | | 10.3 | | | | |
| 3/2/2021 | | | | | 34.2 | | | |
| 3/3/2021 | 30.9 | 28.4 | 9.5 | | | 25.6 | | |
| 3/4/2021 | | | | | | | 8.2 | 4.6 |
| 8/19/2021 | | | | 9.6 | | | | |
| 8/20/2021 | 33.1 | 27.8 | 10.2 | | 26.5 | | | |
| 8/26/2021 | | | | | | | 14.1 | |
| 8/27/2021 | | | | | | 22.6 | | |
| 9/1/2021 | | | | | | | | |
| 9/3/2021 | | | | | | | | 5.6 |
| 2/8/2022 | 31.8 | 26.7 | 9.3 | 9.4 | 25.6 | | 15.2 | 6 |
| 2/9/2022 | | | | | | 23.4 | | |
| 2/10/2022 | | | | | | | | |
| 2/11/2022 | | | | | | | | |
| 8/30/2022 | | | | | 23.5 | 25.4 | | |
| 8/31/2022 | | | | 9.6 | | | 16.3 | 6.2 |
| 9/1/2022 | 26.3 | 33.1 | 11 | | | | | |
| 2/7/2023 | | | | | 22.3 | 25.6 | 16.1 | |
| 2/8/2023 | | | 11.9 | 9.2 | | | | 5.9 |
| 2/9/2023 | 27.7 | 33.1 | | | | | | |
| 8/2/2023 | | | 11.8 | | | | | |
| 8/15/2023 | | | | 9.6 | 20.3 | 23.2 | 17.2 | 5.3 |
| 8/16/2023 | 27.3 | 31.2 | | | | | | |
| 8/17/2023 | | | | | | | | |
| 2/20/2024 | | | | 10.3 | 22.8 | 28.2 | 16.9 | 5.6 |
| 2/21/2024 | 27.8 | 31 | | | | | | |
| 2/22/2024 | | | 11.5 | | | | | |
| 2/23/2024 | | | | | | | | |

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-1I (bg) | YGWA-3I (bg) | YGWA-1D (bg) | YGWA-14S (bg) | YGWA-4I (bg) | YGWA-30I (bg) | YGWA-5I (bg) | YGWA-3D (bg) | YGWA-5D (bg) |
|---|---|---|---|---|---|---|---|---|---|
| 6/1/2016 | 1.6 | 1.3 | 1.3 | | | | | | |
| 6/2/2016 | | | | 4.1 | 3.7 | 1.9 | 4.3 | 1.4 | 7.2 |
| 6/6/2016 | | | | | | | | | |
| 6/7/2016 | | | | | | | | | |
| 6/8/2016 | | | | | | | | | |
| 6/9/2016 | | | | | | | | | |
| 7/25/2016 | 1.4 | 1.3 | | | | 1.7 | | | |
| 7/26/2016 | | | 1.2 | 4 | 3.6 | | 4.4 | 1.6 | 6.6 |
| 7/27/2016 | | | | | | | | | |
| 7/28/2016 | | | | | | | | | |
| 8/1/2016 | | | | | | | | | |
| 8/2/2016 | | | | | | | | | |
| 8/30/2016 | | | | | | | | | |
| 8/31/2016 | | | | | | | | | |
| 9/13/2016 | 1.3 | | 1.1 | | | | | | |
| 9/14/2016 | | 1.3 | | | 3.4 | | 3.8 | | 6.6 |
| 9/15/2016 | | | | 4.2 | | | | 1.5 | |
| 9/16/2016 | | | | | | | | | |
| 9/19/2016 | | | | | | 1.6 | | | |
| 9/20/2016 | | | | | | | | | |
| 9/21/2016 | | | | | | | | | |
| 11/1/2016 | | 1.4 | 1.3 | | | 1.8 | | 1.7 | |
| 11/2/2016 | | | | 4.9 | 4.5 | | | | 7.6 |
| 11/3/2016 | | | | | | | | | |
| 11/4/2016 | 1.6 | | | | | | 4.8 | | |
| 11/7/2016 | | | | | | | | | |
| 11/8/2016 | | | | | | | | | |
| 11/14/2016 | | | | | | | | | |
| 11/28/2016 | | | | | | | | | |
| 12/15/2016 | | | | | | | | | |
| 1/10/2017 | | | | 4.1 | | | | | |
| 1/11/2017 | | 1.1 | 1.1 | | | | | 1.2 | |
| 1/12/2017 | | | | | | | 3.8 | | 6.8 |
| 1/13/2017 | | | | | 4.2 | | | | |
| 1/16/2017 | 1.4 | | | | | 1.7 | | | |
| 1/18/2017 | | | | | | | | | |
| 1/19/2017 | | | | | | | | | |
| 2/21/2017 | | | | | | 1.7 | | | |
| 2/22/2017 | | | | | | | | | |
| 2/23/2017 | | | | | | | | | |
| 2/24/2017 | | | | | | | | | |
| 3/1/2017 | | 1.1 | | | | | | | |
| 3/2/2017 | 1.3 | | 1 | | | | | 1.2 | |
| 3/3/2017 | | | | | | | | | |
| 3/6/2017 | | | | | 3.6 | | | | |
| 3/7/2017 | | | | | | | 4.5 | | 6.8 |
| 3/8/2017 | | | | 4.2 | | | | | |
| 4/26/2017 | | 1.1 | | 4.1 | | 1.7 | | 1.2 | |
| 4/27/2017 | 1.3 | | 1 | | | | | | |
| 4/28/2017 | | | | | | | | | |
| 5/1/2017 | | | | | 4.3 | | | | 7.2 |
| 5/2/2017 | | | | | | | 4.6 | | |

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-1I (bg) | YGWA-3I (bg) | YGWA-1D (bg) | YGWA-14S (bg) | YGWA-4I (bg) | YGWA-30I (bg) | YGWA-5I (bg) | YGWA-3D (bg) | YGWA-5D (bg) |
|---|---|---|---|---|---|---|---|---|---|
| 5/3/2017 | | | | | | | | | |
| 5/5/2017 | | | | | | | | | |
| 5/8/2017 | | | | | | | | | |
| 5/26/2017 | | | | | | | | | |
| 6/27/2017 | 1.4 | | 1.1 | | | | 4.3 | | 7 |
| 6/28/2017 | | 1.2 | | | | | | 1.3 | |
| 6/29/2017 | | | | | 4.2 | | | | |
| 6/30/2017 | | | | 3.7 | | 1.8 | | | |
| 7/5/2017 | | | | | | | | | |
| 7/7/2017 | | | | | | | | | |
| 7/10/2017 | | | | | | | | | |
| 7/11/2017 | | | | | | | | | |
| 7/17/2017 | | | | | | | | | |
| 10/3/2017 | 1.7 | | 1.1 | | | | 4.2 | | 6.5 |
| 10/4/2017 | | 1.2 | | | | 1.8 | | 1.5 | |
| 10/5/2017 | | | | 3.8 | 4.7 | | | | |
| 10/6/2017 | | | | | | | | | |
| 10/9/2017 | | | | | | | | | |
| 10/10/2017 | | | | | | | | | |
| 10/11/2017 | | | | | | | | | |
| 10/12/2017 | | | | | | | | | |
| 10/16/2017 | | | | | | | | | |
| 11/20/2017 | | | | | | | | | |
| 1/10/2018 | | | | | | | | | |
| 1/11/2018 | | | | | | | | | |
| 2/19/2018 | | | | | | | | | |
| 2/20/2018 | | | | | | | | | |
| 4/2/2018 | | | | | | | | | |
| 4/3/2018 | | | | | | | | | |
| 6/5/2018 | | | 1.1 | | | | | | |
| 6/6/2018 | 1.4 | | | | | | | | 4.7 |
| 6/7/2018 | | | | | 4.4 | | 4.5 | 1.2 | |
| 6/8/2018 | | 1.2 | | 3.4 | | | | | |
| 6/11/2018 | | | | | | 2 | | | |
| 6/12/2018 | | | | | | | | | |
| 6/13/2018 | | | | | | | | | |
| 6/28/2018 | | | | | | | | | |
| 8/6/2018 | | | | | | | | | |
| 8/7/2018 | | | | | | | | | |
| 9/19/2018 | | | | | | | | | |
| 9/24/2018 | | | | | | | | | |
| 9/25/2018 | | | | | | | | | |
| 9/26/2018 | | | | | 4.8 | | 5.1 | | 4.8 |
| 10/1/2018 | 1.4 | 1.2 | 1.1 | 3.8 | | | | 1.5 | |
| 10/2/2018 | | | | | | 1.8 | | | |
| 10/3/2018 | | | | | | | | | |
| 2/25/2019 | | | | | | | | | |
| 3/26/2019 | | | | | | | | | |
| 3/27/2019 | | | | | | | | | |
| 3/28/2019 | 1.5 | | 1.4 | | | | | | |
| 3/29/2019 | | | | 4.2 | | | | | |
| 4/1/2019 | | 1.1 | | | | 1.7 | | 1.2 | |

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-1I (bg) | YGWA-3I (bg) | YGWA-1D (bg) | YGWA-14S (bg) | YGWA-4I (bg) | YGWA-30I (bg) | YGWA-5I (bg) | YGWA-3D (bg) | YGWA-5D (bg) |
|---|---|---|---|---|---|---|---|---|---|
| 4/2/2019 | | | | | | | | | |
| 4/3/2019 | | | | | 4.3 | | 4.2 | | 4 |
| 6/12/2019 | | | | | | | | | |
| 9/24/2019 | 1.3 | | 1.1 | | | | 4.5 | | 3.7 |
| 9/25/2019 | | 1.1 | | 4.8 | 4.5 | 1.6 | | 1.1 | |
| 9/26/2019 | | | | | | | | | |
| 10/8/2019 | | | | | | | | | |
| 10/9/2019 | | | | | | | | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 1.4 | | | 5.2 | | | | | |
| 3/19/2020 | | 1.1 | 1.1 | | | 1.8 | | 1.2 | |
| 3/20/2020 | | | | | | | | | |
| 3/24/2020 | | | | | | | 4.3 | | 3.5 |
| 3/25/2020 | | | | | 3.9 | | | | |
| 9/22/2020 | | | | | 4.5 | | 4.2 | | 3.6 |
| 9/23/2020 | 1.2 | 1 | 0.99 (J) | | | | | 1.1 | |
| 9/24/2020 | | | | | | 1.5 | | | |
| 9/25/2020 | | | | 5.3 | | | | | |
| 3/1/2021 | | | | | | 1.6 | | | |
| 3/2/2021 | | | | 4.9 | | | 4.3 | | 3.2 |
| 3/3/2021 | 1.2 | 0.99 (J) | 0.96 (J) | | 4.1 | | | 1.1 | |
| 3/4/2021 | | | | | | | | | |
| 8/19/2021 | 1.3 | | 1.1 | 5 | | 1.6 | | 1.1 | |
| 8/20/2021 | | | | | | | | | |
| 8/26/2021 | | | | | 4.4 | | 4.3 | | 3.4 |
| 8/27/2021 | | 1.1 | | | | | | | |
| 9/1/2021 | | | | | | | | | |
| 9/3/2021 | | | | | | | | | |
| 2/8/2022 | | | | | | | | | |
| 2/9/2022 | 1.3 | 1.1 | 1 | | | | | 1.1 | |
| 2/10/2022 | | | | 4.7 | | | 4.4 | | 3.2 |
| 2/11/2022 | | | | | 4.1 | 2.1 | | | |
| 8/30/2022 | | | 1.3 | | | | 4.4 | | 3.5 |
| 8/31/2022 | 1.5 | 1.3 | | 4.6 | 4.4 | 1.8 | | 1.3 | |
| 9/1/2022 | | | | | | | | | |
| 2/7/2023 | 1.5 | | 1.3 | | | | | | 3.3 |
| 2/8/2023 | | 1.1 | | 4.9 | | 1.6 | | 1.2 | |
| 2/9/2023 | | | | | 4.5 | | 5 | | |
| 8/2/2023 | | | | | | | | | |
| 8/15/2023 | 1.4 | | 1.1 | 4.1 | 4.4 | | 4.1 | 1.1 | 3.1 |
| 8/16/2023 | | 1.1 | | | | 1.5 | | | |
| 8/17/2023 | | | | | | | | | |
| 2/20/2024 | 1.2 | 1.1 | 1 | | 4.6 | 1.4 | 4.8 | 1.1 | 3.2 |
| 2/21/2024 | | | | | | | | | |
| 2/22/2024 | | | | | | | | | |
| 2/23/2024 | | | | 4.8 | | | | | |

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-17S (bg) | YGWA-21I (bg) | YGWA-20S (bg) | YGWC-26S | YGWC-27I | YGWC-26I | YGWC-27S |
|---|---|---|---|---|---|---|---|---|---|
| 6/1/2016 | | | | | | | | | |
| 6/2/2016 | | | | | | | | | |
| 6/6/2016 | 6.8 | 6.4 | | | | | | | |
| 6/7/2016 | | | 4.5 | 2.8 | 1.9 | | | | |
| 6/8/2016 | | | | | | 18 | 14 | 19 | 22 |
| 6/9/2016 | | | | | | | | | |
| 7/25/2016 | | | | | | | | | |
| 7/26/2016 | | | | | | | | | |
| 7/27/2016 | 6.7 | 6.2 | 4.5 | | 1.9 | | | | |
| 7/28/2016 | | | | 2.6 | | | | | |
| 8/1/2016 | | | | | | 16 | 13 | 17 | 21 |
| 8/2/2016 | | | | | | | | | |
| 8/30/2016 | | | | | | | | | |
| 8/31/2016 | | | | | | | | | |
| 9/13/2016 | | | | | | | | | |
| 9/14/2016 | | | | | | | | | |
| 9/15/2016 | | | | | | | | | |
| 9/16/2016 | | 6.1 | 4.5 | | | | | | |
| 9/19/2016 | 7 | | | 2.4 | 1.9 | | | | |
| 9/20/2016 | | | | | | 18 | 13 | 18 | 22 |
| 9/21/2016 | | | | | | | | | |
| 11/1/2016 | | | | | | | | | |
| 11/2/2016 | | | | | 2.6 | | | | |
| 11/3/2016 | 7.5 | 7.4 | 5.4 | 2.9 | | | | | |
| 11/4/2016 | | | | | | | | | |
| 11/7/2016 | | | | | | 16 | 14 | 17 | 24 |
| 11/8/2016 | | | | | | | | | |
| 11/14/2016 | | | | | | | | | |
| 11/28/2016 | | | | | | | | | |
| 12/15/2016 | | | | | | | | | |
| 1/10/2017 | | | | | | | | | |
| 1/11/2017 | 6.5 | 6.1 | 4.7 | | | | | | |
| 1/12/2017 | | | | | | | | | |
| 1/13/2017 | | | | 2.5 | 2.3 | | | | |
| 1/16/2017 | | | | | | | | | |
| 1/18/2017 | | | | | | 17 | 14 | 19 | |
| 1/19/2017 | | | | | | | | | 22 |
| 2/21/2017 | | | | | | 16 | | 18 | |
| 2/22/2017 | | | | | | | | | 21 |
| 2/23/2017 | | | | | | | 14 | | |
| 2/24/2017 | | | | | | | | | |
| 3/1/2017 | 6.9 | 6 | | | | | | | |
| 3/2/2017 | | | 4.8 | | | | | | |
| 3/3/2017 | | | | | | | | | |
| 3/6/2017 | | | | 2.1 | 1.9 | | | | |
| 3/7/2017 | | | | | | | | | |
| 3/8/2017 | | | | | | | | | |
| 4/26/2017 | 7 | 6.5 | | 2.1 | 2 | | | | |
| 4/27/2017 | | | | | | | | | |
| 4/28/2017 | | | | | | | | | |
| 5/1/2017 | | | | | | | | | |
| 5/2/2017 | | | 4.6 | | | | | | |

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-17S (bg) | YGWA-21I (bg) | YGWA-20S (bg) | YGWC-26S | YGWC-27I | YGWC-26I | YGWC-27S |
|---|---|---|---|---|---|---|---|---|---|
| 5/3/2017 | | | | | | 17 | | | |
| 5/5/2017 | | | | | | | | | |
| 5/8/2017 | | | | | | | 14 | 18 | 22 |
| 5/26/2017 | | | | | | | | | |
| 6/27/2017 | | | | | | | | | |
| 6/28/2017 | 7 | 6.4 | | | | | | | |
| 6/29/2017 | | | 4.5 | 2.8 | 2.6 | | | | |
| 6/30/2017 | | | | | | | 14 | | 21 |
| 7/5/2017 | | | | | | | | | |
| 7/7/2017 | | | | | | | | | |
| 7/10/2017 | | | | | | 15 | | 19 | |
| 7/11/2017 | | | | | | | | | |
| 7/17/2017 | | | | | | | | | |
| 10/3/2017 | | | | 2.2 | | | | | |
| 10/4/2017 | | 6.8 | 4.7 | | 2.6 | | | | |
| 10/5/2017 | 7 | | | | | | | | |
| 10/6/2017 | | | | | | | | | 21 |
| 10/9/2017 | | | | | | | 14 | | |
| 10/10/2017 | | | | | | 15 | | 19 | |
| 10/11/2017 | | | | | | | | | |
| 10/12/2017 | | | | | | | | | |
| 10/16/2017 | | | | | | | | | |
| 11/20/2017 | | | | | | | | | |
| 1/10/2018 | | | | | | | | | |
| 1/11/2018 | | | | | | | | | |
| 2/19/2018 | | | | | | | | | |
| 2/20/2018 | | | | | | | | | |
| 4/2/2018 | | | | | | | | | |
| 4/3/2018 | | | | | | | | | |
| 6/5/2018 | | | | 1.7 | | | | | |
| 6/6/2018 | | | | | 2.7 | | | | |
| 6/7/2018 | 6.8 | | | | | | | | |
| 6/8/2018 | | | | | | | | | |
| 6/11/2018 | | 6.8 | 4.9 | | | | | | |
| 6/12/2018 | | | | | | | | | 19.8 |
| 6/13/2018 | | | | | | 14.2 | 13.1 | 18.1 | |
| 6/28/2018 | | | | | | | | | |
| 8/6/2018 | | | | | | | | | |
| 8/7/2018 | | | | | | | | | |
| 9/19/2018 | | | | | | | | | |
| 9/24/2018 | | | | | | | | | |
| 9/25/2018 | 7.9 | 7.8 | 5.6 | 2.2 | 3.6 | | | | |
| 9/26/2018 | | | | | | | | | |
| 10/1/2018 | | | | | | | | | |
| 10/2/2018 | | | | | | 14 | 13.8 | 18.3 | 19.9 |
| 10/3/2018 | | | | | | | | | |
| 2/25/2019 | | | | | | | | | |
| 3/26/2019 | | | | | | | | | |
| 3/27/2019 | | | | | | | | | |
| 3/28/2019 | | | | | | | | | |
| 3/29/2019 | | | | | | | | | |
| 4/1/2019 | | | | | | | 14.2 | | 19.7 |

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-17S (bg) | YGWA-21I (bg) | YGWA-20S (bg) | YGWC-26S | YGWC-27I | YGWC-26I | YGWC-27S |
|---|---|---|---|---|---|---|---|---|---|
| 4/2/2019 | | | 4.8 | 2.5 | | 13.5 | | 17.9 | |
| 4/3/2019 | 6.9 | 6.3 | | | 3.1 | | | | |
| 6/12/2019 | | | | | | | | | |
| 9/24/2019 | | | | 3.1 | | | | | |
| 9/25/2019 | | | 5.7 | | 2.8 | 14.4 | | 17.1 | |
| 9/26/2019 | 7 | 7.1 | | | | | 14.3 | | 19.6 |
| 10/8/2019 | | | | | | | | | |
| 10/9/2019 | | | | | | | | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | | | | | | | | | |
| 3/19/2020 | | | | | | 15.4 | | | |
| 3/20/2020 | | | | | | | 13 | 17.7 | 17.7 |
| 3/24/2020 | 7 | 6.8 | 5 | 2.8 | 2.7 | | | | |
| 3/25/2020 | | | | | | | | | |
| 9/22/2020 | | | | | | | | | |
| 9/23/2020 | 7.2 | 7.2 | 6.6 | | | | | | |
| 9/24/2020 | | | | 2 | 2.7 | 15.7 | 13.3 | 17.1 | 17 |
| 9/25/2020 | | | | | | | | | |
| 3/1/2021 | | | | | | | | | |
| 3/2/2021 | | | | | | 13.2 | | | |
| 3/3/2021 | 7 | 7.2 | 7.1 | | 2.7 | | 13 | 16.6 | 4 |
| 3/4/2021 | | | | 1.8 | | | | | |
| 8/19/2021 | | | | | | 13.5 | | | |
| 8/20/2021 | | | | | | | 13.7 | 14.4 | 15.2 |
| 8/26/2021 | | 7.3 | | | | | | | |
| 8/27/2021 | 7.4 | | 8.5 | | 2.8 | | | | |
| 9/1/2021 | | | | 1.8 | | | | | |
| 9/3/2021 | | | | | | | | | |
| 2/8/2022 | | | | | | | | | 13 |
| 2/9/2022 | 7.5 | 7 | 10.9 | 1.7 | 2.8 | | | | |
| 2/10/2022 | | | | | | 14 | 13.1 | 15.4 | |
| 2/11/2022 | | | | | | | | | |
| 8/30/2022 | 7.9 | 7 | 12 | 2.4 | | | | | |
| 8/31/2022 | | | | | 2.9 | 15 | | 16.6 | |
| 9/1/2022 | | | | | | | 13.4 | | 10.4 |
| 2/7/2023 | 7.4 | 6.4 | 11.4 | 2.4 | 2.9 | | | | |
| 2/8/2023 | | | | | | | | | |
| 2/9/2023 | | | | | | 15.1 | 13.9 | 16.6 | 11.5 |
| 8/2/2023 | | | | | | | | | |
| 8/15/2023 | 7.3 | 6.7 | 11.6 | 2.3 | 2.8 | | | | |
| 8/16/2023 | | | | | | | | | |
| 8/17/2023 | | | | | | 14.4 | 12.9 | 15.7 | 11.7 |
| 2/20/2024 | 7.6 | | 12.2 | 2.3 | 2.9 | | | | |
| 2/21/2024 | | | | | | | 12.5 | | 12.6 |
| 2/22/2024 | | | | | | 14.9 | | 16 | |
| 2/23/2024 | | 6.6 | | | | | | | |

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWC-28I | YGWC-28S | YGWC-29IB | YGWA-47 (bg) | GWA-2 (bg) | YGWA-2I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|---|
| 6/1/2016 | | | | | | | | |
| 6/2/2016 | | | | | | | | |
| 6/6/2016 | | | | | | | | |
| 6/7/2016 | | | | | | | | |
| 6/8/2016 | | | | | | | | |
| 6/9/2016 | 18 | 19 | 15 | | | | | |
| 7/25/2016 | | | | | | | | |
| 7/26/2016 | | | | | | | | |
| 7/27/2016 | | | | | | | | |
| 7/28/2016 | | | | | | | | |
| 8/1/2016 | | | | | | | | |
| 8/2/2016 | 18 | 18 | 14 | | | | | |
| 8/30/2016 | | | | 5.2 | | | | |
| 8/31/2016 | | | | | 4 | | | |
| 9/13/2016 | | | | | | | | |
| 9/14/2016 | | | | | | 1.1 | | |
| 9/15/2016 | | | | | | | | |
| 9/16/2016 | | | | | | | | |
| 9/19/2016 | | | | | | | | |
| 9/20/2016 | | | | | | | | |
| 9/21/2016 | 18 | 19 | 14 | | | | | |
| 11/1/2016 | | | | | | | | |
| 11/2/2016 | | | | | | | | |
| 11/3/2016 | | | | | | | | |
| 11/4/2016 | | | | | | 1.4 | | |
| 11/7/2016 | | 20 | 14 | | | | | |
| 11/8/2016 | 18 | | | | | | | |
| 11/14/2016 | | | | 6.4 | | | | |
| 11/28/2016 | | | | | 4.2 | | | |
| 12/15/2016 | | | | | | 2.9 | | |
| 1/10/2017 | | | | | | | | |
| 1/11/2017 | | | | | | | | |
| 1/12/2017 | | | | | | | | |
| 1/13/2017 | | | | | | | | |
| 1/16/2017 | | | | | | 0.98 | | |
| 1/18/2017 | 18 | 20 | | | | | | |
| 1/19/2017 | | | 14 | | | | | |
| 2/21/2017 | | 19 | | | | | | |
| 2/22/2017 | 18 | | 13 | | 3.7 | | | |
| 2/23/2017 | | | | | | | | |
| 2/24/2017 | | | | 5.5 | | | | |
| 3/1/2017 | | | | | | | | |
| 3/2/2017 | | | | | | | | |
| 3/3/2017 | | | | | | 1.1 | | |
| 3/6/2017 | | | | | | | | |
| 3/7/2017 | | | | | | | | |
| 3/8/2017 | | | | | | | | |
| 4/26/2017 | | | | | | | | |
| 4/27/2017 | | | | | | | | |
| 4/28/2017 | | | | | | 0.91 | | |
| 5/1/2017 | | | | | | | | |
| 5/2/2017 | | | | | | | | |

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWC-28I | YGWC-28S | YGWC-29IB | YGWA-47 (bg) | GWA-2 (bg) | YGWA-2I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|---|
| 5/3/2017 | | | | | | | | |
| 5/5/2017 | 19 | 21 | | | | | | |
| 5/8/2017 | | | 15 | 5.8 | 4.2 | | | |
| 5/26/2017 | | | | | | 0.93 | | |
| 6/27/2017 | | | | | | | | |
| 6/28/2017 | | | | | | 1 | | |
| 6/29/2017 | | | | | | | | |
| 6/30/2017 | | | | | | | | |
| 7/5/2017 | 18 | | 14 | | | | | |
| 7/7/2017 | | 20 | | | | | | |
| 7/10/2017 | | | | | | | | |
| 7/11/2017 | | | | 5.8 | | | | |
| 7/17/2017 | | | | | 3.8 | | | |
| 10/3/2017 | | | | | | 1.2 | | |
| 10/4/2017 | | | | | | | | |
| 10/5/2017 | 19 | | 15 | | | | | |
| 10/6/2017 | | | | | | | | |
| 10/9/2017 | | 20 | | | | | | |
| 10/10/2017 | | | | 5.9 | | | | |
| 10/11/2017 | | | | | | | 2.4 | |
| 10/12/2017 | | | | | | | | 3.8 |
| 10/16/2017 | | | | | 4.2 | | | |
| 11/20/2017 | | | | | | | 1.8 | 4.4 |
| 1/10/2018 | | | | | | | | 4.6 |
| 1/11/2018 | | | | | | | 1.6 | |
| 2/19/2018 | | | | | 4.3 | | | 4.6 |
| 2/20/2018 | | | | | | | 2 | |
| 4/2/2018 | | | | 4.8 | | | | |
| 4/3/2018 | | | | | | | 3.3 | 5.9 |
| 6/5/2018 | | | | | | | | |
| 6/6/2018 | | | | | | | | |
| 6/7/2018 | | | | | | 1 | | |
| 6/8/2018 | | | | | | | | |
| 6/11/2018 | | | 13.6 | | | | | |
| 6/12/2018 | 17.6 | 19.3 | | | | | | |
| 6/13/2018 | | | | | | | | |
| 6/28/2018 | | | | | | | 2.1 | 5 |
| 8/6/2018 | | | | | 3.8 | | | |
| 8/7/2018 | | | | | | | 1.2 | 4.3 |
| 9/19/2018 | | | | 4 | | | | |
| 9/24/2018 | | | | | | | 1.3 | 4.9 |
| 9/25/2018 | | | | | | | | |
| 9/26/2018 | | | | | | | | |
| 10/1/2018 | | | | | | 1.1 | | |
| 10/2/2018 | | | 13.4 | | | | | |
| 10/3/2018 | 17.7 | 20.2 | | | | | | |
| 2/25/2019 | | | | | 4.1 | | | |
| 3/26/2019 | | | | | | | | 4.4 |
| 3/27/2019 | | | | 4.3 | | | 1.4 | |
| 3/28/2019 | | | | | | | | |
| 3/29/2019 | | | | | | 1.2 | | |
| 4/1/2019 | 17.2 | | 13.1 | | | | | |

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWC-28I | YGWC-28S | YGWC-29IB | YGWA-47 (bg) | GWA-2 (bg) | YGWA-2I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|---|
| 4/2/2019 | | 19.5 | | | | | | |
| 4/3/2019 | | | | | | | | |
| 6/12/2019 | | | | | 4.7 | | | |
| 9/24/2019 | | | | | | 0.95 (J) | | |
| 9/25/2019 | | | 11.3 | | | | | |
| 9/26/2019 | 17.3 | 19.5 | | | | | | |
| 10/8/2019 | | | | 4.4 | 5.1 | | | |
| 10/9/2019 | | | | | | | 2.1 | 5.1 |
| 3/17/2020 | | | | 4.1 | 4.8 | | | |
| 3/18/2020 | | | | | | | | |
| 3/19/2020 | 16 | 18.1 | | | | 0.97 (J) | | |
| 3/20/2020 | | | 11.3 | | | | | |
| 3/24/2020 | | | | | | | | 4.7 |
| 3/25/2020 | | | | | | | 1.9 | |
| 9/22/2020 | | | | 4.2 | 4.2 | | | |
| 9/23/2020 | | | | | | 0.88 (J) | | |
| 9/24/2020 | 15.1 | 18 | 10.9 | | | | 2.7 | 5 |
| 9/25/2020 | | | | | | | | |
| 3/1/2021 | | | | 3.7 | | | | |
| 3/2/2021 | | | | | 4.1 | | | |
| 3/3/2021 | 14.6 | 18 | 6.7 | | | 0.86 (J) | | |
| 3/4/2021 | | | | | | | 4.9 | 4.9 |
| 8/19/2021 | | | | 3.5 | | | | |
| 8/20/2021 | 15.2 | 18.1 | 6.8 | | 5.2 | | | |
| 8/26/2021 | | | | | | | 7.2 | |
| 8/27/2021 | | | | | | 0.99 (J) | | |
| 9/1/2021 | | | | | | | | |
| 9/3/2021 | | | | | | | | 5.5 |
| 2/8/2022 | 15.2 | 18.3 | 5.5 | 3.2 | 5.7 | | 7.4 | 6.2 |
| 2/9/2022 | | | | | | 1 (J) | | |
| 2/10/2022 | | | | | | | | |
| 2/11/2022 | | | | | | | | |
| 8/30/2022 | | | | | 6.3 | 1.2 | | |
| 8/31/2022 | | | | 3.5 | | | 6.7 | 6.3 |
| 9/1/2022 | 10.4 | 16.5 | 8.1 | | | | | |
| 2/7/2023 | | | | | 6.1 | 1.1 | 5.6 | |
| 2/8/2023 | | | 10.4 | 3.5 | | | | 6.9 |
| 2/9/2023 | 11.5 | 18.1 | | | | | | |
| 8/2/2023 | | | 9.5 | | | | | |
| 8/15/2023 | | | | 3.5 | 5.6 | 0.93 (J) | 4.5 | 5.6 |
| 8/16/2023 | 10.5 | 16.8 | | | | | | |
| 8/17/2023 | | | | | | | | |
| 2/20/2024 | | | | 3.2 | 6.1 | 0.96 (J) | 4.6 | 5.7 |
| 2/21/2024 | 10.4 | 17.5 | | | | | | |
| 2/22/2024 | | | 10.5 | | | | | |
| 2/23/2024 | | | | | | | | |

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-3I (bg) | YGWA-1I (bg) | YGWA-1D (bg) | YGWA-14S (bg) | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-3D (bg) | YGWA-5I (bg) | YGWA-30I (bg) |
|---|---|---|---|---|---|---|---|---|---|
| 6/1/2016 | 0.15 (J) | <0.1 | 0.12 (J) | | | | | | |
| 6/2/2016 | | | | <0.1 | <0.1 | 0.11 (J) | 0.62 | <0.1 | <0.1 |
| 6/6/2016 | | | | | | | | | |
| 6/7/2016 | | | | | | | | | |
| 6/8/2016 | | | | | | | | | |
| 6/9/2016 | | | | | | | | | |
| 7/25/2016 | 0.14 (J) | 0.06 (J) | | | | | | | 0.06 (J) |
| 7/26/2016 | | | 0.08 (J) | 0.02 (J) | <0.1 | 0.05 (J) | 0.49 | <0.1 | |
| 7/27/2016 | | | | | | | | | |
| 7/28/2016 | | | | | | | | | |
| 8/1/2016 | | | | | | | | | |
| 8/2/2016 | | | | | | | | | |
| 8/30/2016 | | | | | | | | | |
| 8/31/2016 | | | | | | | | | |
| 9/13/2016 | | <0.1 | 0.11 (J) | | | | | | |
| 9/14/2016 | 0.18 (J) | | | | <0.1 | 0.04 (J) | | <0.1 | |
| 9/15/2016 | | | | <0.1 | | | 0.54 | | |
| 9/16/2016 | | | | | | | | | |
| 9/19/2016 | | | | | | | | | <0.1 |
| 9/20/2016 | | | | | | | | | |
| 9/21/2016 | | | | | | | | | |
| 11/1/2016 | <0.1 | | <0.1 | | | | 0.68 | | <0.1 |
| 11/2/2016 | | | | <0.1 | <0.1 | <0.1 | | | |
| 11/3/2016 | | | | | | | | | |
| 11/4/2016 | | <0.1 | | | | | | <0.1 | |
| 11/7/2016 | | | | | | | | | |
| 11/8/2016 | | | | | | | | | |
| 11/14/2016 | | | | | | | | | |
| 11/28/2016 | | | | | | | | | |
| 12/15/2016 | | | | | | | | | |
| 1/10/2017 | | | | <0.1 | | | | | |
| 1/11/2017 | 0.09 (J) | | 0.05 (J) | | | | 0.49 | | |
| 1/12/2017 | | | | | | 0.04 (J) | | <0.1 | |
| 1/13/2017 | | | | | <0.1 | | | | |
| 1/16/2017 | | <0.1 | | | | | | | <0.1 |
| 1/18/2017 | | | | | | | | | |
| 1/19/2017 | | | | | | | | | |
| 2/21/2017 | | | | | | | | | <0.1 |
| 2/22/2017 | | | | | | | | | |
| 2/23/2017 | | | | | | | | | |
| 2/24/2017 | | | | | | | | | |
| 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 | | | | | |
| 4/26/2017 | 0.08 (J) | | | <0.1 | | | 0.48 | | <0.1 |
| 4/27/2017 | | 0.01 (J) | 0.04 (J) | | | | | | |
| 4/28/2017 | | | | | | | | | |
| 5/1/2017 | | | | | <0.1 | <0.1 | | | |
| 5/2/2017 | | | | | | | | <0.1 | |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-3I (bg) | YGWA-1I (bg) | YGWA-1D (bg) | YGWA-14S (bg) | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-3D (bg) | YGWA-5I (bg) | YGWA-30I (bg) |
|---|---|---|---|---|---|---|---|---|---|
| 5/3/2017 | | | | | | | | | |
| 5/5/2017 | | | | | | | | | |
| 5/8/2017 | | | | | | | | | |
| 5/26/2017 | | | | | | | | | |
| 6/27/2017 | | <0.1 | <0.1 | | | <0.1 | | <0.1 | |
| 6/28/2017 | 0.12 (J) | | | | | | 0.47 | | |
| 6/29/2017 | | | | | <0.1 | | | | |
| 6/30/2017 | | | | <0.1 | | | | | <0.1 |
| 7/5/2017 | | | | | | | | | |
| 7/7/2017 | | | | | | | | | |
| 7/10/2017 | | | | | | | | | |
| 7/11/2017 | | | | | | | | | |
| 7/17/2017 | | | | | | | | | |
| 10/3/2017 | | <0.1 | <0.1 | | | <0.1 | | <0.1 | |
| 10/4/2017 | <0.1 | | | | | | <0.1 | | <0.1 |
| 10/5/2017 | | | | <0.1 | <0.1 | | | | |
| 10/6/2017 | | | | | | | | | |
| 10/9/2017 | | | | | | | | | |
| 10/10/2017 | | | | | | | | | |
| 10/11/2017 | | | | | | | | | |
| 10/12/2017 | | | | | | | | | |
| 10/16/2017 | | | | | | | | | |
| 11/20/2017 | | | | | | | | | |
| 1/10/2018 | | | | | | | | | |
| 1/11/2018 | | | | | | | | | |
| 2/19/2018 | | | | | | | | | |
| 2/20/2018 | | | | | | | | | |
| 3/27/2018 | | <0.1 | | <0.1 | | | | | <0.1 |
| 3/28/2018 | <0.1 | | | | | | 0.56 | | |
| 3/29/2018 | | | <0.1 | | <0.1 | <0.1 | | <0.1 | |
| 3/30/2018 | | | | | | | | | |
| 4/2/2018 | | | | | | | | | |
| 4/3/2018 | | | | | | | | | |
| 6/5/2018 | | | 0.055 (J) | | | | | | |
| 6/6/2018 | | <0.1 | | | | 0.15 (J) | | | |
| 6/7/2018 | | | | | <0.1 | | 0.48 | <0.1 | |
| 6/8/2018 | 0.2 (J) | | | <0.1 | | | | | |
| 6/11/2018 | | | | | | | | | <0.1 |
| 6/12/2018 | | | | | | | | | |
| 6/13/2018 | | | | | | | | | |
| 6/28/2018 | | | | | | | | | |
| 8/6/2018 | | | | | | | | | |
| 8/7/2018 | | | | | | | | | |
| 9/19/2018 | | | | | | | | | |
| 9/24/2018 | | | | | | | | | |
| 9/25/2018 | | | | | | | | | |
| 9/26/2018 | | | | | <0.1 | <0.1 | | <0.1 | |
| 10/1/2018 | <0.1 | <0.1 | <0.1 | <0.1 | | | 0.44 | | |
| 10/2/2018 | | | | | | | | | <0.1 |
| 10/3/2018 | | | | | | | | | |
| 2/25/2019 | | | | | | | | | |
| 2/26/2019 | | | | <0.1 | | | | | <0.1 |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-3I (bg) | YGWA-1I (bg) | YGWA-1D (bg) | YGWA-14S (bg) | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-3D (bg) | YGWA-5I (bg) | YGWA-30I (bg) |
|---|---|---|---|---|---|---|---|---|---|
| 2/27/2019 | 0.13 (J) | <0.1 | 0.052 (J) | | | | 0.53 | | |
| 3/4/2019 | | | | | <0.1 | 0.19 (J) | | <0.1 | |
| 3/5/2019 | | | | | | | | | |
| 3/6/2019 | | | | | | | | | |
| 3/26/2019 | | | | | | | | | |
| 3/27/2019 | | | | | | | | | |
| 3/28/2019 | | <0.1 | 0.036 (J) | | | | | | |
| 3/29/2019 | | | | <0.1 | | | | | |
| 4/1/2019 | 0.1 (J) | | | | | | 0.45 | | <0.1 |
| 4/2/2019 | | | | | | | | | |
| 4/3/2019 | | | | | <0.1 | 0.047 (J) | | <0.1 | |
| 6/12/2019 | | | | | | | | | |
| 8/19/2019 | | | | | | | | | |
| 8/20/2019 | | | | | | | | | |
| 8/21/2019 | | | | | | | | | |
| 9/24/2019 | | <0.1 | 0.063 (J) | | | 0.05 (J) | | <0.1 | |
| 9/25/2019 | 0.1 (J) | | | <0.1 | <0.1 | | 0.46 | | <0.1 |
| 9/26/2019 | | | | | | | | | |
| 10/8/2019 | | | | | | | | | |
| 10/9/2019 | | | | | | | | | |
| 2/10/2020 | | <0.1 | 0.061 (J) | | | | | | |
| 2/11/2020 | 0.094 (J) | | | | | | | | |
| 2/12/2020 | | | | <0.1 | <0.1 | <0.1 | 0.4 | <0.1 | <0.1 |
| 2/13/2020 | | | | | | | | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | | <0.1 | | <0.1 | | | | | |
| 3/19/2020 | 0.11 (J) | | 0.064 (J) | | | | 0.51 | | <0.1 |
| 3/20/2020 | | | | | | | | | |
| 3/24/2020 | | | | | | <0.1 | | <0.1 | |
| 3/25/2020 | | | | | <0.1 | | | | |
| 8/26/2020 | | | | | | | | | |
| 8/27/2020 | | | | | | | | | |
| 9/22/2020 | | | | | <0.1 | 0.056 (J) | | <0.1 | |
| 9/23/2020 | 0.098 (J) | <0.1 | 0.058 (J) | | | | 0.47 | | |
| 9/24/2020 | | | | | | | | | <0.1 |
| 9/25/2020 | | | | <0.1 | | | | | |
| 2/8/2021 | | | | | | 0.055 (J) | | <0.1 | |
| 2/9/2021 | | | | | <0.1 | | | | |
| 2/10/2021 | <0.1 | | | <0.1 | | | 0.43 | | |
| 2/11/2021 | | | | | | | | | <0.1 |
| 2/12/2021 | | <0.1 | 0.068 (J) | | | | | | |
| 3/1/2021 | | | | | | | | | <0.1 |
| 3/2/2021 | | | | <0.1 | | <0.1 | | <0.1 | |
| 3/3/2021 | 0.1 | <0.1 | 0.078 (J) | | <0.1 | | 0.44 | | |
| 3/4/2021 | | | | | | | | | |
| 8/19/2021 | | <0.1 | 0.074 (J) | <0.1 | | | 0.47 | | <0.1 |
| 8/20/2021 | | | | | | | | | |
| 8/26/2021 | | | | | <0.1 | 0.061 (J) | | <0.1 | |
| 8/27/2021 | 0.12 | | | | | | | | |
| 9/1/2021 | | | | | | | | | |
| 9/3/2021 | | | | | | | | | |
| 2/8/2022 | | | | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-3I (bg) | YGWA-1I (bg) | YGWA-1D (bg) | YGWA-14S (bg) | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-3D (bg) | YGWA-5I (bg) | YGWA-30I (bg) |
|---|---|---|---|---|---|---|---|---|---|
| 2/9/2022 | 0.097 (J) | <0.1 | 0.057 (J) | | | | 0.43 | | |
| 2/10/2022 | | | | <0.1 | | 0.055 (J) | | <0.1 | |
| 2/11/2022 | | | | | <0.1 | | | | <0.1 |
| 8/30/2022 | | | 0.093 (J) | | | 0.085 (J) | | <0.1 | |
| 8/31/2022 | 0.13 | 0.065 (J) | | 0.053 (J) | 0.061 (J) | | 0.42 | | 0.06 (J) |
| 9/1/2022 | | | | | | | | | |
| 2/7/2023 | | 0.071 (J) | 0.093 (J) | | | 0.082 (J) | | | |
| 2/8/2023 | 0.16 | | | 0.059 (J) | | | 0.56 | | 0.064 (J) |
| 2/9/2023 | | | | | 0.067 (J) | | | <0.1 | |
| 8/2/2023 | | | | | | | | | |
| 8/15/2023 | | <0.1 | 0.057 (J) | <0.1 | <0.1 | <0.1 | 0.42 | <0.1 | |
| 8/16/2023 | 0.11 | | | | | | | | <0.1 |
| 8/17/2023 | | | | | | | | | |
| 2/20/2024 | 0.12 | <0.1 | 0.086 (J) | | 0.059 (J) | 0.076 (J) | 0.45 | <0.1 | 0.051 (J) |
| 2/21/2024 | | | | | | | | | |
| 2/22/2024 | | | | | | | | | |
| 2/23/2024 | | | | <0.1 | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-17S (bg) | YGWA-21I (bg) | YGWA-20S (bg) | YGWC-26I | YGWC-27S | YGWC-26S | YGWC-27I |
|---|---|---|---|---|---|---|---|---|---|
| 6/1/2016 | | | | | | | | | |
| 6/2/2016 | | | | | | | | | |
| 6/6/2016 | <0.1 | <0.1 | | | | | | | |
| 6/7/2016 | | | <0.1 | <0.1 | <0.1 | | | | |
| 6/8/2016 | | | | | | 0.094 (J) | 0.12 (J) | <0.1 | 0.086 (J) |
| 6/9/2016 | | | | | | | | | |
| 7/25/2016 | | | | | | | | | |
| 7/26/2016 | | | | | | | | | |
| 7/27/2016 | <0.1 | <0.1 | <0.1 | | <0.1 | | | | |
| 7/28/2016 | | | | 0.02 (J) | | | | | |
| 8/1/2016 | | | | | | 0.08 (J) | 0.22 (J) | 0.24 (J) | 0.14 (J) |
| 8/2/2016 | | | | | | | | | |
| 8/30/2016 | | | | | | | | | |
| 8/31/2016 | | | | | | | | | |
| 9/13/2016 | | | | | | | | | |
| 9/14/2016 | | | | | | | | | |
| 9/15/2016 | | | | | | | | | |
| 9/16/2016 | | <0.1 | <0.1 | | | | | | |
| 9/19/2016 | <0.1 | | | 0.02 (J) | <0.1 | | | | |
| 9/20/2016 | | | | | | 0.05 (J) | 0.32 | 0.03 (J) | <0.1 |
| 9/21/2016 | | | | | | | | | |
| 11/1/2016 | | | | | | | | | |
| 11/2/2016 | | | | | <0.1 | | | | |
| 11/3/2016 | <0.1 | <0.1 | <0.1 | <0.1 | | | | | |
| 11/4/2016 | | | | | | | | | |
| 11/7/2016 | | | | | | <0.1 (*) | <0.1 (*) | 0.44 | <0.1 (*) |
| 11/8/2016 | | | | | | | | | |
| 11/14/2016 | | | | | | | | | |
| 11/28/2016 | | | | | | | | | |
| 12/15/2016 | | | | | | | | | |
| 1/10/2017 | | | | | | | | | |
| 1/11/2017 | <0.1 | <0.1 | <0.1 | | | | | | |
| 1/12/2017 | | | | | | | | | |
| 1/13/2017 | | | | <0.1 | <0.1 | | | | |
| 1/16/2017 | | | | | | | | | |
| 1/18/2017 | | | | | | 0.11 (J) | | <0.1 (*) | <0.1 (*) |
| 1/19/2017 | | | | | | | 0.25 (J) | | |
| 2/21/2017 | | | | | | <0.1 (*) | | <0.1 (*) | |
| 2/22/2017 | | | | | | | 0.21 (J) | | |
| 2/23/2017 | | | | | | | | | <0.1 (*) |
| 2/24/2017 | | | | | | | | | |
| 3/1/2017 | <0.1 | <0.1 | | | | | | | |
| 3/2/2017 | | | <0.1 | | | | | | |
| 3/3/2017 | | | | | | | | | |
| 3/6/2017 | | | | <0.1 | <0.1 | | | | |
| 3/7/2017 | | | | | | | | | |
| 3/8/2017 | | | | | | | | | |
| 4/26/2017 | <0.1 | <0.1 | | 0.04 (J) | <0.1 | | | | |
| 4/27/2017 | | | | | | | | | |
| 4/28/2017 | | | | | | | | | |
| 5/1/2017 | | | | | | | | | |
| 5/2/2017 | | | <0.1 | | | | | | |

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-17S (bg) | YGWA-21I (bg) | YGWA-20S (bg) | YGWC-26I | YGWC-27S | YGWC-26S | YGWC-27I |
|---|---|---|---|---|---|---|---|---|---|
| 5/3/2017 | | | | | | | | 0.16 (J) | |
| 5/5/2017 | | | | | | | | | |
| 5/8/2017 | | | | | | 0.08 (J) | 0.19 (J) | | 0.07 (J) |
| 5/26/2017 | | | | | | | | | |
| 6/27/2017 | | | | | | | | | |
| 6/28/2017 | <0.1 | <0.1 | | | | | | | |
| 6/29/2017 | | | <0.1 | <0.1 | <0.1 | | | | |
| 6/30/2017 | | | | | | | 0.2 (J) | | <0.1 (*) |
| 7/5/2017 | | | | | | | | | |
| 7/7/2017 | | | | | | | | | |
| 7/10/2017 | | | | | | <0.1 (*) | | <0.1 (*) | |
| 7/11/2017 | | | | | | | | | |
| 7/17/2017 | | | | | | | | | |
| 10/3/2017 | | | | <0.1 | | | | | |
| 10/4/2017 | | <0.1 | <0.1 | | <0.1 | | | | |
| 10/5/2017 | <0.1 | | | | | | | | |
| 10/6/2017 | | | | | | | <0.1 (*) | | |
| 10/9/2017 | | | | | | | | | <0.1 (*) |
| 10/10/2017 | | | | | | <0.1 | | <0.1 | |
| 10/11/2017 | | | | | | | | | |
| 10/12/2017 | | | | | | | | | |
| 10/16/2017 | | | | | | | | | |
| 11/20/2017 | | | | | | | | | |
| 1/10/2018 | | | | | | | | | |
| 1/11/2018 | | | | | | | | | |
| 2/19/2018 | | | | | | | | | |
| 2/20/2018 | | | | | | | | | |
| 3/27/2018 | | | | | | | | | |
| 3/28/2018 | <0.1 | <0.1 | <0.1 | | | | | | |
| 3/29/2018 | | | | <0.1 | <0.1 | | 0.49 | | <0.1 |
| 3/30/2018 | | | | | | <0.1 | | 0.35 | |
| 4/2/2018 | | | | | | | | | |
| 4/3/2018 | | | | | | | | | |
| 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 | | | | | | | 0.037 (J) | | |
| 6/13/2018 | | | | | | 0.088 (J) | | 0.044 (J) | <0.1 |
| 6/28/2018 | | | | | | | | | |
| 8/6/2018 | | | | | | | | | |
| 8/7/2018 | | | | | | | | | |
| 9/19/2018 | | | | | | | | | |
| 9/24/2018 | | | | | | | | | |
| 9/25/2018 | <0.1 | <0.1 | <0.1 | 0 (J) | <0.1 | | | | |
| 9/26/2018 | | | | | | | | | |
| 10/1/2018 | | | | | | | | | |
| 10/2/2018 | | | | | | <0.1 | <0.1 | <0.1 | <0.1 |
| 10/3/2018 | | | | | | | | | |
| 2/25/2019 | | | | | | | | | |
| 2/26/2019 | | | | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-17S (bg) | YGWA-21I (bg) | YGWA-20S (bg) | YGWC-26I | YGWC-27S | YGWC-26S | YGWC-27I |
|---|---|---|---|---|---|---|---|---|---|
| 2/27/2019 | | | | | | <0.1 | 0.14 (J) | <0.1 | <0.1 |
| 3/4/2019 | | | | | | | | | |
| 3/5/2019 | | <0.1 | <0.1 | 0.32 | <0.1 | | | | |
| 3/6/2019 | <0.1 | | | | | | | | |
| 3/26/2019 | | | | | | | | | |
| 3/27/2019 | | | | | | | | | |
| 3/28/2019 | | | | | | | | | |
| 3/29/2019 | | | | | | | | | |
| 4/1/2019 | | | | | | | 0.088 (J) | | 0.034 (J) |
| 4/2/2019 | | | <0.1 | 0.12 (J) | | 0.071 (J) | | <0.1 | |
| 4/3/2019 | <0.1 | <0.1 | | | <0.1 | | | | |
| 6/12/2019 | | | | | | | | | |
| 8/19/2019 | | | | | | | | | |
| 8/20/2019 | | | | | | | | | |
| 8/21/2019 | | | | | | | | | |
| 9/24/2019 | | | | 0.15 (J) | | | | | |
| 9/25/2019 | | | <0.1 | | <0.1 | 0.064 (J) | | <0.1 | |
| 9/26/2019 | <0.1 | <0.1 | | | | | 0.22 (J) | | 0.14 (J) |
| 10/8/2019 | | | | | | | | | |
| 10/9/2019 | | | | | | | | | |
| 2/10/2020 | | | | | | | | | |
| 2/11/2020 | <0.1 | <0.1 | <0.1 | | | | | | |
| 2/12/2020 | | | | 0.1 (J) | <0.1 | | | | |
| 2/13/2020 | | | | | | <0.1 | 0.11 (J) | <0.1 | <0.1 |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | | | | | | | | | |
| 3/19/2020 | | | | | | | | <0.1 | |
| 3/20/2020 | | | | | | 0.06 (J) | 0.097 (J) | | <0.1 |
| 3/24/2020 | <0.1 | <0.1 | <0.1 | 0.081 (J) | <0.1 | | | | |
| 3/25/2020 | | | | | | | | | |
| 8/26/2020 | | | | | | | | | |
| 8/27/2020 | | | | | | | | | |
| 9/22/2020 | | | | | | | | | |
| 9/23/2020 | <0.1 | <0.1 | <0.1 | | | | | | |
| 9/24/2020 | | | | 0.079 (J) | <0.1 | 0.053 (J) | 0.092 (J) | <0.1 | 0.059 (J) |
| 9/25/2020 | | | | | | | | | |
| 2/8/2021 | | | | | | | | | |
| 2/9/2021 | <0.1 | <0.1 | | 0.092 (J) | <0.1 | | | | |
| 2/10/2021 | | | | | | 0.05 (J) | 0.084 (J) | <0.1 | 0.055 (J) |
| 2/11/2021 | | | | | | | | | |
| 2/12/2021 | | | | | | | | | |
| 3/1/2021 | | | | | | | | | |
| 3/2/2021 | | | | | | | | <0.1 | |
| 3/3/2021 | <0.1 | <0.1 | <0.1 | | <0.1 | 0.05 (J) | <0.1 | | 0.058 (J) |
| 3/4/2021 | | | | 0.091 (J) | | | | | |
| 8/19/2021 | | | | | | | | <0.1 | |
| 8/20/2021 | | | | | | <0.1 | 0.11 | | 0.091 (J) |
| 8/26/2021 | | <0.1 | | | | | | | |
| 8/27/2021 | <0.1 | | <0.1 | | <0.1 | | | | |
| 9/1/2021 | | | | 0.11 | | | | | |
| 9/3/2021 | | | | | | | | | |
| 2/8/2022 | | | | | | | 0.087 (J) | | |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-17S (bg) | YGWA-21I (bg) | YGWA-20S (bg) | YGWC-26I | YGWC-27S | YGWC-26S | YGWC-27I |
|---|---|---|---|---|---|---|---|---|---|
| 2/9/2022 | <0.1 | <0.1 | <0.1 | 0.1 | <0.1 | | | | |
| 2/10/2022 | | | | | | <0.1 | | <0.1 | 0.059 (J) |
| 2/11/2022 | | | | | | | | | |
| 8/30/2022 | <0.1 | <0.1 | <0.1 | 0.1 | | | | | |
| 8/31/2022 | | | | | <0.1 | 0.082 (J) | | 0.076 (J) | |
| 9/1/2022 | | | | | | | 0.12 | | 0.1 |
| 2/7/2023 | <0.1 | <0.1 | <0.1 | 0.1 | <0.1 | | | | |
| 2/8/2023 | | | | | | | | | |
| 2/9/2023 | | | | | | 0.088 (J) | 0.12 | 0.07 (J) | 0.1 |
| 8/2/2023 | | | | | | | | | |
| 8/15/2023 | <0.1 | <0.1 | <0.1 | 0.061 (J) | <0.1 | | | | |
| 8/16/2023 | | | | | | | | | |
| 8/17/2023 | | | | | | 0.073 (J) | 0.098 (J) | 0.06 (J) | 0.081 (J) |
| 2/20/2024 | <0.1 | | <0.1 | 0.083 (J) | <0.1 | | | | |
| 2/21/2024 | | | | | | | 0.11 | | 0.082 (J) |
| 2/22/2024 | | | | | | 0.057 (J) | | <0.1 | |
| 2/23/2024 | | <0.1 | | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWC-28I | YGWC-28S | YGWC-29IB | YGWA-47 (bg) | GWA-2 (bg) | YGWA-2I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|---|
| 6/1/2016 | | | | | | | | |
| 6/2/2016 | | | | | | | | |
| 6/6/2016 | | | | | | | | |
| 6/7/2016 | | | | | | | | |
| 6/8/2016 | | | | | | | | |
| 6/9/2016 | 0.098 (J) | 0.16 (J) | 0.085 (J) | | | | | |
| 7/25/2016 | | | | | | | | |
| 7/26/2016 | | | | | | | | |
| 7/27/2016 | | | | | | | | |
| 7/28/2016 | | | | | | | | |
| 8/1/2016 | | | | | | | | |
| 8/2/2016 | 0.38 | 0.5 | 0.09 (J) | | | | | |
| 8/30/2016 | | | | 0.09 (J) | | | | |
| 8/31/2016 | | | | | 0.14 (J) | | | |
| 9/13/2016 | | | | | | | | |
| 9/14/2016 | | | | | | 0.08 (J) | | |
| 9/15/2016 | | | | | | | | |
| 9/16/2016 | | | | | | | | |
| 9/19/2016 | | | | | | | | |
| 9/20/2016 | | | | | | | | |
| 9/21/2016 | 0.08 (J) | 0.25 (J) | 0.09 (J) | | | | | |
| 11/1/2016 | | | | | | | | |
| 11/2/2016 | | | | | | | | |
| 11/3/2016 | | | | | | | | |
| 11/4/2016 | | | | | | <0.1 | | |
| 11/7/2016 | | 0.27 (J) | <0.1 (*) | | | | | |
| 11/8/2016 | 0.24 (J) | | | | | | | |
| 11/14/2016 | | | | 0.18 (J) | | | | |
| 11/28/2016 | | | | | 0.12 (J) | | | |
| 12/15/2016 | | | | | | 0.06 (J) | | |
| 1/10/2017 | | | | | | | | |
| 1/11/2017 | | | | | | | | |
| 1/12/2017 | | | | | | | | |
| 1/13/2017 | | | | | | | | |
| 1/16/2017 | | | | | | 0.1 (J) | | |
| 1/18/2017 | 0.12 (J) | 0.34 | | | | | | |
| 1/19/2017 | | | <0.1 (*) | | | | | |
| 2/21/2017 | | 0.27 (J) | | | | | | |
| 2/22/2017 | <0.1 (*) | | <0.1 (*) | | 0.09 (J) | | | |
| 2/23/2017 | | | | | | | | |
| 2/24/2017 | | | | 0.05 (J) | | | | |
| 3/1/2017 | | | | | | | | |
| 3/2/2017 | | | | | | | | |
| 3/3/2017 | | | | | | <0.1 | | |
| 3/6/2017 | | | | | | | | |
| 3/7/2017 | | | | | | | | |
| 3/8/2017 | | | | | | | | |
| 4/26/2017 | | | | | | | | |
| 4/27/2017 | | | | | | | | |
| 4/28/2017 | | | | | | 0.06 (J) | | |
| 5/1/2017 | | | | | | | | |
| 5/2/2017 | | | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWC-28I | YGWC-28S | YGWC-29IB | YGWA-47 (bg) | GWA-2 (bg) | YGWA-2I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|---|
| 5/3/2017 | | | | | | | | |
| 5/5/2017 | 0.08 (J) | 0.2 (J) | | | | | | |
| 5/8/2017 | | | 0.06 (J) | 0.03 (J) | 0.05 (J) | | | |
| 5/26/2017 | | | | | | 0.09 (J) | | |
| 6/27/2017 | | | | | | | | |
| 6/28/2017 | | | | | | 0.11 (J) | | |
| 6/29/2017 | | | | | | | | |
| 6/30/2017 | | | | | | | | |
| 7/5/2017 | 0.11 (J) | | 0.08 (J) | | | | | |
| 7/7/2017 | | 0.18 (J) | | | | | | |
| 7/10/2017 | | | | | | | | |
| 7/11/2017 | | | | 0.07 (J) | | | | |
| 7/17/2017 | | | | | 0.14 (J) | | | |
| 10/3/2017 | | | | | | <0.1 | | |
| 10/4/2017 | | | | | | | | |
| 10/5/2017 | <0.1 (*) | | <0.1 (*) | | | | | |
| 10/6/2017 | | | | | | | | |
| 10/9/2017 | | <0.1 (*) | | | | | | |
| 10/10/2017 | | | | <0.1 | | | | |
| 10/11/2017 | | | | | | | <0.1 | |
| 10/12/2017 | | | | | | | | <0.1 |
| 10/16/2017 | | | | | 0.12 (J) | | | |
| 11/20/2017 | | | | | | | <0.1 | <0.1 |
| 1/10/2018 | | | | | | | | <0.1 |
| 1/11/2018 | | | | | | | <0.1 | |
| 2/19/2018 | | | | | 0.17 | | | <0.1 |
| 2/20/2018 | | | | | | | 0.23 | |
| 3/27/2018 | | | | | | | | |
| 3/28/2018 | | | | | | 0.31 | | |
| 3/29/2018 | | | <0.1 | | | | | |
| 3/30/2018 | <0.1 | <0.1 | | | | | | |
| 4/2/2018 | | | | <0.1 | | | | |
| 4/3/2018 | | | | | | | <0.1 | <0.1 |
| 6/5/2018 | | | | | | | | |
| 6/6/2018 | | | | | | | | |
| 6/7/2018 | | | | | | 0.11 (J) | | |
| 6/8/2018 | | | | | | | | |
| 6/11/2018 | | | <0.1 | | | | | |
| 6/12/2018 | <0.1 | 0.13 (J) | | | | | | |
| 6/13/2018 | | | | | | | | |
| 6/28/2018 | | | | | | | <0.1 | <0.1 |
| 8/6/2018 | | | | | 0.087 (J) | | | |
| 8/7/2018 | | | | | | | 0.048 (J) | <0.1 |
| 9/19/2018 | | | | <0.1 | | | | |
| 9/24/2018 | | | | | | | <0.1 | <0.1 |
| 9/25/2018 | | | | | | | | |
| 9/26/2018 | | | | | | | | |
| 10/1/2018 | | | | | | <0.1 | | |
| 10/2/2018 | | | <0.1 | | | | | |
| 10/3/2018 | <0.1 | 0.31 | | | | | | |
| 2/25/2019 | | | | | 0.14 (J) | | | |
| 2/26/2019 | | | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWC-28I | YGWC-28S | YGWC-29IB | YGWA-47 (bg) | GWA-2 (bg) | YGWA-2I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|---|
| 2/27/2019 | 0.14 (J) | 0.22 (J) | 0.15 (J) | | | 0.12 (J) | | |
| 3/4/2019 | | | | | | | | |
| 3/5/2019 | | | | | | | | |
| 3/6/2019 | | | | | | | | |
| 3/26/2019 | | | | | | | | <0.1 |
| 3/27/2019 | | | | 0.081 (J) | | | <0.1 | |
| 3/28/2019 | | | | | | | | |
| 3/29/2019 | | | | | | 0.13 (J) | | |
| 4/1/2019 | 0.078 (J) | | 0.059 (J) | | | | | |
| 4/2/2019 | | 0.14 (J) | | | | | | |
| 4/3/2019 | | | | | | | | |
| 6/12/2019 | | | | | 0.12 (J) | | | |
| 8/19/2019 | | | | | <0.1 | | | |
| 8/20/2019 | | | | <0.1 | | | | |
| 8/21/2019 | | | | | | | <0.1 | <0.1 |
| 9/24/2019 | | | | | | 0.081 (J) | | |
| 9/25/2019 | | | 0.054 (J) | | | | | |
| 9/26/2019 | 0.29 (J) | 0.28 (J) | | | | | | |
| 10/8/2019 | | | | 0.034 (J) | 0.052 (J) | | | |
| 10/9/2019 | | | | | | | <0.1 | <0.1 |
| 2/10/2020 | | | | | | | | |
| 2/11/2020 | | | | | | 0.075 (J) | | |
| 2/12/2020 | | | | | | | <0.1 | <0.1 |
| 2/13/2020 | 0.14 (J) | 0.18 (J) | 0.053 (J) | | | | | |
| 3/17/2020 | | | | <0.1 | 0.053 (J) | | | |
| 3/18/2020 | | | | | | | | |
| 3/19/2020 | 0.07 (J) | 0.16 (J) | | | | 0.093 (J) | | |
| 3/20/2020 | | | 0.057 (J) | | | | | |
| 3/24/2020 | | | | | | | | <0.1 |
| 3/25/2020 | | | | | | | <0.1 | |
| 8/26/2020 | | | | | 0.068 (J) | | | |
| 8/27/2020 | | | | <0.1 | | | | |
| 9/22/2020 | | | | <0.1 | 0.058 (J) | | | |
| 9/23/2020 | | | | | | 0.08 (J) | | |
| 9/24/2020 | 0.073 (J) | 0.16 | 0.06 (J) | | | | <0.1 | <0.1 |
| 9/25/2020 | | | | | | | | |
| 2/8/2021 | | | | | | | | |
| 2/9/2021 | | | | | | | | |
| 2/10/2021 | | | | | | 0.094 (J) | <0.1 | <0.1 |
| 2/11/2021 | 0.066 (J) | | | | | | | |
| 2/12/2021 | | 0.069 (J) | 0.17 | | | | | |
| 3/1/2021 | | | | <0.1 | | | | |
| 3/2/2021 | | | | | 0.073 (J) | | | |
| 3/3/2021 | 0.072 (J) | 0.13 | 0.056 (J) | | | 0.085 (J) | | |
| 3/4/2021 | | | | | | | <0.1 | <0.1 |
| 8/19/2021 | | | | <0.1 | | | | |
| 8/20/2021 | 0.11 | 0.2 | 0.069 (J) | | 0.06 (J) | | | |
| 8/26/2021 | | | | | | | 0.063 (J) | |
| 8/27/2021 | | | | | | 0.12 | | |
| 9/1/2021 | | | | | | | | |
| 9/3/2021 | | | | | | | | <0.1 |
| 2/8/2022 | 0.063 (J) | 0.14 | 0.053 (J) | <0.1 | 0.064 (J) | | 0.052 (J) | <0.1 |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWC-28I | YGWC-28S | YGWC-29IB | YGWA-47 (bg) | GWA-2 (bg) | YGWA-2I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|---|
| 2/9/2022 | | | | | | 0.094 (J) | | |
| 2/10/2022 | | | | | | | | |
| 2/11/2022 | | | | | | | | |
| 8/30/2022 | | | | | 0.086 (J) | 0.12 | | |
| 8/31/2022 | | | | 0.065 (J) | | | 0.065 (J) | 0.05 (J) |
| 9/1/2022 | 0.11 | 0.16 | 0.091 (J) | | | | | |
| 2/7/2023 | | | | | 0.095 (J) | 0.12 | 0.076 (J) | |
| 2/8/2023 | | | 0.092 (J) | 0.077 (J) | | | | <0.1 |
| 2/9/2023 | 0.14 | 0.18 | | | | | | |
| 8/2/2023 | | | 0.054 (J) | | | | | |
| 8/15/2023 | | | | <0.1 | 0.065 (J) | 0.081 (J) | <0.1 | <0.1 |
| 8/16/2023 | 0.078 (J) | 0.18 | | | | | | |
| 8/17/2023 | | | | | | | | |
| 2/20/2024 | | | | 0.073 (J) | 0.094 (J) | 0.1 | 0.063 (J) | <0.1 |
| 2/21/2024 | 0.096 (J) | 0.15 | | | | | | |
| 2/22/2024 | | | 0.075 (J) | | | | | |
| 2/23/2024 | | | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | GWA-2 (bg) | YGWA-1I (bg) | YGWA-3I (bg) | YGWA-1D (bg) | YGWA-30I (bg) | YGWA-14S (bg) | YGWA-3D (bg) | YGWA-5I (bg) | YGWA-4I (bg) |
|---|---|---|---|---|---|---|---|---|---|
| 8/27/2008 | 6.53 | | | | | | | | |
| 3/3/2009 | 6.35 | | | | | | | | |
| 11/18/2009 | 6.47 | | | | | | | | |
| 3/3/2010 | 6.53 | | | | | | | | |
| 3/10/2011 | 5.83 | | | | | | | | |
| 9/8/2011 | 5.69 | | | | | | | | |
| 3/5/2012 | 6.27 | | | | | | | | |
| 9/10/2012 | 6.23 | | | | | | | | |
| 2/6/2013 | 7.56 | | | | | | | | |
| 8/12/2013 | 6.68 | | | | | | | | |
| 2/5/2014 | 6.32 | | | | | | | | |
| 8/3/2015 | 6.13 (D) | | | | | | | | |
| 2/16/2016 | 5.64 | | | | | | | | |
| 6/1/2016 | | 6.33 | 7.72 | 7.46 | | | | | |
| 6/2/2016 | | | | | 5.75 | 5.46 | 7.84 | 5.75 | 6.36 |
| 6/6/2016 | | | | | | | | | |
| 6/7/2016 | | | | | | | | | |
| 6/8/2016 | | | | | | | | | |
| 6/9/2016 | | | | | | | | | |
| 7/25/2016 | | 6.21 | 7.74 | | 5.82 | | | | |
| 7/26/2016 | | | | 7.43 | | 5.45 | 7.88 | 5.72 | 6.22 |
| 7/27/2016 | | | | | | | | | |
| 7/28/2016 | | | | | | | | | |
| 8/1/2016 | | | | | | | | | |
| 8/2/2016 | | | | | | | | | |
| 8/30/2016 | | | | | | | | | |
| 9/13/2016 | | 6.16 | | 7.44 | | | | | |
| 9/14/2016 | | | 7.65 | | | | | 5.74 | 6.23 |
| 9/15/2016 | | | | | | 5.45 | 7.74 | | |
| 9/16/2016 | | | | | | | | | |
| 9/19/2016 | | | | | 5.78 (D) | | | | |
| 9/20/2016 | | | | | | | | | |
| 9/21/2016 | | | | | | | | | |
| 11/1/2016 | | | 7.7 | 7.24 | 5.62 | | 7.75 | | |
| 11/2/2016 | | | | | | 5.41 | | | 6.08 |
| 11/3/2016 | | | | | | | | | |
| 11/4/2016 | | 6.29 | | | | | | 5.61 | |
| 11/7/2016 | | | | | | | | | |
| 11/8/2016 | | | | | | | | | |
| 11/14/2016 | | | | | | | | | |
| 11/28/2016 | 6.23 | | | | | | | | |
| 12/15/2016 | | | | | | | | | |
| 1/10/2017 | | | | | | 5.37 | | | |
| 1/11/2017 | | | 7.53 | 7.3 | | | 7.66 | | |
| 1/12/2017 | | | | | | | | 5.71 | |
| 1/13/2017 | | | | | | | | | 6.19 |
| 1/16/2017 | | 6.29 | | | 5.72 | | | | |
| 1/18/2017 | | | | | | | | | |
| 1/19/2017 | | | | | | | | | |
| 2/21/2017 | | | | | 5.67 | | | | |
| 2/22/2017 | 6.21 | | | | | | | | |
| 2/23/2017 | | | | | | | | | |

# Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | GWA-2 (bg) | YGWA-1I (bg) | YGWA-3I (bg) | YGWA-1D (bg) | YGWA-30I (bg) | YGWA-14S (bg) | YGWA-3D (bg) | YGWA-5I (bg) | YGWA-4I (bg) |
|---|---|---|---|---|---|---|---|---|---|
| 2/24/2017 | | | | | | | | | |
| 3/1/2017 | | | 7.42 | | | | | | |
| 3/2/2017 | | 6.28 | | 7.23 | | | 7.68 | | |
| 3/3/2017 | | | | | | | | | |
| 3/6/2017 | | | | | | | | | 6.2 |
| 3/7/2017 | | | | | | | | 5.66 | |
| 3/8/2017 | | | | | | 5.41 | | | |
| 4/26/2017 | | | 7.4 | | 5.56 | 5.02 | 7.45 | | |
| 4/27/2017 | | 6.09 | | 6.99 | | | | | |
| 4/28/2017 | | | | | | | | | |
| 5/1/2017 | | | | | | | | | 6.21 |
| 5/2/2017 | | | | | | | | 5.65 | |
| 5/3/2017 | | | | | | | | | |
| 5/5/2017 | | | | | | | | | |
| 5/8/2017 | 6.12 | | | | | | | | |
| 5/26/2017 | | | | | | | | | |
| 6/27/2017 | | 6.21 | | 6.87 | | | | 5.7 | |
| 6/28/2017 | | | 7.5 | | | | 7.65 | | |
| 6/29/2017 | | | | | | | | | 6.21 |
| 6/30/2017 | | | | | 5.72 | 5.39 | | | |
| 7/5/2017 | | | | | | | | | |
| 7/7/2017 | | | | | | | | | |
| 7/10/2017 | | | | | | | | | |
| 7/11/2017 | | | | | | | | | |
| 7/17/2017 | 6.03 | | | | | | | | |
| 10/3/2017 | | 5.98 | | 6.81 | | | | 5.79 | |
| 10/4/2017 | | | 7.45 | | 5.87 | | 7.49 | | |
| 10/5/2017 | | | | | | 5.49 | | | 6.16 |
| 10/6/2017 | | | | | | | | | |
| 10/9/2017 | | | | | | | | | |
| 10/10/2017 | | | | | | | | | |
| 10/11/2017 | | | | | | | | | |
| 10/12/2017 | | | | | | | | | |
| 10/16/2017 | 6.12 | | | | | | | | |
| 11/20/2017 | | | | | | | | | |
| 1/10/2018 | | | | | | | | | |
| 1/11/2018 | | | | | | | | | |
| 2/19/2018 | 6.13 | | | | | | | | |
| 2/20/2018 | | | | | | | | | |
| 3/27/2018 | | 6.25 | | | 5.83 | 5.47 | | | |
| 3/28/2018 | | | 7.74 | | | | 7.91 | | |
| 3/29/2018 | | | | 7.38 | | | | 5.63 | 6.09 |
| 3/30/2018 | | | | | | | | | |
| 4/2/2018 | | | | | | | | | |
| 4/3/2018 | | | | | | | | | |
| 6/5/2018 | | | | 7.16 | | | | | |
| 6/6/2018 | | 6.17 | | | | | | | |
| 6/7/2018 | | | | | | | 7.69 | 5.63 | 6.12 |
| 6/8/2018 | | | 7.64 | | | 5.45 | | | |
| 6/11/2018 | | | | | 5.69 | | | | |
| 6/12/2018 | | | | | | | | | |
| 6/13/2018 | | | | | | | | | |

# Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | GWA-2 (bg) | YGWA-1I (bg) | YGWA-3I (bg) | YGWA-1D (bg) | YGWA-30I (bg) | YGWA-14S (bg) | YGWA-3D (bg) | YGWA-5I (bg) | YGWA-4I (bg) |
|---|---|---|---|---|---|---|---|---|---|
| 6/28/2018 | | | | | | | | | |
| 8/6/2018 | 6.01 | | | | | | | | |
| 8/7/2018 | | | | | | | | | |
| 9/19/2018 | | | | | | | | | |
| 9/24/2018 | | | | | | | | | |
| 9/25/2018 | | | | | | | | | |
| 9/26/2018 | | | | | | | | 5.63 | 5.84 |
| 10/1/2018 | | 5.9 | 7.47 | 6.8 | | 5.39 | 7.39 | | |
| 10/2/2018 | | | | | 5.39 | | | | |
| 10/3/2018 | | | | | | | | | |
| 2/25/2019 | 6.51 | | | | | | | | |
| 2/26/2019 | | | | | 5.77 | 5.46 | | | |
| 2/27/2019 | | 5.8 | 7.54 | 6.84 | | | 7.55 | | |
| 3/4/2019 | | | | | | | | 5.75 | 6.18 |
| 3/5/2019 | | | | | | | | | |
| 3/6/2019 | | | | | | | | | |
| 3/26/2019 | | | | | | | | | |
| 3/27/2019 | | | | | | | | | |
| 3/28/2019 | | 6.15 | | 6.99 | | | | | |
| 3/29/2019 | | | | | | 5.34 | | | |
| 4/1/2019 | | | 7.74 | | 5.62 | | 7.87 | | |
| 4/2/2019 | | | | | | | | | |
| 4/3/2019 | | | | | | | | 5.63 | 6.43 |
| 6/12/2019 | 6.3 | | | | | | | | |
| 8/19/2019 | 6.23 | | | | | | | | |
| 8/20/2019 | | | | | | | | | |
| 8/21/2019 | | | | | | | | | |
| 9/24/2019 | | 6.23 | | 7.07 | | | | 5.6 | |
| 9/25/2019 | | | 7.47 | | 5.69 | 5.19 | 7.64 | | 6.2 |
| 9/26/2019 | | | | | | | | | |
| 10/8/2019 | 6.28 | | | | | | | | |
| 10/9/2019 | | | | | | | | | |
| 2/10/2020 | | 6.1 | | 7.2 | | | | | |
| 2/11/2020 | | | 7.09 | | | | | | |
| 2/12/2020 | | | | | 5.8 | 5.48 | 7.83 | 5.83 | 6.15 |
| 2/13/2020 | | | | | | | | | |
| 3/17/2020 | 6.14 | | | | | | | | |
| 3/18/2020 | | 6.19 | | | | 5.38 | | | |
| 3/19/2020 | | | 7.31 | 7.03 | 6 | | 7.65 | | |
| 3/20/2020 | | | | | | | | | |
| 3/24/2020 | | | | | | | | 5.81 | |
| 3/25/2020 | | | | | | | | | 6.26 |
| 5/6/2020 | 6.24 | | | | | | | | |
| 8/26/2020 | 5.67 | | | | | | | | |
| 8/27/2020 | | | | | | | | | |
| 9/22/2020 | 5.78 | | | | | | | 5.99 | 5.8 |
| 9/23/2020 | | 6.01 | 7.37 | 7.15 | | | 7.57 | | |
| 9/24/2020 | | | | | 5.67 | | | | |
| 9/25/2020 | | | | | | 5.44 | | | |
| 2/8/2021 | | | | | | | | 5.67 | |
| 2/9/2021 | | | | | | | | | 6.06 |
| 2/10/2021 | | | 7.58 | | | 5.35 | 7.81 | | |

# Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | GWA-2 (bg) | YGWA-1I (bg) | YGWA-3I (bg) | YGWA-1D (bg) | YGWA-30I (bg) | YGWA-14S (bg) | YGWA-3D (bg) | YGWA-5I (bg) | YGWA-4I (bg) |
|---|---|---|---|---|---|---|---|---|---|
| 2/11/2021 | | | | | 5.73 | | | | |
| 2/12/2021 | | 6.21 | | 7.14 | | | | | |
| 3/1/2021 | | | | | 5.78 | | | | |
| 3/2/2021 | 5.42 | | | | | 5.49 | | 5.63 | |
| 3/3/2021 | | 5.38 | 8.23 | 7.2 | | | 8.39 | | 6.21 |
| 3/4/2021 | | | | | | | | | |
| 8/19/2021 | | 6.38 | | 6.32 | | 7.32 | 5.34 | | |
| 8/20/2021 | 5.86 | | | | | | | | |
| 8/26/2021 | | | | | | | | 5.51 | 5.82 |
| 8/27/2021 | | | 7.39 | | | | | | |
| 9/1/2021 | | | | | | | | | |
| 9/3/2021 | | | | | | | | | |
| 2/8/2022 | 5.83 | | | | | | | | |
| 2/9/2022 | | 6.24 | 7.66 | 7.12 | | | 7.97 | | |
| 2/10/2022 | | | | | | 4.5 | | 5.14 | |
| 2/11/2022 | | | | | 5.59 | | | | 5.95 |
| 8/30/2022 | 5.39 | | | 7.2 | | | | 5 | |
| 8/31/2022 | | 5.64 | 7.49 | | 5.87 | 5.15 | 7.65 | | 5.5 |
| 9/1/2022 | | | | | | | | | |
| 2/7/2023 | 5.94 | 6.53 | | 7.86 | | | | | |
| 2/8/2023 | | | 7.73 | | 6.43 | 5.39 | 7.88 | | |
| 2/9/2023 | | | | | | | | 5.9 | 6.23 |
| 8/2/2023 | | | | | | | | | |
| 8/15/2023 | 5.3 | 5.88 | | 6.98 | | 5.03 | 7.69 | 5.58 | 5.99 |
| 8/16/2023 | | | 7.39 | | 5.55 | | | | |
| 8/17/2023 | | | | | | | | | |
| 2/20/2024 | 6.07 | 6.42 | 7.59 | 7.06 | 5.81 | | 7.81 | 5.78 | 6.21 |
| 2/21/2024 | | | | | | | | | |
| 2/22/2024 | | | | | | | | | |
| 2/23/2024 | | | | | | 5.39 | | | |

# Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-5D (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-21I (bg) | YGWA-20S (bg) | YGWA-17S (bg) | YGWC-27I | YGWC-26I | YGWC-27S |
|---|---|---|---|---|---|---|---|---|---|
| 8/27/2008 | | | | | | | | | |
| 3/3/2009 | | | | | | | | | |
| 11/18/2009 | | | | | | | | | |
| 3/3/2010 | | | | | | | | | |
| 3/10/2011 | | | | | | | | | |
| 9/8/2011 | | | | | | | | | |
| 3/5/2012 | | | | | | | | | |
| 9/10/2012 | | | | | | | | | |
| 2/6/2013 | | | | | | | | | |
| 8/12/2013 | | | | | | | | | |
| 2/5/2014 | | | | | | | | | |
| 8/3/2015 | | | | | | | | | |
| 2/16/2016 | | | | | | | | | |
| 6/1/2016 | | | | | | | | | |
| 6/2/2016 | 7.67 | | | | | | | | |
| 6/6/2016 | | 6.17 | 5.71 | | | | | | |
| 6/7/2016 | | | | 6.1 | 5.77 | 5.62 | | | |
| 6/8/2016 | | | | | | | 6.32 | 5.85 | 6.24 |
| 6/9/2016 | | | | | | | | | |
| 7/25/2016 | | | | | | | | | |
| 7/26/2016 | 7.66 | | | | | | | | |
| 7/27/2016 | | 6.14 | 5.46 | | 5.79 | 5.59 | | | |
| 7/28/2016 | | | | 6.12 | | | | | |
| 8/1/2016 | | | | | | | 6.34 | 5.83 | 6.12 |
| 8/2/2016 | | | | | | | | | |
| 8/30/2016 | | | | | | | | | |
| 9/13/2016 | | | | | | | | | |
| 9/14/2016 | 7.6 | | | | | | | | |
| 9/15/2016 | | | | | | | | | |
| 9/16/2016 | | | | | | 5.58 | | | |
| 9/19/2016 | | 6.04 | 5.59 | 6.12 | 5.73 | | | | |
| 9/20/2016 | | | | | | | 6.36 | 5.89 | 6.3 |
| 9/21/2016 | | | | | | | | | |
| 11/1/2016 | | | | | | | | | |
| 11/2/2016 | 7.35 | | | | 5.67 | | | | |
| 11/3/2016 | | 5.97 | 5.39 | 6.07 | | 5.59 | | | |
| 11/4/2016 | | | | | | | | | |
| 11/7/2016 | | | | | | | 6.3 | 5.91 | 6.25 |
| 11/8/2016 | | | | | | | | | |
| 11/14/2016 | | | | | | | | | |
| 11/28/2016 | | | | | | | | | |
| 12/15/2016 | | | | | | | | | |
| 1/10/2017 | | | | | | | | | |
| 1/11/2017 | | 6.05 | 5.48 | | | 5.59 | | | |
| 1/12/2017 | 7.49 | | | | | | | | |
| 1/13/2017 | | | | 6.41 | 5.79 | | | | |
| 1/16/2017 | | | | | | | | | |
| 1/18/2017 | | | | | | | 6.31 | 5.84 | |
| 1/19/2017 | | | | | | | | | 6.2 |
| 2/21/2017 | | | | | | | | 5.79 | |
| 2/22/2017 | | | | | | | | | 6.14 |
| 2/23/2017 | | | | | | | 6.18 | | |

# Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-5D (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-21I (bg) | YGWA-20S (bg) | YGWA-17S (bg) | YGWC-27I | YGWC-26I | YGWC-27S |
|---|---|---|---|---|---|---|---|---|---|
| 2/24/2017 | | | | | | | | | |
| 3/1/2017 | | 5.94 | 5.41 | | | | | | |
| 3/2/2017 | | | | | | 5.54 | | | |
| 3/3/2017 | | | | | | | | | |
| 3/6/2017 | | | | 6.34 | 5.63 | | | | |
| 3/7/2017 | 7.43 | | | | | | | | |
| 3/8/2017 | | | | | | | | | |
| 4/26/2017 | | 5.99 | 5.4 | 6.32 | 5.66 | | | | |
| 4/27/2017 | | | | | | | | | |
| 4/28/2017 | | | | | | | | | |
| 5/1/2017 | 7.22 | | | | | | | | |
| 5/2/2017 | | | | | | 5.47 | | | |
| 5/3/2017 | | | | | | | | | |
| 5/5/2017 | | | | | | | | | |
| 5/8/2017 | | | | | | | 6.24 | 5.84 | 6.11 |
| 5/26/2017 | | | | | | | | | |
| 6/27/2017 | 7.32 | | | | | | | | |
| 6/28/2017 | | 6 | 5.36 | | | | | | |
| 6/29/2017 | | | | 6.47 | 5.85 | 5.56 | | | |
| 6/30/2017 | | | | | | | 6.21 | | 6.17 |
| 7/5/2017 | | | | | | | | | |
| 7/7/2017 | | | | | | | | | |
| 7/10/2017 | | | | | | | | 5.92 | |
| 7/11/2017 | | | | | | | | | |
| 7/17/2017 | | | | | | | | | |
| 10/3/2017 | 7.48 | | | 6.56 | | | | | |
| 10/4/2017 | | | 5.32 | | 5.83 | 5.57 | | | |
| 10/5/2017 | | 6.11 | | | | | | | |
| 10/6/2017 | | | | | | | | | 6.13 |
| 10/9/2017 | | | | | | | 6.26 | | |
| 10/10/2017 | | | | | | | | 5.84 | |
| 10/11/2017 | | | | | | | | | |
| 10/12/2017 | | | | | | | | | |
| 10/16/2017 | | | | | | | | | |
| 11/20/2017 | | | | | | | | | |
| 1/10/2018 | | | | | | | | | |
| 1/11/2018 | | | | | | | | | |
| 2/19/2018 | | | | | | | | | |
| 2/20/2018 | | | | | | | | | |
| 3/27/2018 | | | | | | | | | |
| 3/28/2018 | | 6.1 | 5.34 | | | 5.59 | | | |
| 3/29/2018 | 7.02 | | | 6.75 | 5.93 | | 6.36 | | 6.25 |
| 3/30/2018 | | | | | | | | 6.19 | |
| 4/2/2018 | | | | | | | | | |
| 4/3/2018 | | | | | | | | | |
| 6/5/2018 | | | | 6.09 | | | | | |
| 6/6/2018 | 7.43 | | | | 5.86 | | | | |
| 6/7/2018 | | 5.98 | | | | | | | |
| 6/8/2018 | | | | | | | | | |
| 6/11/2018 | | | 5.28 | | | 5.58 | | | |
| 6/12/2018 | | | | | | | | | 6.22 |
| 6/13/2018 | | | | | | | 6.28 | 5.82 | |

# Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-5D (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-21I (bg) | YGWA-20S (bg) | YGWA-17S (bg) | YGWC-27I | YGWC-26I | YGWC-27S |
|---|---|---|---|---|---|---|---|---|---|
| 6/28/2018 | | | | | | | | | |
| 8/6/2018 | | | | | | | | | |
| 8/7/2018 | | | | | | | | | |
| 9/19/2018 | | | | | | | | | |
| 9/24/2018 | | | | | | | | | |
| 9/25/2018 | | 5.81 | 4.86 | 6.67 | 5.84 | 5.59 | | | |
| 9/26/2018 | 7.13 | | | | | | | | |
| 10/1/2018 | | | | | | | | | |
| 10/2/2018 | | | | | | | 5.9 | 5.81 | 5.99 |
| 10/3/2018 | | | | | | | | | |
| 2/25/2019 | | | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 2/27/2019 | | | | | | | 6.31 | 5.79 | 6.26 |
| 3/4/2019 | 7.46 | | | | | | | | |
| 3/5/2019 | | | 5.26 | 7.22 | 6.07 | 5.48 | | | |
| 3/6/2019 | | 5.99 | | | | | | | |
| 3/26/2019 | | | | | | | | | |
| 3/27/2019 | | | | | | | | | |
| 3/28/2019 | | | | | | | | | |
| 3/29/2019 | | | | | | | | | |
| 4/1/2019 | | | | | | | 6.43 | | 6.4 |
| 4/2/2019 | | | | 6.94 | | 5.74 | | 5.87 | |
| 4/3/2019 | 7.11 | 6.29 | 5.47 | | 5.71 | | | | |
| 6/12/2019 | | | | | | | | | |
| 8/19/2019 | | | | | | | | | |
| 8/20/2019 | | | | | | | | | |
| 8/21/2019 | | | | | | | | | |
| 9/24/2019 | 6.93 | | | 6.87 | | | | | |
| 9/25/2019 | | | | | 5.86 | 5.49 | | 5.79 | |
| 9/26/2019 | | 6.04 | 5.2 | | | | 6.3 | | 6.22 |
| 10/8/2019 | | | | | | | | | |
| 10/9/2019 | | | | | | | | | |
| 2/10/2020 | | | | | | | | | |
| 2/11/2020 | | 6.07 | 5.3 | | | 5.58 | | | |
| 2/12/2020 | 7.52 | | | 7.13 | 6 | | | | |
| 2/13/2020 | | | | | | | 6.4 | 5.93 | 6.31 |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | | | | | | | | | |
| 3/19/2020 | | | | | | | | | |
| 3/20/2020 | | | | | | | 6.32 | 5.94 | 6.18 |
| 3/24/2020 | 7.34 | 5.98 | 5.33 | 6.35 | 5.86 | 5.57 | | | |
| 3/25/2020 | | | | | | | | | |
| 5/6/2020 | | | | | | | | | |
| 8/26/2020 | | | | | | | | | |
| 8/27/2020 | | | | | | | | | |
| 9/22/2020 | 7.19 | | | | | | | | |
| 9/23/2020 | | 6.01 | 5.29 | | | 5.58 | | | |
| 9/24/2020 | | | | 6.7 | 5.8 | | 6.36 | 5.86 | 6.27 |
| 9/25/2020 | | | | | | | | | |
| 2/8/2021 | | | | | | | | | |
| 2/9/2021 | | 6.12 | 5.43 | 6.95 | 5.86 | | | | |
| 2/10/2021 | | | | | | | 6.29 | 5.96 | 6.21 |

# Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-5D (bg) | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-21I (bg) | YGWA-20S (bg) | YGWA-17S (bg) | YGWC-27I | YGWC-26I | YGWC-27S |
|---|---|---|---|---|---|---|---|---|---|
| 2/11/2021 | | | | | | | | | |
| 2/12/2021 | | | | | | | | | |
| 3/1/2021 | | | | | | | | | |
| 3/2/2021 | 7.15 | | | | | | | | |
| 3/3/2021 | | 5.89 | 5.31 | | 5.89 | 5.52 | 6.43 | 5.93 | 6.35 |
| 3/4/2021 | | | | 6.8 | | | | | |
| 8/19/2021 | | | | | | | | | |
| 8/20/2021 | | | | | | | 6.17 | 5.78 | 6.18 |
| 8/26/2021 | 7.16 | | 4.4 | | | | | | |
| 8/27/2021 | | 5.4 | | | 5.57 | 5.27 | | | |
| 9/1/2021 | | | | 6.65 | | | | | |
| 9/3/2021 | | | | | | | | | |
| 2/8/2022 | | | | | | | | | 6.22 |
| 2/9/2022 | | 5.98 | 5.28 | 6.84 | 5.91 | 5.53 | | | |
| 2/10/2022 | 6.99 | | | | | | 6.23 | 5.84 | |
| 2/11/2022 | | | | | | | | | |
| 8/30/2022 | 7.4 | 5.82 | 5.18 | 6.58 | | 4.68 | | | |
| 8/31/2022 | | | | | 5.38 | | | 5.77 | |
| 9/1/2022 | | | | | | | 6.13 | | 6.13 |
| 2/7/2023 | 6.64 | 6 | 5.03 | 6.82 | 5.63 | 5.47 | | | |
| 2/8/2023 | | | | | | | | | |
| 2/9/2023 | | | | | | | 6.48 | 5.76 | 6.64 |
| 8/2/2023 | | | | | | | | | |
| 8/15/2023 | 7.34 | 5.82 | 5.2 | 6.84 | 7 | 5.54 | | | |
| 8/16/2023 | | | | | | | | | |
| 8/17/2023 | | | | | | | 6.2 | 5.77 | 6.06 |
| 2/20/2024 | 7.56 | 6.11 | | 6.78 | 5.99 | 5.64 | | | |
| 2/21/2024 | | | | | | | 6.43 | | 6.26 |
| 2/22/2024 | | | | | | | | 5.92 | |
| 2/23/2024 | | | 5.3 | | | | | | |

# Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26S | YGWC-29IB | YGWC-28I | YGWC-28S | YGWA-47 (bg) | YGWA-2I (bg) | YGWA-39 (bg) | 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 | | | | | | | | |
| 2/6/2013 | | | | | | | | |
| 8/12/2013 | | | | | | | | |
| 2/5/2014 | | | | | | | | |
| 8/3/2015 | | | | | | | | |
| 2/16/2016 | | | | | | | | |
| 6/1/2016 | | | | | | | | |
| 6/2/2016 | | | | | | | | |
| 6/6/2016 | | | | | | | | |
| 6/7/2016 | | | | | | | | |
| 6/8/2016 | 5.24 | | | | | | | |
| 6/9/2016 | | 6.19 | 6.42 | 6.39 | | | | |
| 7/25/2016 | | | | | | | | |
| 7/26/2016 | | | | | | | | |
| 7/27/2016 | | | | | | | | |
| 7/28/2016 | | | | | | | | |
| 8/1/2016 | 5.17 | | | | | | | |
| 8/2/2016 | | 6.17 | 6.43 | 6.35 | | | | |
| 8/30/2016 | | | | | 5.75 | | | |
| 9/13/2016 | | | | | | 7.41 | | |
| 9/14/2016 | | | | | | | | |
| 9/15/2016 | | | | | | | | |
| 9/16/2016 | | | | | | | | |
| 9/19/2016 | | | | | | | | |
| 9/20/2016 | 5.35 | | | | | | | |
| 9/21/2016 | | 6.2 | 6.45 | 6.39 | | | | |
| 11/1/2016 | | | | | | | | |
| 11/2/2016 | | | | | | | | |
| 11/3/2016 | | | | | | | | |
| 11/4/2016 | | | | | | 7.12 | | |
| 11/7/2016 | 5.35 | 6.1 | | 6.36 | | | | |
| 11/8/2016 | | | 6.37 | | | | | |
| 11/14/2016 | | | | | 5.59 | | | |
| 11/28/2016 | | | | | | | | |
| 12/15/2016 | | | | | | 7.24 | | |
| 1/10/2017 | | | | | | | | |
| 1/11/2017 | | | | | | | | |
| 1/12/2017 | | | | | | | | |
| 1/13/2017 | | | | | | | | |
| 1/16/2017 | | | | | | 7.24 | | |
| 1/18/2017 | 5.2 | | 6.27 | 6.23 | | | | |
| 1/19/2017 | | 6.22 | | | | | | |
| 2/21/2017 | 5.14 | | | 6.42 | | | | |
| 2/22/2017 | | 6.12 | 6.35 | | | | | |
| 2/23/2017 | | | | | | | | |

# Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26S | YGWC-29IB | YGWC-28I | YGWC-28S | YGWA-47 (bg) | YGWA-2I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|---|
| 2/24/2017 | | | | | 5.49 | | | |
| 3/1/2017 | | | | | | | | |
| 3/2/2017 | | | | | | | | |
| 3/3/2017 | | | | | | 7.22 | | |
| 3/6/2017 | | | | | | | | |
| 3/7/2017 | | | | | | | | |
| 3/8/2017 | | | | | | | | |
| 4/26/2017 | | | | | | | | |
| 4/27/2017 | | | | | | | | |
| 4/28/2017 | | | | | | 7.21 | | |
| 5/1/2017 | | | | | | | | |
| 5/2/2017 | | | | | | | | |
| 5/3/2017 | 5.28 | | | | | | | |
| 5/5/2017 | | | 6.36 | 6.4 | | | | |
| 5/8/2017 | | 6.11 | | | 5.58 | | | |
| 5/26/2017 | | | | | | 7.13 | | |
| 6/27/2017 | | | | | | | | |
| 6/28/2017 | | | | | | 7.06 | | |
| 6/29/2017 | | | | | | | | |
| 6/30/2017 | | | | | | | | |
| 7/5/2017 | | 6.17 | 6.4 | | | | | |
| 7/7/2017 | | | | 6.46 | | | | |
| 7/10/2017 | 5.25 | | | | | | | |
| 7/11/2017 | | | | | 5.58 | | | |
| 7/17/2017 | | | | | | | | |
| 10/3/2017 | | | | | | 6.99 | | |
| 10/4/2017 | | | | | | | | |
| 10/5/2017 | | 6.17 | 6.43 | | | | | |
| 10/6/2017 | | | | | | | | |
| 10/9/2017 | | | | 6.37 | | | | |
| 10/10/2017 | 5.17 | | | | 5.49 | | | |
| 10/11/2017 | | | | | | | 6.4 | |
| 10/12/2017 | | | | | | | | 5.43 |
| 10/16/2017 | | | | | | | | |
| 11/20/2017 | | | | | | | 6.33 | 5.1 |
| 1/10/2018 | | | | | | | | 4.97 |
| 1/11/2018 | | | | | | | 6.29 | |
| 2/19/2018 | | | | | | | | 5.6 |
| 2/20/2018 | | | | | | | 7.22 | |
| 3/27/2018 | | | | | | | | |
| 3/28/2018 | | | | | | 7.3 | | |
| 3/29/2018 | | 6.09 | | | | | | |
| 3/30/2018 | 5.19 | | 6.39 | 6.35 | | | | |
| 4/2/2018 | | | | | 6.3 (o) | | | |
| 4/3/2018 | | | | | | | 6.87 | 5.84 |
| 6/5/2018 | | | | | | | | |
| 6/6/2018 | | | | | | | | |
| 6/7/2018 | | | | | | 7.29 | | |
| 6/8/2018 | | | | | | | | |
| 6/11/2018 | | 6.17 | | | | | | |
| 6/12/2018 | | | 6.42 | 6.47 | | | | |
| 6/13/2018 | 5.12 | | | | | | | |

# Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26S | YGWC-29IB | YGWC-28I | YGWC-28S | YGWA-47 (bg) | YGWA-2I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|---|
| 6/28/2018 | | | | | | | 6.18 | 5.24 |
| 8/6/2018 | | | | | | | | |
| 8/7/2018 | | | | | | | 6.08 | 5.18 |
| 9/19/2018 | | | | | 5.48 | | | |
| 9/24/2018 | | | | | | | 5.81 | 5.14 |
| 9/25/2018 | | | | | | | | |
| 9/26/2018 | | | | | | | | |
| 10/1/2018 | | | | | | 7.07 | | |
| 10/2/2018 | 4.95 | 6.17 | | | | | | |
| 10/3/2018 | | | 6.21 | 6.01 | | | | |
| 2/25/2019 | | | | | | | | |
| 2/26/2019 | | | | | | | | |
| 2/27/2019 | 5 | 6.19 | 6.32 | 6.38 | | 7.27 | | |
| 3/4/2019 | | | | | | | | |
| 3/5/2019 | | | | | | | | |
| 3/6/2019 | | | | | | | | |
| 3/26/2019 | | | | | | | | 5.3 |
| 3/27/2019 | | | | | 5.83 | | 5.84 | |
| 3/28/2019 | | | | | | | | |
| 3/29/2019 | | | | | | 7.06 | | |
| 4/1/2019 | | 6.03 | 6.3 | | | | | |
| 4/2/2019 | 5.13 | | | 6.7 | | | | |
| 4/3/2019 | | | | | | | | |
| 6/12/2019 | | | | | | | | |
| 8/19/2019 | | | | | | | | |
| 8/20/2019 | | | | | 5.58 | | | |
| 8/21/2019 | | | | | | | 5.96 | 5.26 |
| 9/24/2019 | | | | | | 7.01 | | |
| 9/25/2019 | 5.24 | 6.21 | | | | | | |
| 9/26/2019 | | | 6.43 | 6.47 | | | | |
| 10/8/2019 | | | | | 5.59 | | | |
| 10/9/2019 | | | | | | | 5.81 | 5.22 |
| 2/10/2020 | | | | | | | | |
| 2/11/2020 | | | | | | 7.38 | | |
| 2/12/2020 | | | | | | | 5.97 | 5.3 |
| 2/13/2020 | 5.29 | 6.32 | 6.49 | 6.53 | | | | |
| 3/17/2020 | | | | | 5.57 | | | |
| 3/18/2020 | | | | | | | | |
| 3/19/2020 | 5.46 | | 7.01 | 6.98 | | 7.22 | | |
| 3/20/2020 | | 6.17 | | | | | | |
| 3/24/2020 | | | | | | | | 5.29 |
| 3/25/2020 | | | | | | | 5.78 | |
| 5/6/2020 | | | | | | | | |
| 8/26/2020 | | | | | | | | |
| 8/27/2020 | | | | | 4.88 | | | |
| 9/22/2020 | | | | | 5.46 | | | |
| 9/23/2020 | | | | | | 7.22 | | |
| 9/24/2020 | 5.46 | 6.2 | 6.41 | 6.53 | | | 5.7 | 5.43 |
| 9/25/2020 | | | | | | | | |
| 2/8/2021 | | | | | | | | |
| 2/9/2021 | | | | | | | | |
| 2/10/2021 | 5.18 | | | | | 7.29 | 5.8 | 5.19 |

# Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26S | YGWC-29IB | YGWC-28I | YGWC-28S | YGWA-47 (bg) | YGWA-2I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|---|
| 2/11/2021 | | | 6.57 | | | | | |
| 2/12/2021 | | 6.24 | | 6.6 | | | | |
| 3/1/2021 | | | | | 5.48 | | | |
| 3/2/2021 | 5.38 | | | | | | | |
| 3/3/2021 | | 6.27 | 6.51 | 6.61 | | 7.92 | | |
| 3/4/2021 | | | | | | | 5.54 | 5.23 |
| 8/19/2021 | 5.12 | | | | 5.5 | | | |
| 8/20/2021 | | 6.07 | 6.23 | 6.38 | | | | |
| 8/26/2021 | | | | | | | 6.91 | |
| 8/27/2021 | | | | | | 7.14 | | |
| 9/1/2021 | | | | | | | | |
| 9/3/2021 | | | | | | | | 4.75 |
| 2/8/2022 | | 5.88 | 6.34 | 6.3 | 5.4 | | 5.78 | 5.26 |
| 2/9/2022 | | | | | | 5.89 | | |
| 2/10/2022 | 5.31 | | | | | | | |
| 2/11/2022 | | | | | | | | |
| 8/30/2022 | | | | | | 7.04 | | |
| 8/31/2022 | 5.61 | | | | 5.32 | | 5.3 | 4.53 |
| 9/1/2022 | | 6.05 | 6.41 | 6.59 | | | | |
| 2/7/2023 | | | | | | 6.94 | 5.49 | |
| 2/8/2023 | | 6.67 | | | 5.22 | | | 5.71 |
| 2/9/2023 | 5.64 | | 6.7 | 6.87 | | | | |
| 8/2/2023 | | 6.04 | | | | | | |
| 8/15/2023 | | | | | 5.69 | 6.96 | 5.78 | 5 |
| 8/16/2023 | | | 6.3 | 6.36 | | | | |
| 8/17/2023 | 5.38 | | | | | | | |
| 2/20/2024 | | | | | 5.62 | 7.23 | 5.97 | 5.32 |
| 2/21/2024 | | | 6.43 | 6.49 | | | | |
| 2/22/2024 | 5.58 | 6.01 | | | | | | |
| 2/23/2024 | | | | | | | | |

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-1I (bg) | YGWA-3I (bg) | YGWA-1D (bg) | YGWA-14S (bg) | YGWA-4I (bg) | YGWA-30I (bg) | YGWA-5I (bg) | YGWA-3D (bg) | YGWA-5D (bg) |
|---|---|---|---|---|---|---|---|---|---|
| 6/1/2016 | 4.2 | 12 | 5 | | | | | | |
| 6/2/2016 | | | | 6.6 | 8 | 1.3 | 1.9 | 5.8 | 20 |
| 6/6/2016 | | | | | | | | | |
| 6/7/2016 | | | | | | | | | |
| 6/8/2016 | | | | | | | | | |
| 6/9/2016 | | | | | | | | | |
| 7/25/2016 | 3.7 | 8.4 | | | | 1.2 | | | |
| 7/26/2016 | | | 5.4 | 6.1 | 7.7 | | 1.8 | 6.7 | 20 |
| 7/27/2016 | | | | | | | | | |
| 7/28/2016 | | | | | | | | | |
| 8/1/2016 | | | | | | | | | |
| 8/2/2016 | | | | | | | | | |
| 8/30/2016 | | | | | | | | | |
| 8/31/2016 | | | | | | | | | |
| 9/13/2016 | 5.2 | | 2.9 | | | | | | |
| 9/14/2016 | | 8.6 | | | 7.5 | | 1.8 | | 19 |
| 9/15/2016 | | | | 6.1 | | | | 6 | |
| 9/16/2016 | | | | | | | | | |
| 9/19/2016 | | | | | | 1.2 | | | |
| 9/20/2016 | | | | | | | | | |
| 9/21/2016 | | | | | | | | | |
| 11/1/2016 | | 8.9 | 3.9 | | | 1.3 | | 4.9 | |
| 11/2/2016 | | | | 6.3 | 8.2 | | | | 20 |
| 11/3/2016 | | | | | | | | | |
| 11/4/2016 | 5 | | | | | | 2 | | |
| 11/7/2016 | | | | | | | | | |
| 11/8/2016 | | | | | | | | | |
| 11/14/2016 | | | | | | | | | |
| 11/28/2016 | | | | | | | | | |
| 12/15/2016 | | | | | | | | | |
| 1/10/2017 | | | | 5.9 | | | | | |
| 1/11/2017 | | 8.6 | 3.7 | | | | | 4.5 | |
| 1/12/2017 | | | | | | | 1.9 | | 19 |
| 1/13/2017 | | | | | 8.1 | | | | |
| 1/16/2017 | 7.9 | | | | | <1 | | | |
| 1/18/2017 | | | | | | | | | |
| 1/19/2017 | | | | | | | | | |
| 2/21/2017 | | | | | | 1.4 | | | |
| 2/22/2017 | | | | | | | | | |
| 2/23/2017 | | | | | | | | | |
| 2/24/2017 | | | | | | | | | |
| 3/1/2017 | | 9.3 | | | | | | | |
| 3/2/2017 | 7.4 | | 4.6 | | | | | 4.4 | |
| 3/3/2017 | | | | | | | | | |
| 3/6/2017 | | | | | 8 | | | | |
| 3/7/2017 | | | | | | | 2.1 | | 20 |
| 3/8/2017 | | | | 7 | | | | | |
| 4/26/2017 | | 11 | | 7 | | 1.4 | | 5.1 | |
| 4/27/2017 | 7.4 | | 5.2 | | | | | | |
| 4/28/2017 | | | | | | | | | |
| 5/1/2017 | | | | | 8.4 | | | | 20 |
| 5/2/2017 | | | | | | | 2 | | |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-1I (bg) | YGWA-3I (bg) | YGWA-1D (bg) | YGWA-14S (bg) | YGWA-4I (bg) | YGWA-30I (bg) | YGWA-5I (bg) | YGWA-3D (bg) | YGWA-5D (bg) |
|---|---|---|---|---|---|---|---|---|---|
| 5/3/2017 | | | | | | | | | |
| 5/5/2017 | | | | | | | | | |
| 5/8/2017 | | | | | | | | | |
| 5/26/2017 | | | | | | | | | |
| 6/27/2017 | 6.4 | | 5.9 | | | | 2.1 | | 18 |
| 6/28/2017 | | 12 | | | | | | 5.4 | |
| 6/29/2017 | | | | | 9.2 | | | | |
| 6/30/2017 | | | | 6.5 | | <1 | | | |
| 7/5/2017 | | | | | | | | | |
| 7/7/2017 | | | | | | | | | |
| 7/10/2017 | | | | | | | | | |
| 7/11/2017 | | | | | | | | | |
| 7/17/2017 | | | | | | | | | |
| 10/3/2017 | 5.9 | | 6.6 | | | | 2.3 | | 16 |
| 10/4/2017 | | 12 | | | | 1.4 | | 6.2 | |
| 10/5/2017 | | | | 7.9 | 9.6 | | | | |
| 10/6/2017 | | | | | | | | | |
| 10/9/2017 | | | | | | | | | |
| 10/10/2017 | | | | | | | | | |
| 10/11/2017 | | | | | | | | | |
| 10/12/2017 | | | | | | | | | |
| 10/16/2017 | | | | | | | | | |
| 11/20/2017 | | | | | | | | | |
| 1/10/2018 | | | | | | | | | |
| 1/11/2018 | | | | | | | | | |
| 2/19/2018 | | | | | | | | | |
| 2/20/2018 | | | | | | | | | |
| 4/2/2018 | | | | | | | | | |
| 4/3/2018 | | | | | | | | | |
| 6/5/2018 | | | 6.4 | | | | | | |
| 6/6/2018 | 4.4 | | | | | | | | 8.3 |
| 6/7/2018 | | | | | 8.5 | | 2 | 6.7 | |
| 6/8/2018 | | 9.6 | | 6.4 | | | | | |
| 6/11/2018 | | | | | | 1.1 | | | |
| 6/12/2018 | | | | | | | | | |
| 6/13/2018 | | | | | | | | | |
| 6/28/2018 | | | | | | | | | |
| 8/6/2018 | | | | | | | | | |
| 8/7/2018 | | | | | | | | | |
| 9/19/2018 | | | | | | | | | |
| 9/24/2018 | | | | | | | | | |
| 9/25/2018 | | | | | | | | | |
| 9/26/2018 | | | | | 10.2 | | 2.3 | | 7.9 |
| 10/1/2018 | 4 | 9.1 | 5.6 | 6.8 | | | | 7.1 | |
| 10/2/2018 | | | | | | 1 | | | |
| 10/3/2018 | | | | | | | | | |
| 2/25/2019 | | | | | | | | | |
| 3/26/2019 | | | | | | | | | |
| 3/27/2019 | | | | | | | | | |
| 3/28/2019 | 4.3 | | 8 | | | | | | |
| 3/29/2019 | | | | 7.3 | | | | | |
| 4/1/2019 | | 8.5 | | | | 0.96 (J) | | 7.2 | |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-1I (bg) | YGWA-3I (bg) | YGWA-1D (bg) | YGWA-14S (bg) | YGWA-4I (bg) | YGWA-30I (bg) | YGWA-5I (bg) | YGWA-3D (bg) | YGWA-5D (bg) |
|---|---|---|---|---|---|---|---|---|---|
| 4/2/2019 | | | | | | | | | |
| 4/3/2019 | | | | | 8.5 | | 2.1 | | 7 |
| 6/12/2019 | | | | | | | | | |
| 9/24/2019 | 4.3 | | 5.3 | | | | 2.4 | | 5.5 |
| 9/25/2019 | | 13.8 | | 6.6 | 8.5 | 0.81 (J) | | 7 | |
| 9/26/2019 | | | | | | | | | |
| 10/8/2019 | | | | | | | | | |
| 10/9/2019 | | | | | | | | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 5.3 | | | 8.1 | | | | | |
| 3/19/2020 | | 12.9 | 10 | | | 1.6 | | 9 | |
| 3/20/2020 | | | | | | | | | |
| 3/24/2020 | | | | | | | 2.1 | | 5.9 |
| 3/25/2020 | | | | | 8.8 | | | | |
| 9/22/2020 | | | | | 8.2 | | 2.1 | | 5.5 |
| 9/23/2020 | 3.4 | 16.8 | 8.1 | | | | | 6.9 | |
| 9/24/2020 | | | | | | 0.69 (J) | | | |
| 9/25/2020 | | | | 6.1 | | | | | |
| 3/1/2021 | | | | | | 0.88 (J) | | | |
| 3/2/2021 | | | | 6 | | | 2.3 | | 2.6 |
| 3/3/2021 | 4.4 | 9.6 | 9 | | 7.8 | | | 7 | |
| 3/4/2021 | | | | | | | | | |
| 8/19/2021 | 4.9 | | 8.9 | 6.7 | | 1 | | 7.5 | |
| 8/20/2021 | | | | | | | | | |
| 8/26/2021 | | | | | 8.5 | | 2.4 | | 6 |
| 8/27/2021 | | 18.2 | | | | | | | |
| 9/1/2021 | | | | | | | | | |
| 9/3/2021 | | | | | | | | | |
| 2/8/2022 | | | | | | | | | |
| 2/9/2022 | 5.1 | 16 | 9.3 | | | | | 7.2 | |
| 2/10/2022 | | | | 6.2 | | | 2.4 | | 4.9 |
| 2/11/2022 | | | | | 7.7 | 2.8 | | | |
| 8/30/2022 | | | 10.2 | | | | 2.4 | | 5.7 |
| 8/31/2022 | 4.8 | 13.9 | | 5.8 | 8 | 1.1 | | 6.9 | |
| 9/1/2022 | | | | | | | | | |
| 2/7/2023 | 6.6 | | 10.6 | | | | | | 5.2 |
| 2/8/2023 | | 14.7 | | 6.1 | | 0.96 (J) | | 7.5 | |
| 2/9/2023 | | | | | 8.9 | | 2.9 | | |
| 8/2/2023 | | | | | | | | | |
| 8/15/2023 | 4.6 | | 9.6 | 6 | 7.5 | | 2.2 | 6.8 | 4.8 |
| 8/16/2023 | | 20.3 | | | | 0.9 (J) | | | |
| 8/17/2023 | | | | | | | | | |
| 2/20/2024 | 4.3 | 13.8 | 9.7 | | 8.5 | 0.69 (J) | 2.5 | 7 | 5.1 |
| 2/21/2024 | | | | | | | | | |
| 2/22/2024 | | | | | | | | | |
| 2/23/2024 | | | | 7.1 | | | | | |

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-17S (bg) | YGWA-21I (bg) | YGWA-20S (bg) | YGWC-26S | YGWC-27I | YGWC-26I | YGWC-27S |
|---|---|---|---|---|---|---|---|---|---|
| 6/1/2016 | | | | | | | | | |
| 6/2/2016 | | | | | | | | | |
| 6/6/2016 | 1.2 | 1.8 | | | | | | | |
| 6/7/2016 | | | 4.4 | 5.2 | <1 | | | | |
| 6/8/2016 | | | | | | 110 | 3.2 | 81 | 26 |
| 6/9/2016 | | | | | | | | | |
| 7/25/2016 | | | | | | | | | |
| 7/26/2016 | | | | | | | | | |
| 7/27/2016 | 1.7 | 1.9 | 4.7 | | 0.08 (J) | | | | |
| 7/28/2016 | | | | 5.1 | | | | | |
| 8/1/2016 | | | | | | 96 | 3.6 | 75 | 27 |
| 8/2/2016 | | | | | | | | | |
| 8/30/2016 | | | | | | | | | |
| 8/31/2016 | | | | | | | | | |
| 9/13/2016 | | | | | | | | | |
| 9/14/2016 | | | | | | | | | |
| 9/15/2016 | | | | | | | | | |
| 9/16/2016 | | 1.7 | 4.8 | | | | | | |
| 9/19/2016 | 1.8 | | | 4.8 | 0.08 (J) | | | | |
| 9/20/2016 | | | | | | 100 | 5.6 | 78 | 21 |
| 9/21/2016 | | | | | | | | | |
| 11/1/2016 | | | | | | | | | |
| 11/2/2016 | | | | | 0.1 (J) | | | | |
| 11/3/2016 | 0.69 (J) | 1.9 | 5.3 | 5 | | | | | |
| 11/4/2016 | | | | | | | | | |
| 11/7/2016 | | | | | | 100 | 5.4 | 81 | 24 |
| 11/8/2016 | | | | | | | | | |
| 11/14/2016 | | | | | | | | | |
| 11/28/2016 | | | | | | | | | |
| 12/15/2016 | | | | | | | | | |
| 1/10/2017 | | | | | | | | | |
| 1/11/2017 | <1 | 1.7 | 5.2 | | | | | | |
| 1/12/2017 | | | | | | | | | |
| 1/13/2017 | | | | 4.3 | <1 | | | | |
| 1/16/2017 | | | | | | | | | |
| 1/18/2017 | | | | | | 100 | 3.5 | 95 | |
| 1/19/2017 | | | | | | | | | 25 |
| 2/21/2017 | | | | | | 96 | | 80 | |
| 2/22/2017 | | | | | | | | | 24 |
| 2/23/2017 | | | | | | | 4.9 | | |
| 2/24/2017 | | | | | | | | | |
| 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 | | | | | | | | | |
| 4/26/2017 | 1.6 | 1.9 | | 4.9 | <1 | | | | |
| 4/27/2017 | | | | | | | | | |
| 4/28/2017 | | | | | | | | | |
| 5/1/2017 | | | | | | | | | |
| 5/2/2017 | | | 5 | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-17S (bg) | YGWA-21I (bg) | YGWA-20S (bg) | YGWC-26S | YGWC-27I | YGWC-26I | YGWC-27S |
|---|---|---|---|---|---|---|---|---|---|
| 5/3/2017 | | | | | | 100 | | | |
| 5/5/2017 | | | | | | | | | |
| 5/8/2017 | | | | | | | 3.9 | 84 | 23 |
| 5/26/2017 | | | | | | | | | |
| 6/27/2017 | | | | | | | | | |
| 6/28/2017 | <1 | <1 | | | | | | | |
| 6/29/2017 | | | 5.2 | 5.5 | <1 | | | | |
| 6/30/2017 | | | | | | | 5 | | 23 |
| 7/5/2017 | | | | | | | | | |
| 7/7/2017 | | | | | | | | | |
| 7/10/2017 | | | | | | 100 | | 84 | |
| 7/11/2017 | | | | | | | | | |
| 7/17/2017 | | | | | | | | | |
| 10/3/2017 | | | | 5.8 | | | | | |
| 10/4/2017 | | 1.7 | 5.3 | | <1 | | | | |
| 10/5/2017 | 1.6 | | | | | | | | |
| 10/6/2017 | | | | | | | | | 23 |
| 10/9/2017 | | | | | | | 5.1 | | |
| 10/10/2017 | | | | | | 97 | | 82 | |
| 10/11/2017 | | | | | | | | | |
| 10/12/2017 | | | | | | | | | |
| 10/16/2017 | | | | | | | | | |
| 11/20/2017 | | | | | | | | | |
| 1/10/2018 | | | | | | | | | |
| 1/11/2018 | | | | | | | | | |
| 2/19/2018 | | | | | | | | | |
| 2/20/2018 | | | | | | | | | |
| 4/2/2018 | | | | | | | | | |
| 4/3/2018 | | | | | | | | | |
| 6/5/2018 | | | | 6.1 | | | | | |
| 6/6/2018 | | | | | 0.049 (J) | | | | |
| 6/7/2018 | 0.68 (J) | | | | | | | | |
| 6/8/2018 | | | | | | | | | |
| 6/11/2018 | | 0.95 (J) | 5.2 | | | | | | |
| 6/12/2018 | | | | | | | | | 18.1 |
| 6/13/2018 | | | | | | 93.3 | 6.1 | 76.5 | |
| 6/28/2018 | | | | | | | | | |
| 8/6/2018 | | | | | | | | | |
| 8/7/2018 | | | | | | | | | |
| 9/19/2018 | | | | | | | | | |
| 9/24/2018 | | | | | | | | | |
| 9/25/2018 | 1 | 1.5 | 6.1 | 7 | 0.13 (J) | | | | |
| 9/26/2018 | | | | | | | | | |
| 10/1/2018 | | | | | | | | | |
| 10/2/2018 | | | | | | 99 | 6.1 | 83.9 | 20.2 |
| 10/3/2018 | | | | | | | | | |
| 2/25/2019 | | | | | | | | | |
| 3/26/2019 | | | | | | | | | |
| 3/27/2019 | | | | | | | | | |
| 3/28/2019 | | | | | | | | | |
| 3/29/2019 | | | | | | | | | |
| 4/1/2019 | | | | | | | 4.1 | | 18.3 |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-18I (bg) | YGWA-18S (bg) | YGWA-17S (bg) | YGWA-21I (bg) | YGWA-20S (bg) | YGWC-26S | YGWC-27I | YGWC-26I | YGWC-27S |
|---|---|---|---|---|---|---|---|---|---|
| 4/2/2019 | | | 5.1 | 3.8 | | 94.5 | | 77.6 | |
| 4/3/2019 | 0.82 (J) | 1.3 | | | 0.12 (J) | | | | |
| 6/12/2019 | | | | | | | | | |
| 9/24/2019 | | | | 1 | | | | | |
| 9/25/2019 | | | 5.5 | | <1 | 97 | | 80.1 | |
| 9/26/2019 | 0.64 (J) | 1 | | | | | 4.2 | | 18.2 |
| 10/8/2019 | | | | | | | | | |
| 10/9/2019 | | | | | | | | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | | | | | | | | | |
| 3/19/2020 | | | | | | 99.4 | | | |
| 3/20/2020 | | | | | | | 5.2 | 84.7 | 21.1 |
| 3/24/2020 | <1 | 0.99 (J) | 5.4 | 3 | <1 | | | | |
| 3/25/2020 | | | | | | | | | |
| 9/22/2020 | | | | | | | | | |
| 9/23/2020 | 0.53 (J) | 1.1 | 5.1 | | | | | | |
| 9/24/2020 | | | | 3.6 | <1 | 92.3 | 3 | 85.6 | 16.6 |
| 9/25/2020 | | | | | | | | | |
| 3/1/2021 | | | | | | | | | |
| 3/2/2021 | | | | | | 92.7 | | | |
| 3/3/2021 | <1 | 1 | 5.2 | | <1 | | 2.6 | 89.3 | 451 (o) |
| 3/4/2021 | | | | 4.5 | | | | | |
| 8/19/2021 | | | | | | 86.5 | | | |
| 8/20/2021 | | | | | | | 2.9 | 84 | 18 |
| 8/26/2021 | | 1.2 | | | | | | | |
| 8/27/2021 | 0.59 (J) | | 5.3 | | <1 | | | | |
| 9/1/2021 | | | | 5 | | | | | |
| 9/3/2021 | | | | | | | | | |
| 2/8/2022 | | | | | | | | | 16.3 |
| 2/9/2022 | 0.51 (J) | 1.1 | 4.8 | 3.9 | <1 | | | | |
| 2/10/2022 | | | | | | 86.5 | 2.4 | 81.8 | |
| 2/11/2022 | | | | | | | | | |
| 8/30/2022 | 0.78 (J) | 1.3 | 4.7 | 3.2 | | | | | |
| 8/31/2022 | | | | | <1 | 90.2 | | 85.9 | |
| 9/1/2022 | | | | | | | 2.5 | | 13.5 |
| 2/7/2023 | 0.78 (J) | 1.2 | 4.9 | 3.8 | <1 | | | | |
| 2/8/2023 | | | | | | | | | |
| 2/9/2023 | | | | | | 89.7 | 3.2 | 84.2 | 13.7 |
| 8/2/2023 | | | | | | | | | |
| 8/15/2023 | 0.51 (J) | 0.88 (J) | 4.6 | 4.1 | <1 | | | | |
| 8/16/2023 | | | | | | | | | |
| 8/17/2023 | | | | | | 85.7 | 3.3 | 81.1 | 14.2 |
| 2/20/2024 | <1 | | 4.6 | 3.8 | <1 | | | | |
| 2/21/2024 | | | | | | | 3.8 | | 13 |
| 2/22/2024 | | | | | | 89.3 | | 80.7 | |
| 2/23/2024 | | 0.79 (J) | | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWC-28I | YGWC-28S | YGWC-29IB | YGWA-47 (bg) | GWA-2 (bg) | YGWA-2I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|---|
| 6/1/2016 | | | | | | | | |
| 6/2/2016 | | | | | | | | |
| 6/6/2016 | | | | | | | | |
| 6/7/2016 | | | | | | | | |
| 6/8/2016 | | | | | | | | |
| 6/9/2016 | 8.7 | 5.2 | 33 | | | | | |
| 7/25/2016 | | | | | | | | |
| 7/26/2016 | | | | | | | | |
| 7/27/2016 | | | | | | | | |
| 7/28/2016 | | | | | | | | |
| 8/1/2016 | | | | | | | | |
| 8/2/2016 | 7.5 | 4.5 | 32 | | | | | |
| 8/30/2016 | | | | 160 | | | | |
| 8/31/2016 | | | | | 29 | | | |
| 9/13/2016 | | | | | | | | |
| 9/14/2016 | | | | | | 9.4 | | |
| 9/15/2016 | | | | | | | | |
| 9/16/2016 | | | | | | | | |
| 9/19/2016 | | | | | | | | |
| 9/20/2016 | | | | | | | | |
| 9/21/2016 | 8 | <1 (*) | 32 | | | | | |
| 11/1/2016 | | | | | | | | |
| 11/2/2016 | | | | | | | | |
| 11/3/2016 | | | | | | | | |
| 11/4/2016 | | | | | | 13 | | |
| 11/7/2016 | | 4.3 | 33 | | | | | |
| 11/8/2016 | 8.3 | | | | | | | |
| 11/14/2016 | | | | 150 | | | | |
| 11/28/2016 | | | | | 36 | | | |
| 12/15/2016 | | | | | | 1.8 | | |
| 1/10/2017 | | | | | | | | |
| 1/11/2017 | | | | | | | | |
| 1/12/2017 | | | | | | | | |
| 1/13/2017 | | | | | | | | |
| 1/16/2017 | | | | | | 11 | | |
| 1/18/2017 | 8 | 2.7 | | | | | | |
| 1/19/2017 | | | 32 | | | | | |
| 2/21/2017 | | 3 | | | | | | |
| 2/22/2017 | 8.2 | | 31 | | 43 | | | |
| 2/23/2017 | | | | | | | | |
| 2/24/2017 | | | | 120 | | | | |
| 3/1/2017 | | | | | | | | |
| 3/2/2017 | | | | | | | | |
| 3/3/2017 | | | | | | 8.8 | | |
| 3/6/2017 | | | | | | | | |
| 3/7/2017 | | | | | | | | |
| 3/8/2017 | | | | | | | | |
| 4/26/2017 | | | | | | | | |
| 4/27/2017 | | | | | | | | |
| 4/28/2017 | | | | | | 10 | | |
| 5/1/2017 | | | | | | | | |
| 5/2/2017 | | | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWC-28I | YGWC-28S | YGWC-29IB | YGWA-47 (bg) | GWA-2 (bg) | YGWA-2I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|---|
| 5/3/2017 | | | | | | | | |
| 5/5/2017 | <1 (*) | <1 (*) | | | | | | |
| 5/8/2017 | | | 32 | 120 | 60 | | | |
| 5/26/2017 | | | | | | 12 | | |
| 6/27/2017 | | | | | | | | |
| 6/28/2017 | | | | | | 11 | | |
| 6/29/2017 | | | | | | | | |
| 6/30/2017 | | | | | | | | |
| 7/5/2017 | 8.1 | | 31 | | | | | |
| 7/7/2017 | | 2.7 | | | | | | |
| 7/10/2017 | | | | | | | | |
| 7/11/2017 | | | | 110 | | | | |
| 7/17/2017 | | | | | 63 | | | |
| 10/3/2017 | | | | | | 7.9 | | |
| 10/4/2017 | | | | | | | | |
| 10/5/2017 | 8.6 | | 31 | | | | | |
| 10/6/2017 | | | | | | | | |
| 10/9/2017 | | 2.9 | | | | | | |
| 10/10/2017 | | | | 93 | | | | |
| 10/11/2017 | | | | | | | 20 | |
| 10/12/2017 | | | | | | | | 17 |
| 10/16/2017 | | | | | 62 | | | |
| 11/20/2017 | | | | | | | 24 | 71 |
| 1/10/2018 | | | | | | | | 66 |
| 1/11/2018 | | | | | | | 23 | |
| 2/19/2018 | | | | | 64.6 | | | 57.2 |
| 2/20/2018 | | | | | | | 20.6 | |
| 4/2/2018 | | | | 88.8 | | | | |
| 4/3/2018 | | | | | | | 24.5 | 49.4 |
| 6/5/2018 | | | | | | | | |
| 6/6/2018 | | | | | | | | |
| 6/7/2018 | | | | | | 8.8 | | |
| 6/8/2018 | | | | | | | | |
| 6/11/2018 | | | 30.6 | | | | | |
| 6/12/2018 | 8.2 | 2.9 | | | | | | |
| 6/13/2018 | | | | | | | | |
| 6/28/2018 | | | | | | | 22 | 43.8 |
| 8/6/2018 | | | | | 42.1 | | | |
| 8/7/2018 | | | | | | | 20.7 | 40.5 |
| 9/19/2018 | | | | 75 | | | | |
| 9/24/2018 | | | | | | | 21.2 | 39.7 |
| 9/25/2018 | | | | | | | | |
| 9/26/2018 | | | | | | | | |
| 10/1/2018 | | | | | | 9.1 | | |
| 10/2/2018 | | | 30.8 | | | | | |
| 10/3/2018 | 8 | 2.1 | | | | | | |
| 2/25/2019 | | | | | 42.1 | | | |
| 3/26/2019 | | | | | | | | 34.3 |
| 3/27/2019 | | | | 65.9 | | | 17.7 | |
| 3/28/2019 | | | | | | | | |
| 3/29/2019 | | | | | | 9 | | |
| 4/1/2019 | 8.2 | | 30.4 | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWC-28I | YGWC-28S | YGWC-29IB | YGWA-47 (bg) | GWA-2 (bg) | YGWA-2I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|---|
| 4/2/2019 | | 2.4 | | | | | | |
| 4/3/2019 | | | | | | | | |
| 6/12/2019 | | | | | 83.4 | | | |
| 9/24/2019 | | | | | | 9.1 | | |
| 9/25/2019 | | | 30 | | | | | |
| 9/26/2019 | 7.9 | 1.6 | | | | | | |
| 10/8/2019 | | | | 52.3 | 128 | | | |
| 10/9/2019 | | | | | | | 15 | 27.9 |
| 3/17/2020 | | | | 71.6 | 98.6 | | | |
| 3/18/2020 | | | | | | | | |
| 3/19/2020 | 9.1 | 1.7 | | | | 12.4 | | |
| 3/20/2020 | | | 33 | | | | | |
| 3/24/2020 | | | | | | | | 25.2 |
| 3/25/2020 | | | | | | | 14.3 | |
| 9/22/2020 | | | | 51.5 | 145 | | | |
| 9/23/2020 | | | | | | 11.8 | | |
| 9/24/2020 | 7.2 | 0.99 (J) | 26.2 | | | | 11.7 | 22.9 |
| 9/25/2020 | | | | | | | | |
| 3/1/2021 | | | | 51.6 | | | | |
| 3/2/2021 | | | | | 156 | | | |
| 3/3/2021 | 8.6 | 4.9 | 26.6 | | | 10.6 | | |
| 3/4/2021 | | | | | | | 12 | 21.5 |
| 8/19/2021 | | | | 52.6 | | | | |
| 8/20/2021 | 8.9 | 5.4 | 24.7 | | 121 | | | |
| 8/26/2021 | | | | | | | 19.2 | |
| 8/27/2021 | | | | | | 16.7 | | |
| 9/1/2021 | | | | | | | | |
| 9/3/2021 | | | | | | | | 21.3 |
| 2/8/2022 | 8.1 | 10.5 | 22.9 | 50.9 | 107 | | 14.6 | 17.9 |
| 2/9/2022 | | | | | | 18 | | |
| 2/10/2022 | | | | | | | | |
| 2/11/2022 | | | | | | | | |
| 8/30/2022 | | | | | 101 | 20.1 | | |
| 8/31/2022 | | | | 48 | | | 10.9 | 17.9 |
| 9/1/2022 | 7.6 | 13.4 | 21.2 | | | | | |
| 2/7/2023 | | | | | 82.4 | 17.8 | 9.7 | |
| 2/8/2023 | | | 23.7 | 50.5 | | | | 17.5 |
| 2/9/2023 | 7.4 | 16 | | | | | | |
| 8/2/2023 | | | 22.9 | | | | | |
| 8/15/2023 | | | | 47.7 | 74.2 | 17.2 | 7.6 | 16.4 |
| 8/16/2023 | 7.8 | 16.2 | | | | | | |
| 8/17/2023 | | | | | | | | |
| 2/20/2024 | | | | 51 | 75 | 23.1 | 8.6 | 17.2 |
| 2/21/2024 | 8.5 | 3.9 | | | | | | |
| 2/22/2024 | | | 26.9 | | | | | |
| 2/23/2024 | | | | | | | | |

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-3I (bg) | YGWA-1I (bg) | YGWA-1D (bg) | YGWA-14S (bg) | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | YGWA-3D (bg) | YGWA-30I (bg) |
|---|---|---|---|---|---|---|---|---|---|
| 6/1/2016 | 150 | 54 | 120 | | | | | | |
| 6/2/2016 | | | | 46 | 96 | 160 | 66 | 130 | 36 |
| 6/6/2016 | | | | | | | | | |
| 6/7/2016 | | | | | | | | | |
| 6/8/2016 | | | | | | | | | |
| 6/9/2016 | | | | | | | | | |
| 7/25/2016 | 135 | 48 | | | | | | | 50 |
| 7/26/2016 | | | 94 | 54 | 92 | 177 | 78 | 141 | |
| 7/27/2016 | | | | | | | | | |
| 7/28/2016 | | | | | | | | | |
| 8/1/2016 | | | | | | | | | |
| 8/2/2016 | | | | | | | | | |
| 8/30/2016 | | | | | | | | | |
| 8/31/2016 | | | | | | | | | |
| 9/13/2016 | | 67 | 105 | | | | | | |
| 9/14/2016 | 127 | | | | 102 | 187 | 73 | | |
| 9/15/2016 | | | | 54 | | | | 153 | |
| 9/16/2016 | | | | | | | | | |
| 9/19/2016 | | | | | | | | | 35 |
| 9/20/2016 | | | | | | | | | |
| 9/21/2016 | | | | | | | | | |
| 11/1/2016 | 75 | | 44 | | | | | 92 | <25 |
| 11/2/2016 | | | | 71 | 115 | 181 | | | |
| 11/3/2016 | | | | | | | | | |
| 11/4/2016 | | 60 | | | | | 75 | | |
| 11/7/2016 | | | | | | | | | |
| 11/8/2016 | | | | | | | | | |
| 11/14/2016 | | | | | | | | | |
| 11/28/2016 | | | | | | | | | |
| 12/15/2016 | | | | | | | | | |
| 1/10/2017 | | | | 45 | | | | | |
| 1/11/2017 | 148 | | 107 | | | | | 159 | |
| 1/12/2017 | | | | | | 202 | 86 | | |
| 1/13/2017 | | | | | 67 | | | | |
| 1/16/2017 | | 65 | | | | | | | 47 |
| 1/18/2017 | | | | | | | | | |
| 1/19/2017 | | | | | | | | | |
| 2/21/2017 | | | | | | | | | <25 |
| 2/22/2017 | | | | | | | | | |
| 2/23/2017 | | | | | | | | | |
| 2/24/2017 | | | | | | | | | |
| 3/1/2017 | 182 | | | | | | | | |
| 3/2/2017 | | 61 | 98 | | | | | 117 | |
| 3/3/2017 | | | | | | | | | |
| 3/6/2017 | | | | | 159 | | | | |
| 3/7/2017 | | | | | | 257 | 108 | | |
| 3/8/2017 | | | | 178 | | | | | |
| 4/26/2017 | 92 | | | 52 | | | | 181 | 55 |
| 4/27/2017 | | 31 | 116 | | | | | | |
| 4/28/2017 | | | | | | | | | |
| 5/1/2017 | | | | | 107 | 165 | | | |
| 5/2/2017 | | | | | | | 103 | | |

ND substitution: RL or RL/2 if <15% NDs.

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-3I (bg) | YGWA-1I (bg) | YGWA-1D (bg) | YGWA-14S (bg) | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | YGWA-3D (bg) | YGWA-30I (bg) |
|---|---|---|---|---|---|---|---|---|---|
| 5/3/2017 | | | | | | | | | |
| 5/5/2017 | | | | | | | | | |
| 5/8/2017 | | | | | | | | | |
| 5/26/2017 | | | | | | | | | |
| 6/27/2017 | | 42 | 89 | | | 189 | 73 | | |
| 6/28/2017 | 126 | | | | | | | 169 | |
| 6/29/2017 | | | | | 79 | | | | |
| 6/30/2017 | | | | 45 | | | | | 42 |
| 7/5/2017 | | | | | | | | | |
| 7/7/2017 | | | | | | | | | |
| 7/10/2017 | | | | | | | | | |
| 7/11/2017 | | | | | | | | | |
| 7/17/2017 | | | | | | | | | |
| 10/3/2017 | | 58 | 119 | | | 170 | 89 | | |
| 10/4/2017 | 147 | | | | | | | 141 | 31 |
| 10/5/2017 | | | | 40 | 95 | | | | |
| 10/6/2017 | | | | | | | | | |
| 10/9/2017 | | | | | | | | | |
| 10/10/2017 | | | | | | | | | |
| 10/11/2017 | | | | | | | | | |
| 10/12/2017 | | | | | | | | | |
| 10/16/2017 | | | | | | | | | |
| 11/20/2017 | | | | | | | | | |
| 1/10/2018 | | | | | | | | | |
| 1/11/2018 | | | | | | | | | |
| 2/19/2018 | | | | | | | | | |
| 2/20/2018 | | | | | | | | | |
| 4/2/2018 | | | | | | | | | |
| 4/3/2018 | | | | | | | | | |
| 6/5/2018 | | | 127 | | | | | | |
| 6/6/2018 | | 96 | | | | 151 | | | |
| 6/7/2018 | | | | | 90 | | 142 | 95 | |
| 6/8/2018 | 158 | | | 114 | | | | | |
| 6/11/2018 | | | | | | | | | 59 |
| 6/12/2018 | | | | | | | | | |
| 6/13/2018 | | | | | | | | | |
| 6/28/2018 | | | | | | | | | |
| 8/6/2018 | | | | | | | | | |
| 8/7/2018 | | | | | | | | | |
| 9/19/2018 | | | | | | | | | |
| 9/24/2018 | | | | | | | | | |
| 9/25/2018 | | | | | | | | | |
| 9/26/2018 | | | | | 116 | 144 | 86 | | |
| 10/1/2018 | 138 | 60 | 117 | 50 | | | | 165 | |
| 10/2/2018 | | | | | | | | | 57 |
| 10/3/2018 | | | | | | | | | |
| 2/25/2019 | | | | | | | | | |
| 3/26/2019 | | | | | | | | | |
| 3/27/2019 | | | | | | | | | |
| 3/28/2019 | | 87 | 87 | | | | | | |
| 3/29/2019 | | | | 63 | | | | | |
| 4/1/2019 | 19 (J) | | | | | | | 149 | 54 |

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-3I (bg) | YGWA-1I (bg) | YGWA-1D (bg) | YGWA-14S (bg) | YGWA-4I (bg) | YGWA-5D (bg) | YGWA-5I (bg) | YGWA-3D (bg) | YGWA-30I (bg) |
|---|---|---|---|---|---|---|---|---|---|
| 4/2/2019 | | | | | | | | | |
| 4/3/2019 | | | | | 111 | 142 | 83 | | |
| 6/12/2019 | | | | | | | | | |
| 9/24/2019 | | 54 | 124 | | | 129 | 79 | | |
| 9/25/2019 | 159 | | | 64 | 117 | | | 157 | 51 |
| 9/26/2019 | | | | | | | | | |
| 10/8/2019 | | | | | | | | | |
| 10/9/2019 | | | | | | | | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | | 35 | | 57 | | | | | |
| 3/19/2020 | 148 | | 116 | | | | | 146 | 47 |
| 3/20/2020 | | | | | | | | | |
| 3/24/2020 | | | | | | 139 | 68 | | |
| 3/25/2020 | | | | | 146 | | | | |
| 9/22/2020 | | | | | 83 | 104 | 75 | | |
| 9/23/2020 | 155 | 15 | 108 | | | | | 157 | |
| 9/24/2020 | | | | | | | | | 51 |
| 9/25/2020 | | | | 54 | | | | | |
| 3/1/2021 | | | | | | | | | 23 |
| 3/2/2021 | | | | 67 | | 52 | 67 | | |
| 3/3/2021 | 111 | 39 | 99 | | 80 | | | 137 | |
| 3/4/2021 | | | | | | | | | |
| 8/19/2021 | | 44 | 105 | 54 | | | | 144 | 50 |
| 8/20/2021 | | | | | | | | | |
| 8/26/2021 | | | | | 93 | 123 | 86 | | |
| 8/27/2021 | 155 | | | | | | | | |
| 9/1/2021 | | | | | | | | | |
| 9/3/2021 | | | | | | | | | |
| 2/8/2022 | | | | | | | | | |
| 2/9/2022 | 145 | 57 | 105 | | | | | 154 | |
| 2/10/2022 | | | | 56 | | 127 | 77 | | |
| 2/11/2022 | | | | | 102 | | | | 66 |
| 8/30/2022 | | | 116 | | | 148 | 86 | | |
| 8/31/2022 | 137 | 46 | | 51 | 92 | | | 141 | 33 |
| 9/1/2022 | | | | | | | | | |
| 2/7/2023 | | 121 | 131 | | | 180 | | | |
| 2/8/2023 | 145 | | | 56 | | | | 144 | 43 |
| 2/9/2023 | | | | | 124 | | 59 | | |
| 8/2/2023 | | | | | | | | | |
| 8/15/2023 | | 65 | 121 | 69 | 99 | 219 | 76 | 231 | |
| 8/16/2023 | 148 | | | | | | | | 48 |
| 8/17/2023 | | | | | | | | | |
| 2/20/2024 | 220 | 59 | 130 (D6) | | 140 | 639 (o) | 137 | 294 | 55 |
| 2/21/2024 | | | | | | | | | |
| 2/22/2024 | | | | | | | | | |
| 2/23/2024 | | | | 64 | | | | | |

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-18S (bg) | YGWA-18I (bg) | YGWA-20S (bg) | YGWA-17S (bg) | YGWA-21I (bg) | YGWC-26I | YGWC-27S | YGWC-27I | YGWC-26S |
|---|---|---|---|---|---|---|---|---|---|
| 6/1/2016 | | | | | | | | | |
| 6/2/2016 | | | | | | | | | |
| 6/6/2016 | 58 | 120 | | | | | | | |
| 6/7/2016 | | | 38 | 28 | 60 | | | | |
| 6/8/2016 | | | | | | 220 | 210 | 190 | 200 |
| 6/9/2016 | | | | | | | | | |
| 7/25/2016 | | | | | | | | | |
| 7/26/2016 | | | | | | | | | |
| 7/27/2016 | 35 | 94 | 74 | 74 | | | | | |
| 7/28/2016 | | | | | 81 | | | | |
| 8/1/2016 | | | | | | 211 | 209 | 191 | 191 |
| 8/2/2016 | | | | | | | | | |
| 8/30/2016 | | | | | | | | | |
| 8/31/2016 | | | | | | | | | |
| 9/13/2016 | | | | | | | | | |
| 9/14/2016 | | | | | | | | | |
| 9/15/2016 | | | | | | | | | |
| 9/16/2016 | 35 | | | 67 | | | | | |
| 9/19/2016 | | 92 | 45 | | 68 | | | | |
| 9/20/2016 | | | | | | 217 | 224 | 205 | 213 |
| 9/21/2016 | | | | | | | | | |
| 11/1/2016 | | | | | | | | | |
| 11/2/2016 | | | 53 | | | | | | |
| 11/3/2016 | 48 | 104 | | 41 | 61 | | | | |
| 11/4/2016 | | | | | | | | | |
| 11/7/2016 | | | | | | 301 | 291 | 264 | 284 |
| 11/8/2016 | | | | | | | | | |
| 11/14/2016 | | | | | | | | | |
| 11/28/2016 | | | | | | | | | |
| 12/15/2016 | | | | | | | | | |
| 1/10/2017 | | | | | | | | | |
| 1/11/2017 | 95 | 133 | | 104 | | | | | |
| 1/12/2017 | | | | | | | | | |
| 1/13/2017 | | | 46 | | 76 | | | | |
| 1/16/2017 | | | | | | | | | |
| 1/18/2017 | | | | | | 265 (D) | | 167 (D) | 158 (D) |
| 1/19/2017 | | | | | | | 215 (D) | | |
| 2/21/2017 | | | | | | 158 | | | 137 |
| 2/22/2017 | | | | | | | 262 | | |
| 2/23/2017 | | | | | | | | 253 | |
| 2/24/2017 | | | | | | | | | |
| 3/1/2017 | 79 | 119 | | | | | | | |
| 3/2/2017 | | | | 77 | | | | | |
| 3/3/2017 | | | | | | | | | |
| 3/6/2017 | | | 164 | | 167 | | | | |
| 3/7/2017 | | | | | | | | | |
| 3/8/2017 | | | | | | | | | |
| 4/26/2017 | 36 | 162 | 34 | | 50 | | | | |
| 4/27/2017 | | | | | | | | | |
| 4/28/2017 | | | | | | | | | |
| 5/1/2017 | | | | | | | | | |
| 5/2/2017 | | | | 142 | | | | | |

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-18S (bg) | YGWA-18I (bg) | YGWA-20S (bg) | YGWA-17S (bg) | YGWA-21I (bg) | YGWC-26I | YGWC-27S | YGWC-27I | YGWC-26S |
|---|---|---|---|---|---|---|---|---|---|
| 5/3/2017 | | | | | | | | | 269 |
| 5/5/2017 | | | | | | | | | |
| 5/8/2017 | | | | | | 207 | 187 | 174 | |
| 5/26/2017 | | | | | | | | | |
| 6/27/2017 | | | | | | | | | |
| 6/28/2017 | 45 | 98 | | | | | | | |
| 6/29/2017 | | | 68 | 53 | 94 | | | | |
| 6/30/2017 | | | | | | | 209 | 193 | |
| 7/5/2017 | | | | | | | | | |
| 7/7/2017 | | | | | | | | | |
| 7/10/2017 | | | | | | 219 | | | 183 |
| 7/11/2017 | | | | | | | | | |
| 7/17/2017 | | | | | | | | | |
| 10/3/2017 | | | | | 149 | | | | |
| 10/4/2017 | 45 | | 54 | 61 | | | | | |
| 10/5/2017 | | 104 | | | | | | | |
| 10/6/2017 | | | | | | | 183 | | |
| 10/9/2017 | | | | | | | | 185 | |
| 10/10/2017 | | | | | | 194 | | | 179 |
| 10/11/2017 | | | | | | | | | |
| 10/12/2017 | | | | | | | | | |
| 10/16/2017 | | | | | | | | | |
| 11/20/2017 | | | | | | | | | |
| 1/10/2018 | | | | | | | | | |
| 1/11/2018 | | | | | | | | | |
| 2/19/2018 | | | | | | | | | |
| 2/20/2018 | | | | | | | | | |
| 4/2/2018 | | | | | | | | | |
| 4/3/2018 | | | | | | | | | |
| 6/5/2018 | | | | | 109 | | | | |
| 6/6/2018 | | | 79 | | | | | | |
| 6/7/2018 | | 68 | | | | | | | |
| 6/8/2018 | | | | | | | | | |
| 6/11/2018 | 74 | | | 70 | | | | | |
| 6/12/2018 | | | | | | | 208 | | |
| 6/13/2018 | | | | | | 228 | | 219 | 196 |
| 6/28/2018 | | | | | | | | | |
| 8/6/2018 | | | | | | | | | |
| 8/7/2018 | | | | | | | | | |
| 9/19/2018 | | | | | | | | | |
| 9/24/2018 | | | | | | | | | |
| 9/25/2018 | 63 | 109 | 73 | 86 | 122 | | | | |
| 9/26/2018 | | | | | | | | | |
| 10/1/2018 | | | | | | | | | |
| 10/2/2018 | | | | | | 227 | 206 | 227 | 191 |
| 10/3/2018 | | | | | | | | | |
| 2/25/2019 | | | | | | | | | |
| 3/26/2019 | | | | | | | | | |
| 3/27/2019 | | | | | | | | | |
| 3/28/2019 | | | | | | | | | |
| 3/29/2019 | | | | | | | | | |
| 4/1/2019 | | | | | | | 221 | 198 | |

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWA-18S (bg) | YGWA-18I (bg) | YGWA-20S (bg) | YGWA-17S (bg) | YGWA-21I (bg) | YGWC-26I | YGWC-27S | YGWC-27I | YGWC-26S |
|---|---|---|---|---|---|---|---|---|---|
| 4/2/2019 | | | | 72 | 134 | 223 | | | 224 |
| 4/3/2019 | 63 | 89 | 57 | | | | | | |
| 6/12/2019 | | | | | | | | | |
| 9/24/2019 | | | | | 157 | | | | |
| 9/25/2019 | | | 75 | 81 | | 225 | | | 190 |
| 9/26/2019 | 72 | 126 | | | | | 225 | 198 | |
| 10/8/2019 | | | | | | | | | |
| 10/9/2019 | | | | | | | | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | | | | | | | | | |
| 3/19/2020 | | | | | | | | | 194 |
| 3/20/2020 | | | | | | 211 | 182 | 195 | |
| 3/24/2020 | 59 | 91 | 76 | 71 | 117 | | | | |
| 3/25/2020 | | | | | | | | | |
| 9/22/2020 | | | | | | | | | |
| 9/23/2020 | 81 | 103 | | 99 | | | | | |
| 9/24/2020 | | | 69 | | 113 | 212 | 185 | 186 | 171 |
| 9/25/2020 | | | | | | | | | |
| 3/1/2021 | | | | | | | | | |
| 3/2/2021 | | | | | | | | | 154 |
| 3/3/2021 | 37 | 95 | 53 | 57 | | 205 | 178 | 173 | |
| 3/4/2021 | | | | | 110 | | | | |
| 8/19/2021 | | | | | | | | | 176 |
| 8/20/2021 | | | | | | 224 | 169 | 196 | |
| 8/26/2021 | 31 | | | | | | | | |
| 8/27/2021 | | 112 | 67 | 93 | | | | | |
| 9/1/2021 | | | | | 137 | | | | |
| 9/3/2021 | | | | | | | | | |
| 2/8/2022 | | | | | | | 159 | | |
| 2/9/2022 | 60 | 103 | 72 | 81 | 131 | | | | |
| 2/10/2022 | | | | | | 207 | | 190 | 168 |
| 2/11/2022 | | | | | | | | | |
| 8/30/2022 | 52 | 100 | | 81 | 122 | | | | |
| 8/31/2022 | | | 62 | | | 228 | | | 206 |
| 9/1/2022 | | | | | | | 124 | 193 | |
| 2/7/2023 | 55 | 96 | 89 | 78 | 163 | | | | |
| 2/8/2023 | | | | | | | | | |
| 2/9/2023 | | | | | | 366 | 116 | 189 | 196 |
| 8/2/2023 | | | | | | | | | |
| 8/15/2023 | 81 | 96 | 62 | 74 | 126 | | | | |
| 8/16/2023 | | | | | | | | | |
| 8/17/2023 | | | | | | 248 | 137 | 186 | 207 |
| 2/20/2024 | | 129 | 164 | 77 | 156 | | | | |
| 2/21/2024 | | | | | | | 149 | 194 | |
| 2/22/2024 | | | | | | 215 | | | 188 |
| 2/23/2024 | 52 | | | | | | | | |

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWC-29IB | YGWC-28S | YGWC-28I | YGWA-47 (bg) | GWA-2 (bg) | YGWA-2I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|---|
| 6/1/2016 | | | | | | | | |
| 6/2/2016 | | | | | | | | |
| 6/6/2016 | | | | | | | | |
| 6/7/2016 | | | | | | | | |
| 6/8/2016 | | | | | | | | |
| 6/9/2016 | 150 | 210 | 240 | | | | | |
| 7/25/2016 | | | | | | | | |
| 7/26/2016 | | | | | | | | |
| 7/27/2016 | | | | | | | | |
| 7/28/2016 | | | | | | | | |
| 8/1/2016 | | | | | | | | |
| 8/2/2016 | 155 | 202 | 226 | | | | | |
| 8/30/2016 | | | | 319 | | | | |
| 8/31/2016 | | | | | 209 | | | |
| 9/13/2016 | | | | | | | | |
| 9/14/2016 | | | | | | 152 | | |
| 9/15/2016 | | | | | | | | |
| 9/16/2016 | | | | | | | | |
| 9/19/2016 | | | | | | | | |
| 9/20/2016 | | | | | | | | |
| 9/21/2016 | 138 | 216 | 214 | | | | | |
| 11/1/2016 | | | | | | | | |
| 11/2/2016 | | | | | | | | |
| 11/3/2016 | | | | | | | | |
| 11/4/2016 | | | | | | 148 | | |
| 11/7/2016 | 291 | 399 | | | | | | |
| 11/8/2016 | | | 229 | | | | | |
| 11/14/2016 | | | | 280 | | | | |
| 11/28/2016 | | | | | 102 | | | |
| 12/15/2016 | | | | | | 191 | | |
| 1/10/2017 | | | | | | | | |
| 1/11/2017 | | | | | | | | |
| 1/12/2017 | | | | | | | | |
| 1/13/2017 | | | | | | | | |
| 1/16/2017 | | | | | | 180 | | |
| 1/18/2017 | | 215 (D) | 243 (D) | | | | | |
| 1/19/2017 | 145 (D) | | | | | | | |
| 2/21/2017 | | 198 | | | | | | |
| 2/22/2017 | 185 | | 310 | | 164 | | | |
| 2/23/2017 | | | | | | | | |
| 2/24/2017 | | | | 162 | | | | |
| 3/1/2017 | | | | | | | | |
| 3/2/2017 | | | | | | | | |
| 3/3/2017 | | | | | | 156 | | |
| 3/6/2017 | | | | | | | | |
| 3/7/2017 | | | | | | | | |
| 3/8/2017 | | | | | | | | |
| 4/26/2017 | | | | | | | | |
| 4/27/2017 | | | | | | | | |
| 4/28/2017 | | | | | | 130 | | |
| 5/1/2017 | | | | | | | | |
| 5/2/2017 | | | | | | | | |

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWC-29IB | YGWC-28S | YGWC-28I | YGWA-47 (bg) | GWA-2 (bg) | YGWA-2I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|---|
| 5/3/2017 | | | | | | | | |
| 5/5/2017 | | 347 | 289 | | | | | |
| 5/8/2017 | 114 | | | 194 | 145 | | | |
| 5/26/2017 | | | | | | 223 | | |
| 6/27/2017 | | | | | | | | |
| 6/28/2017 | | | | | | 166 | | |
| 6/29/2017 | | | | | | | | |
| 6/30/2017 | | | | | | | | |
| 7/5/2017 | 136 | | 217 | | | | | |
| 7/7/2017 | | 236 | | | | | | |
| 7/10/2017 | | | | | | | | |
| 7/11/2017 | | | | 193 | | | | |
| 7/17/2017 | | | | | 185 | | | |
| 10/3/2017 | | | | | | 153 | | |
| 10/4/2017 | | | | | | | | |
| 10/5/2017 | 139 | | 221 | | | | | |
| 10/6/2017 | | | | | | | | |
| 10/9/2017 | | 204 | | | | | | |
| 10/10/2017 | | | | 175 | | | | |
| 10/11/2017 | | | | | | | 68 | |
| 10/12/2017 | | | | | | | | 74 |
| 10/16/2017 | | | | | 218 | | | |
| 11/20/2017 | | | | | | | 139 | 179 |
| 1/10/2018 | | | | | | | | 140 |
| 1/11/2018 | | | | | | | 153 | |
| 2/19/2018 | | | | | 173 | | | 119 |
| 2/20/2018 | | | | | | | 87 | |
| 4/2/2018 | | | | 192 | | | | |
| 4/3/2018 | | | | | | | 85 | 106 |
| 6/5/2018 | | | | | | | | |
| 6/6/2018 | | | | | | | | |
| 6/7/2018 | | | | | | 146 | | |
| 6/8/2018 | | | | | | | | |
| 6/11/2018 | 156 | | | | | | | |
| 6/12/2018 | | 243 | 234 | | | | | |
| 6/13/2018 | | | | | | | | |
| 6/28/2018 | | | | | | | 88 | 112 |
| 8/6/2018 | | | | | 158 | | | |
| 8/7/2018 | | | | | | | 89 | 103 |
| 9/19/2018 | | | | 186 | | | | |
| 9/24/2018 | | | | | | | 82 | 107 |
| 9/25/2018 | | | | | | | | |
| 9/26/2018 | | | | | | | | |
| 10/1/2018 | | | | | | 155 | | |
| 10/2/2018 | 154 | | | | | | | |
| 10/3/2018 | | 237 | 232 | | | | | |
| 2/25/2019 | | | | | 92 | | | |
| 3/26/2019 | | | | | | | | 90 |
| 3/27/2019 | | | | 170 | | | 75 | |
| 3/28/2019 | | | | | | | | |
| 3/29/2019 | | | | | | 150 | | |
| 4/1/2019 | 147 | | 238 | | | | | |

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

| | YGWC-29IB | YGWC-28S | YGWC-28I | YGWA-47 (bg) | GWA-2 (bg) | YGWA-2I (bg) | YGWA-39 (bg) | YGWA-40 (bg) |
|---|---|---|---|---|---|---|---|---|
| 4/2/2019 | | <25 | | | | | | |
| 4/3/2019 | | | | | | | | |
| 6/12/2019 | | | | | 226 | | | |
| 9/24/2019 | | | | | | 146 | | |
| 9/25/2019 | 162 | | | | | | | |
| 9/26/2019 | | 239 | 241 | | | | | |
| 10/8/2019 | | | | 172 | 276 | | | |
| 10/9/2019 | | | | | | | 119 | 98 |
| 3/17/2020 | | | | 165 | 185 | | | |
| 3/18/2020 | | | | | | | | |
| 3/19/2020 | | 202 | 212 | | | 148 | | |
| 3/20/2020 | 137 | | | | | | | |
| 3/24/2020 | | | | | | | | 84 |
| 3/25/2020 | | | | | | | 158 | |
| 9/22/2020 | | | | 141 | 281 | | | |
| 9/23/2020 | | | | | | 161 | | |
| 9/24/2020 | 133 | 226 | 209 | | | | 170 | 77 |
| 9/25/2020 | | | | | | | | |
| 3/1/2021 | | | | 145 | | | | |
| 3/2/2021 | | | | | 296 | | | |
| 3/3/2021 | 110 | 217 | 184 | | | 138 | | |
| 3/4/2021 | | | | | | | 168 | 57 |
| 8/19/2021 | | | | 134 | | | | |
| 8/20/2021 | 110 | 192 | 194 | | 254 | | | |
| 8/26/2021 | | | | | | | 249 | |
| 8/27/2021 | | | | | | 150 | | |
| 9/1/2021 | | | | | | | | |
| 9/3/2021 | | | | | | | | 88 |
| 2/8/2022 | 120 | 216 | 206 | 151 | 283 | | 248 | 93 |
| 2/9/2022 | | | | | | 156 | | |
| 2/10/2022 | | | | | | | | |
| 2/11/2022 | | | | | | | | |
| 8/30/2022 | | | | | 244 | 153 | | |
| 8/31/2022 | | | | 116 | | | 242 | 92 |
| 9/1/2022 | 128 | 225 | 186 | | | | | |
| 2/7/2023 | | | | | 207 | 159 | 224 | |
| 2/8/2023 | 158 | | | 141 | | | | 115 |
| 2/9/2023 | | 226 | 184 | | | | | |
| 8/2/2023 | 152 | | | | | | | |
| 8/15/2023 | | | | 186 | 230 | 157 | 225 | 83 |
| 8/16/2023 | | 233 | 171 | | | | | |
| 8/17/2023 | | | | | | | | |
| 2/20/2024 | | | | 159 | 214 | 159 | 233 | 109 |
| 2/21/2024 | | 235 | 213 | | | | | |
| 2/22/2024 | 146 | | | | | | | |
| 2/23/2024 | | | | | | | | |

ND substitution: RL or RL/2 if <15% NDs.

# FIGURE E.

# Appendix III Trend Tests - Significant Results

Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 9:59 AM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Alpha | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| Boron (mg/L) | YGWC-26I | -0.03677 | -123 | -92 | Yes | 22 | 0 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWC-26S | 0.01731 | 102 | 92 | Yes | 22 | 0 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWC-27S | -0.06015 | -111 | -92 | Yes | 22 | 0 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-39 (bg) | 0.01889 | 102 | 74 | Yes | 19 | 5.263 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-40 (bg) | -0.01292 | -120 | -74 | Yes | 19 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWA-3D (bg) | -0.0365 | -113 | -92 | Yes | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWC-26I | -0.3595 | -121 | -92 | Yes | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWC-26S | -0.3619 | -106 | -92 | Yes | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWC-27S | -1.464 | -179 | -92 | Yes | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWC-28S | -0.2879 | -93 | -92 | Yes | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWA-47 (bg) | -0.3666 | -125 | -74 | Yes | 19 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWA-17S (bg) | 0.7862 | 183 | 92 | Yes | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWA-18I (bg) | 0.09154 | 113 | 92 | Yes | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWA-20S (bg) | 0.09892 | 145 | 92 | Yes | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWA-39 (bg) | 0.6099 | 76 | 74 | Yes | 19 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWA-40 (bg) | 0.2696 | 101 | 74 | Yes | 19 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWA-5D (bg) | -0.5923 | -176 | -92 | Yes | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | GWA-2 (bg) | 0.2946 | 117 | 81 | Yes | 20 | 0 | n/a | 0.01 | NP |

# Appendix III Trend Tests - All Results

Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 9:59 AM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Alpha | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| Boron (mg/L) | YGWA-14S (bg) | -0.0002056 | -33 | -92 | No | 22 | 9.091 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-1D (bg) | 0.001069 | 59 | 92 | No | 22 | 40.91 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-1I (bg) | 0 | -22 | -92 | No | 22 | 68.18 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-2I (bg) | 0 | 6 | 92 | No | 22 | 81.82 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-30I (bg) | 0 | -10 | -92 | No | 22 | 86.36 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-3D (bg) | 0 | 24 | 92 | No | 22 | 63.64 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-3I (bg) | 0 | -11 | -92 | No | 22 | 90.91 | n/a | 0.01 | NP |
| **Boron (mg/L)** | **YGWC-26I** | **-0.03677** | **-123** | **-92** | **Yes** | **22** | **0** | **n/a** | **0.01** | **NP** |
| **Boron (mg/L)** | **YGWC-26S** | **0.01731** | **102** | **92** | **Yes** | **22** | **0** | **n/a** | **0.01** | **NP** |
| Boron (mg/L) | YGWC-27I | 0.03489 | 49 | 92 | No | 22 | 0 | n/a | 0.01 | NP |
| **Boron (mg/L)** | **YGWC-27S** | **-0.06015** | **-111** | **-92** | **Yes** | **22** | **0** | **n/a** | **0.01** | **NP** |
| Boron (mg/L) | YGWC-28I | -0.08449 | -76 | -92 | No | 22 | 0 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWC-28S | -0.0293 | -40 | -92 | No | 22 | 0 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-47 (bg) | -0.0003761 | -34 | -74 | No | 19 | 5.263 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-17S (bg) | 0.0005659 | 73 | 92 | No | 22 | 18.18 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-18I (bg) | 0 | -10 | -92 | No | 22 | 81.82 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-18S (bg) | 0.0008073 | 63 | 92 | No | 22 | 27.27 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-20S (bg) | 0 | -3 | -92 | No | 22 | 90.91 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-21I (bg) | 0 | -21 | -92 | No | 22 | 59.09 | n/a | 0.01 | NP |
| **Boron (mg/L)** | **YGWA-39 (bg)** | **0.01889** | **102** | **74** | **Yes** | **19** | **5.263** | **n/a** | **0.01** | **NP** |
| **Boron (mg/L)** | **YGWA-40 (bg)** | **-0.01292** | **-120** | **-74** | **Yes** | **19** | **0** | **n/a** | **0.01** | **NP** |
| Boron (mg/L) | YGWA-4I (bg) | 0 | 19 | 92 | No | 22 | 72.73 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-5D (bg) | 0.000669 | 82 | 92 | No | 22 | 22.73 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWA-5I (bg) | 0 | -4 | -92 | No | 22 | 68.18 | n/a | 0.01 | NP |
| Boron (mg/L) | GWA-2 (bg) | 0 | 26 | 81 | No | 20 | 65 | n/a | 0.01 | NP |
| Boron (mg/L) | YGWC-29IB | -0.01629 | -63 | -92 | No | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWA-14S (bg) | 0.09834 | 63 | 92 | No | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWA-1D (bg) | 0 | -38 | -92 | No | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWA-1I (bg) | -0.01344 | -44 | -92 | No | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWA-2I (bg) | -0.01682 | -50 | -92 | No | 22 | 0 | n/a | 0.01 | NP |
| Chloride (mg/L) | YGWA-30I (bg) | -0.02485 | -61 | -92 | No | 22 | 0 | n/a | 0.01 | NP |
| **Chloride (mg/L)** | **YGWA-3D (bg)** | **-0.0365** | **-113** | **-92** | **Yes** | **22** | **0** | **n/a** | **0.01** | **NP** |
| Chloride (mg/L) | YGWA-3I (bg) | -0.01926 | -86 | -92 | No | 22 | 0 | n/a | 0.01 | NP |
| **Chloride (mg/L)** | **YGWC-26I** | **-0.3595** | **-121** | **-92** | **Yes** | **22** | **0** | **n/a** | **0.01** | **NP** |
| **Chloride (mg/L)** | **YGWC-26S** | **-0.3619** | **-106** | **-92** | **Yes** | **22** | **0** | **n/a** | **0.01** | **NP** |
| Chloride (mg/L) | YGWC-27I | -0.06268 | -61 | -92 | No | 22 | 0 | n/a | 0.01 | NP |
| **Chloride (mg/L)** | **YGWC-27S** | **-1.464** | **-179** | **-92** | **Yes** | **22** | **0** | **n/a** | **0.01** | **NP** |
| **Chloride (mg/L)** | **YGWC-28S** | **-0.2879** | **-93** | **-92** | **Yes** | **22** | **0** | **n/a** | **0.01** | **NP** |
| **Chloride (mg/L)** | **YGWA-47 (bg)** | **-0.3666** | **-125** | **-74** | **Yes** | **19** | **0** | **n/a** | **0.01** | **NP** |
| **Chloride (mg/L)** | **YGWA-17S (bg)** | **0.7862** | **183** | **92** | **Yes** | **22** | **0** | **n/a** | **0.01** | **NP** |
| **Chloride (mg/L)** | **YGWA-18I (bg)** | **0.09154** | **113** | **92** | **Yes** | **22** | **0** | **n/a** | **0.01** | **NP** |
| Chloride (mg/L) | YGWA-18S (bg) | 0.08677 | 60 | 92 | No | 22 | 0 | n/a | 0.01 | NP |
| **Chloride (mg/L)** | **YGWA-20S (bg)** | **0.09892** | **145** | **92** | **Yes** | **22** | **0** | **n/a** | **0.01** | **NP** |
| Chloride (mg/L) | YGWA-21I (bg) | -0.06772 | -59 | -92 | No | 22 | 0 | n/a | 0.01 | NP |
| **Chloride (mg/L)** | **YGWA-39 (bg)** | **0.6099** | **76** | **74** | **Yes** | **19** | **0** | **n/a** | **0.01** | **NP** |
| **Chloride (mg/L)** | **YGWA-40 (bg)** | **0.2696** | **101** | **74** | **Yes** | **19** | **0** | **n/a** | **0.01** | **NP** |
| Chloride (mg/L) | YGWA-4I (bg) | 0.06138 | 75 | 92 | No | 22 | 0 | n/a | 0.01 | NP |
| **Chloride (mg/L)** | **YGWA-5D (bg)** | **-0.5923** | **-176** | **-92** | **Yes** | **22** | **0** | **n/a** | **0.01** | **NP** |
| Chloride (mg/L) | YGWA-5I (bg) | 0.01601 | 22 | 92 | No | 22 | 0 | n/a | 0.01 | NP |
| **Chloride (mg/L)** | **GWA-2 (bg)** | **0.2946** | **117** | **81** | **Yes** | **20** | **0** | **n/a** | **0.01** | **NP** |

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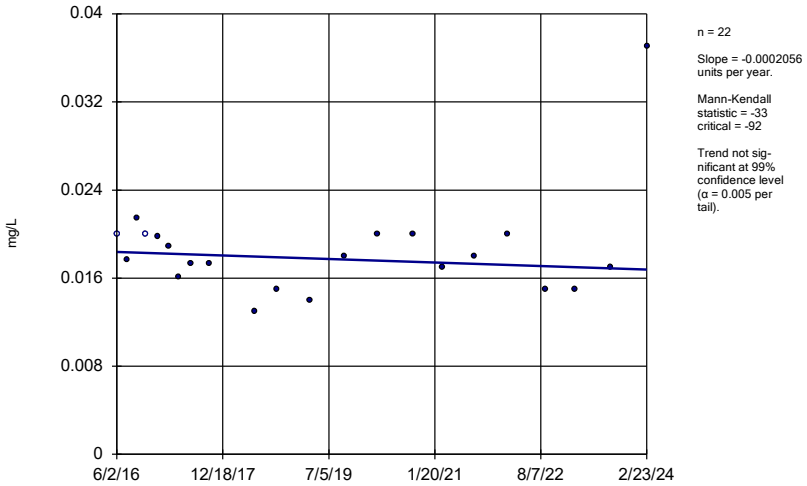
Hollow symbols indicate censored values.

## Sen's Slope Estimator

YGWA-14S (bg)




n = 22

Slope = -0.0002056 units per year.

Mann-Kendall statistic = -33
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron  Analysis Run 5/2/2024 9:58 AM  View: Appendix III - Trend Tests
Plant Yates  Data: Yates Ash Pond 2

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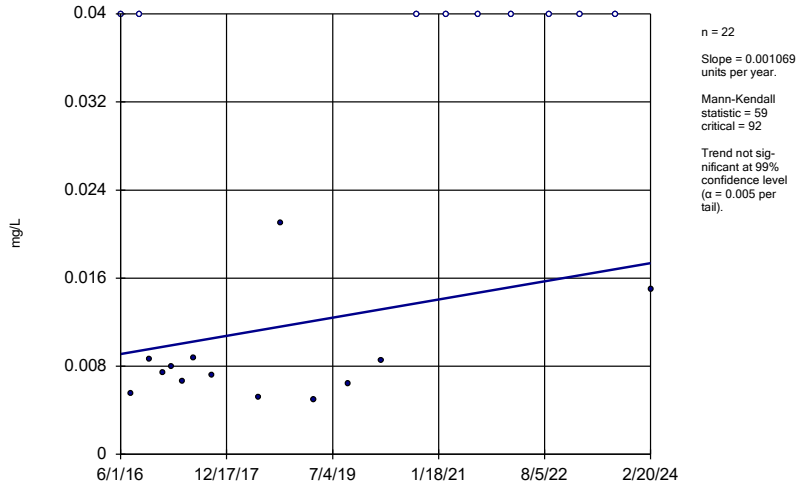
Hollow symbols indicate censored values.

## Sen's Slope Estimator

YGWA-1D (bg)




n = 22

Slope = 0.001069 units per year.

Mann-Kendall statistic = 59
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron  Analysis Run 5/2/2024 9:58 AM  View: Appendix III - Trend Tests
Plant Yates  Data: Yates Ash Pond 2

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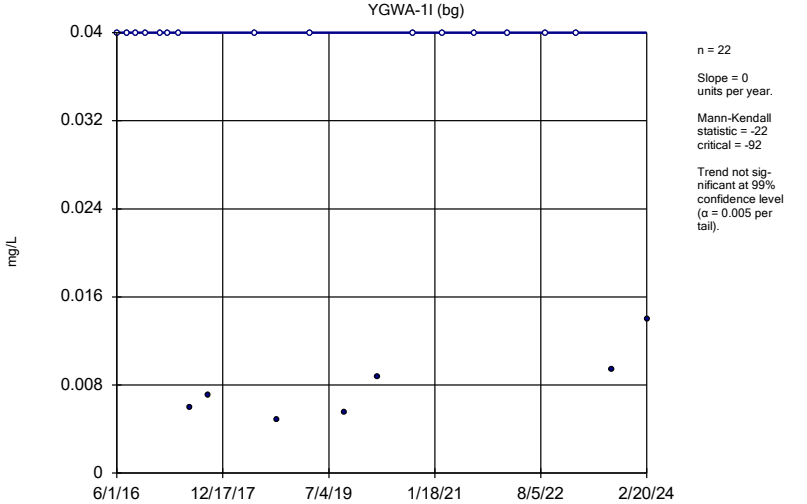
## Sen's Slope Estimator

YGWA-1I (bg)




n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -22
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron  Analysis Run 5/2/2024 9:58 AM  View: Appendix III - Trend Tests
Plant Yates  Data: Yates Ash Pond 2

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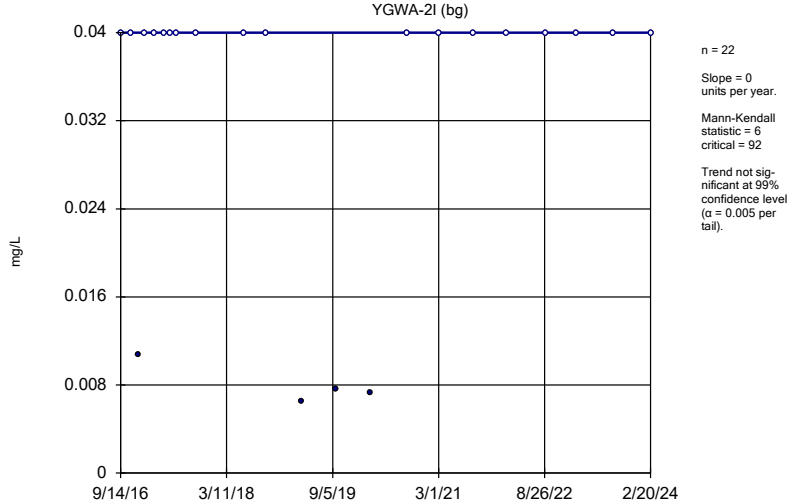
Hollow symbols indicate censored values.

## Sen's Slope Estimator

YGWA-2I (bg)




n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 6
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron  Analysis Run 5/2/2024 9:58 AM  View: Appendix III - Trend Tests
Plant Yates  Data: Yates Ash Pond 2

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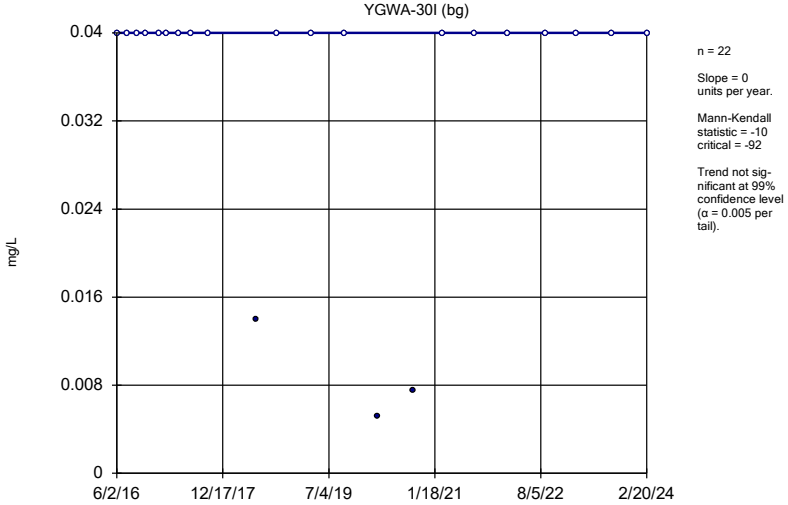
## Sen's Slope Estimator

YGWA-30I (bg)




n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -10
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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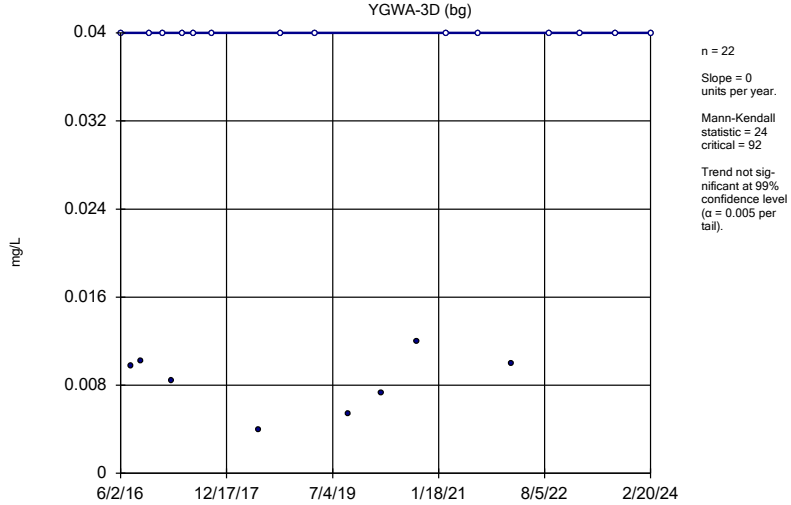
Hollow symbols indicate censored values.

## Sen's Slope Estimator

YGWA-3D (bg)




n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 24
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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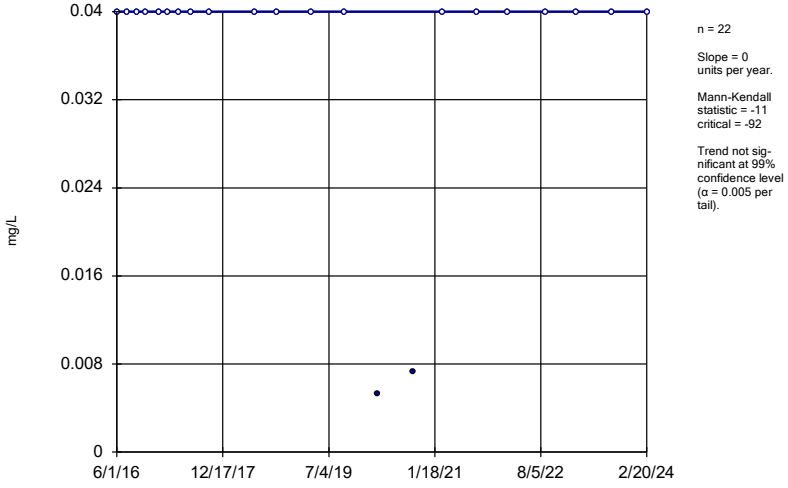
Hollow symbols indicate censored values.

## Sen's Slope Estimator

YGWA-3I (bg)




n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -11
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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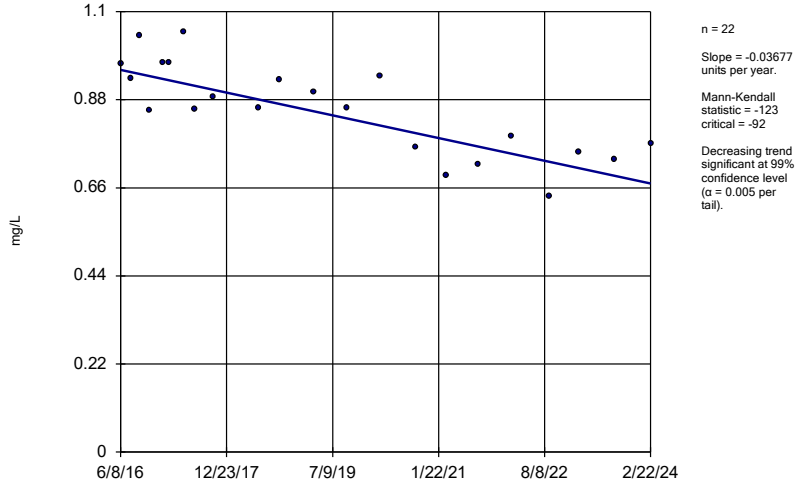
## Sen's Slope Estimator

YGWC-26I




n = 22

Slope = -0.03677 units per year.

Mann-Kendall statistic = -123
critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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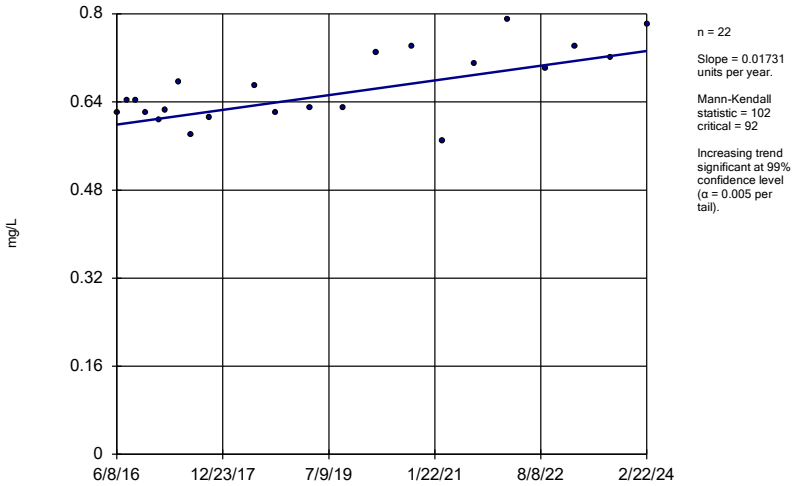
## Sen's Slope Estimator

YGWC-26S




n = 22

Slope = 0.01731 units per year.

Mann-Kendall statistic = 102
critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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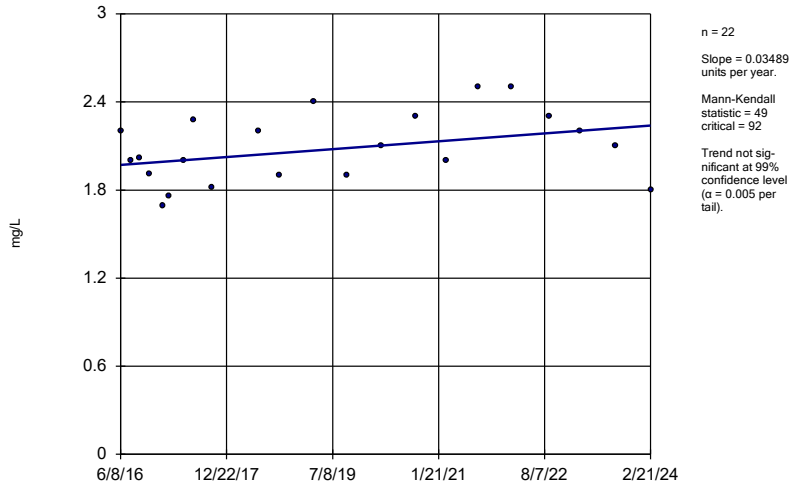
## Sen's Slope Estimator

YGWC-27I




n = 22

Slope = 0.03489 units per year.

Mann-Kendall statistic = 49
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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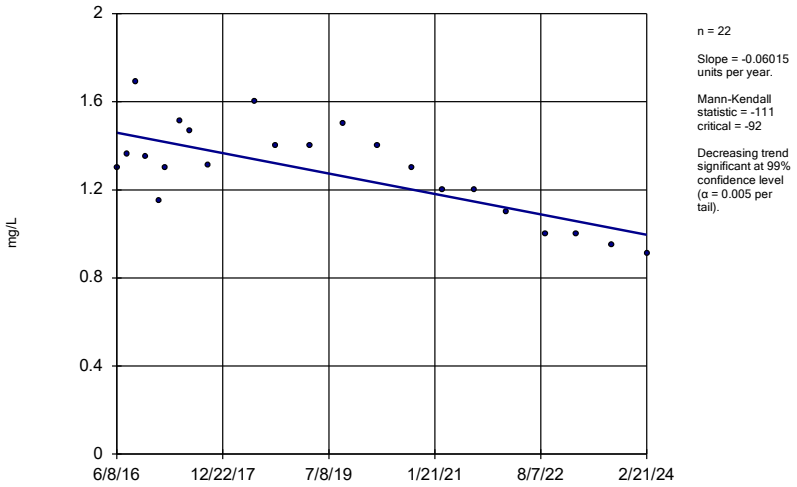
## Sen's Slope Estimator

YGWC-27S




n = 22

Slope = -0.06015 units per year.

Mann-Kendall statistic = -111
critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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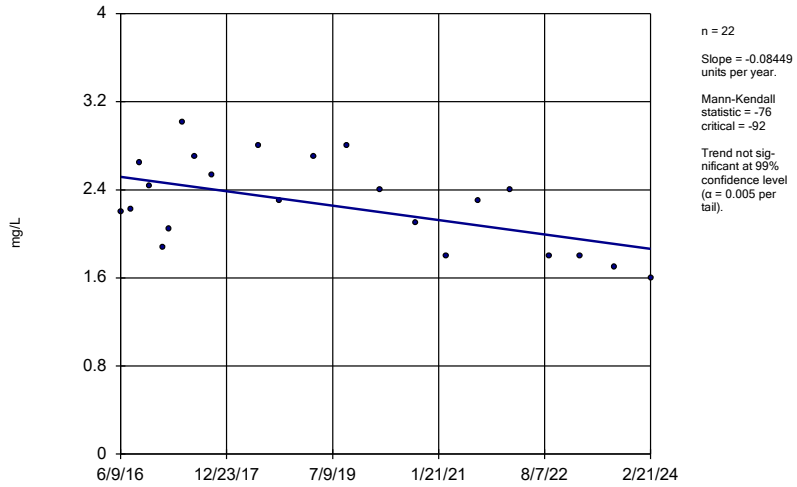
## Sen's Slope Estimator

YGWC-28I




n = 22

Slope = -0.08449 units per year.

Mann-Kendall statistic = -76
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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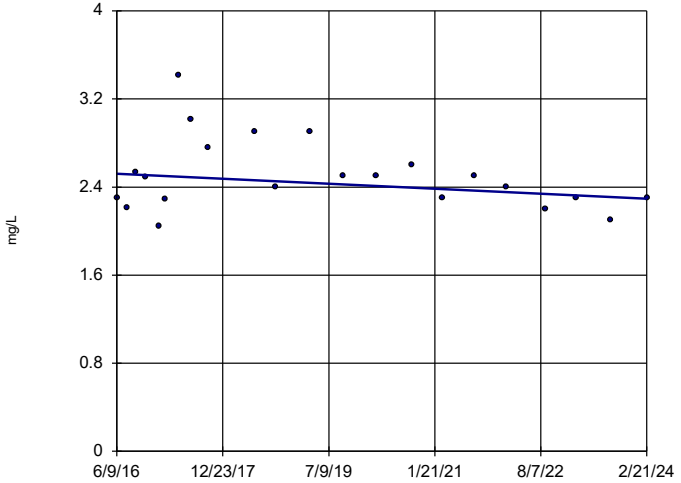
## Sen's Slope Estimator

YGWC-28S




n = 22

Slope = -0.0293 units per year.

Mann-Kendall statistic = -40 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests

Plant Yates Data: Yates Ash Pond 2

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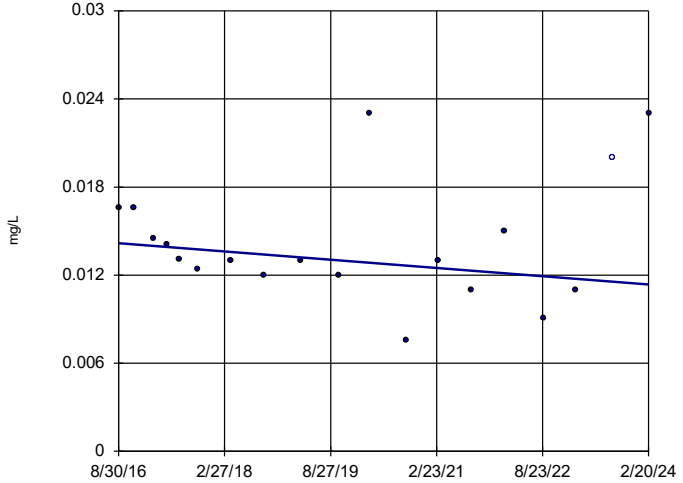
Hollow symbols indicate censored values.

## Sen's Slope Estimator

YGWA-47 (bg)




n = 19

Slope = -0.0003761 units per year.

Mann-Kendall statistic = -34 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests

Plant Yates Data: Yates Ash Pond 2

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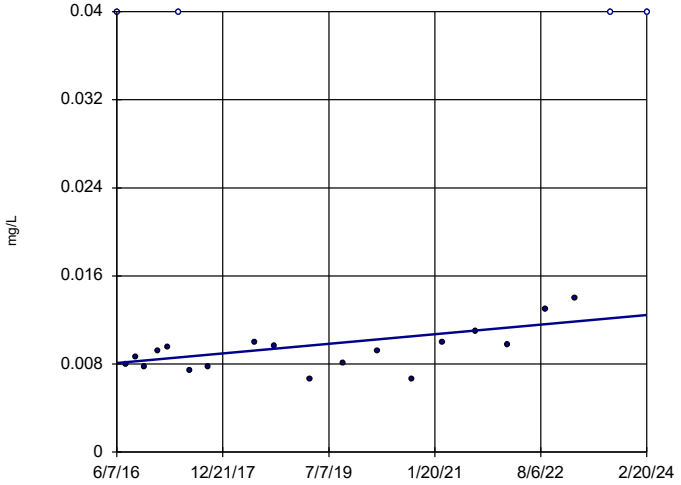
Hollow symbols indicate censored values.

## Sen's Slope Estimator

YGWA-17S (bg)




n = 22

Slope = 0.0005659 units per year.

Mann-Kendall statistic = 73 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests

Plant Yates Data: Yates Ash Pond 2

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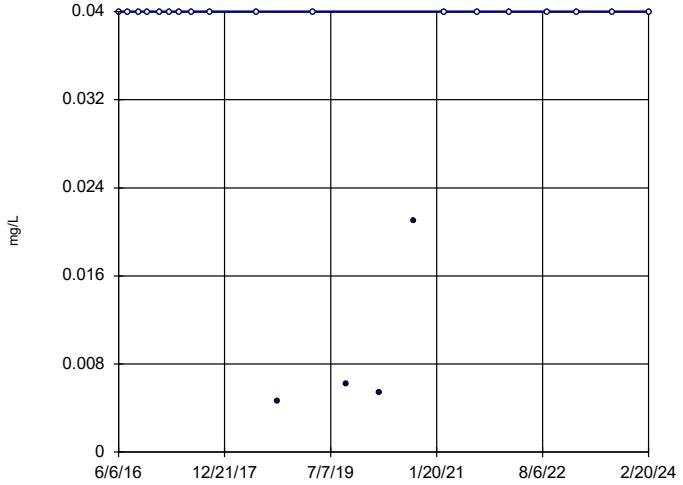
Hollow symbols indicate censored values.

## Sen's Slope Estimator

YGWA-18I (bg)




n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -10 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests

Plant Yates Data: Yates Ash Pond 2

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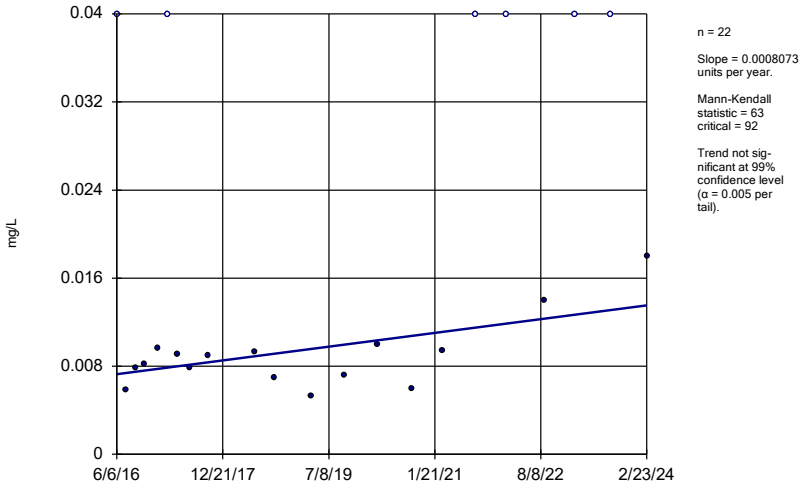
Hollow symbols indicate censored values.

## Sen's Slope Estimator

YGWA-18S (bg)




n = 22

Slope = 0.0008073 units per year.

Mann-Kendall statistic = 63
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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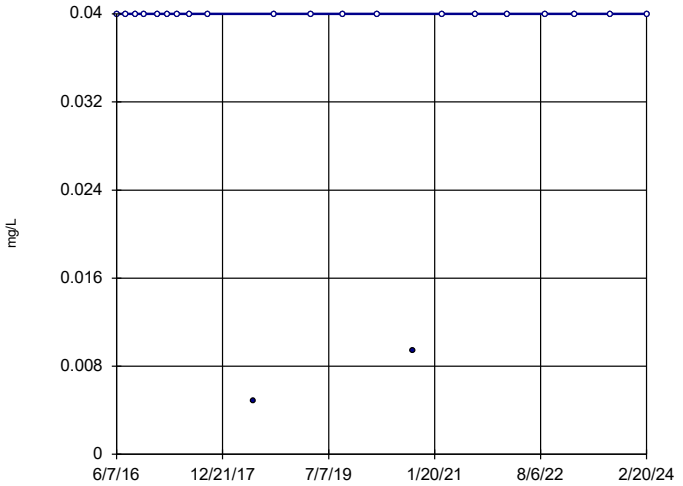
Hollow symbols indicate censored values.

## Sen's Slope Estimator

YGWA-20S (bg)




n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -3
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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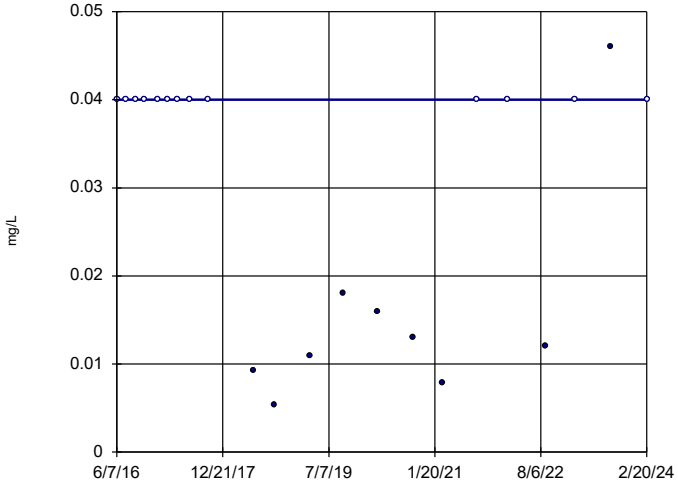
Hollow symbols indicate censored values.

## Sen's Slope Estimator

YGWA-21I (bg)




n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -21
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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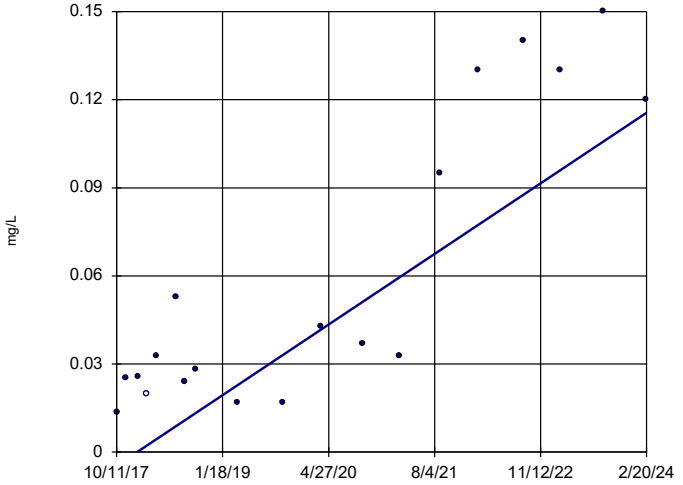
Hollow symbols indicate censored values.

## Sen's Slope Estimator

YGWA-39 (bg)




n = 19

Slope = 0.01889 units per year.

Mann-Kendall statistic = 102
critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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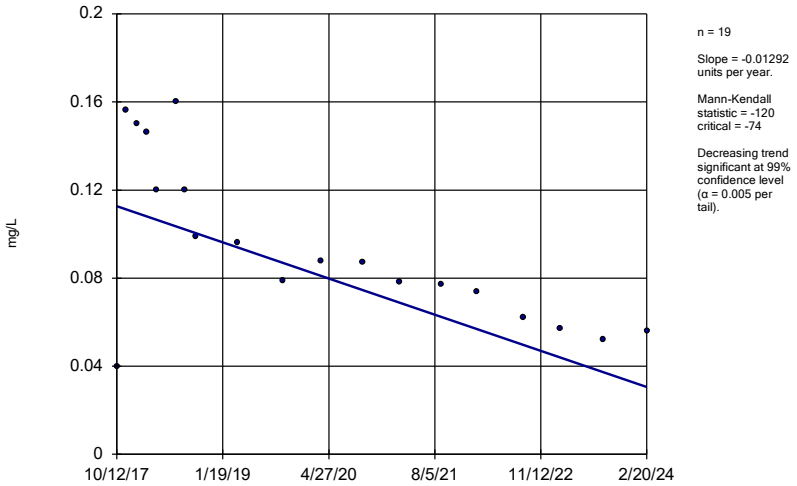
## Sen's Slope Estimator

YGWA-40 (bg)




n = 19

Slope = -0.01292 units per year.

Mann-Kendall statistic = -120
critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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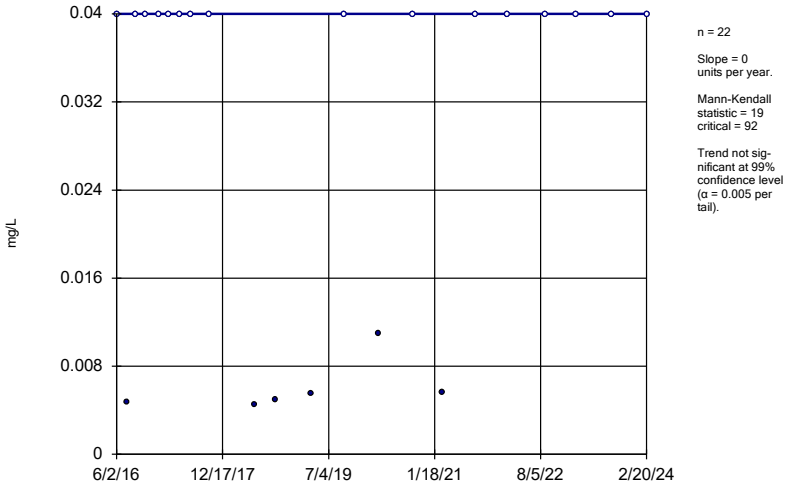
Hollow symbols indicate censored values.

## Sen's Slope Estimator

YGWA-4I (bg)




n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 19
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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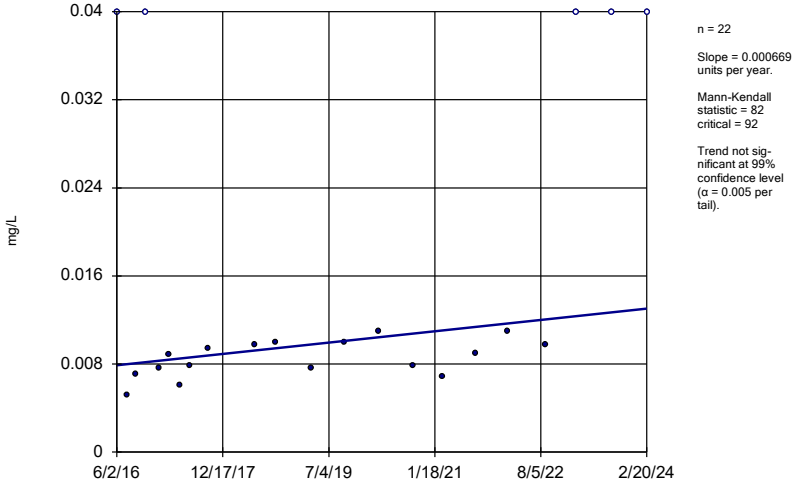
Hollow symbols indicate censored values.

## Sen's Slope Estimator

YGWA-5D (bg)




n = 22

Slope = 0.000669 units per year.

Mann-Kendall statistic = 82
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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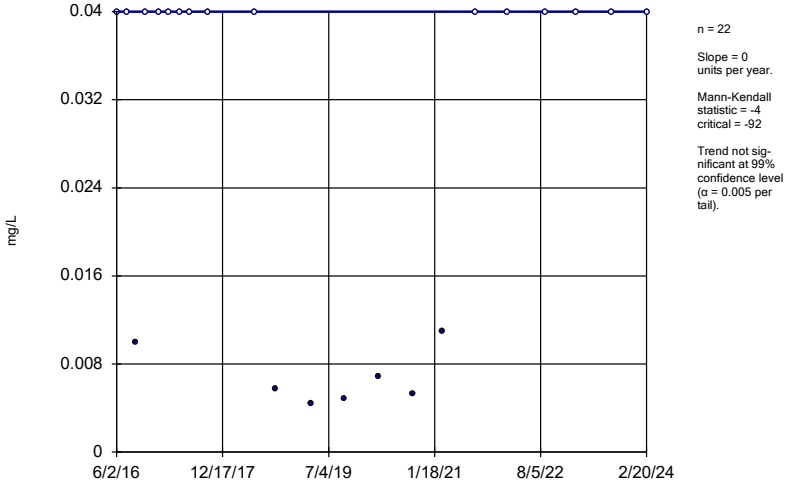
Hollow symbols indicate censored values.

## Sen's Slope Estimator

YGWA-5I (bg)




n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -4
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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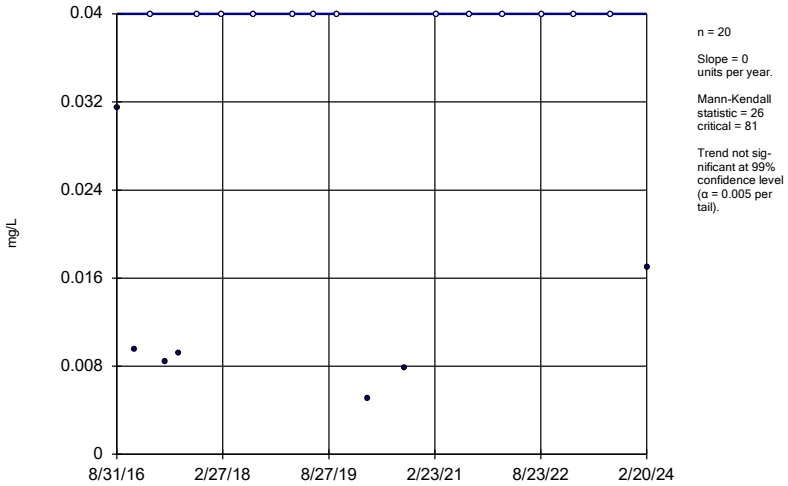
Hollow symbols indicate censored values.

## Sen's Slope Estimator

GWA-2 (bg)




n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 26 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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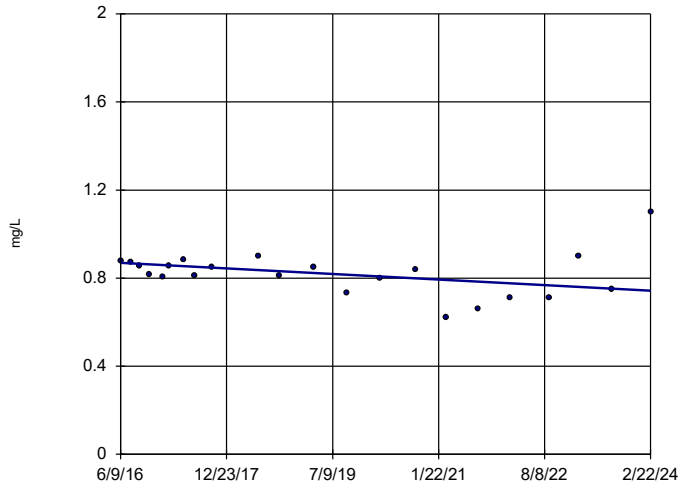
## Sen's Slope Estimator

YGWC-29IB




n = 22

Slope = -0.01629 units per year.

Mann-Kendall statistic = -63 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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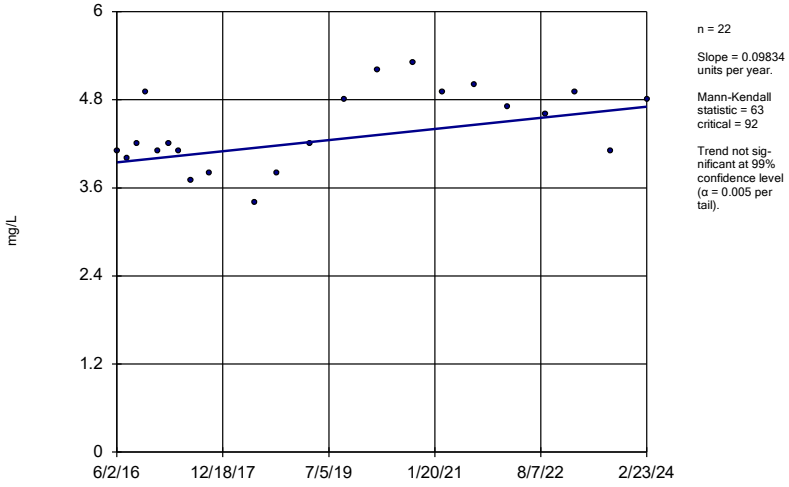
## Sen's Slope Estimator

YGWA-14S (bg)




n = 22

Slope = 0.09834 units per year.

Mann-Kendall statistic = 63 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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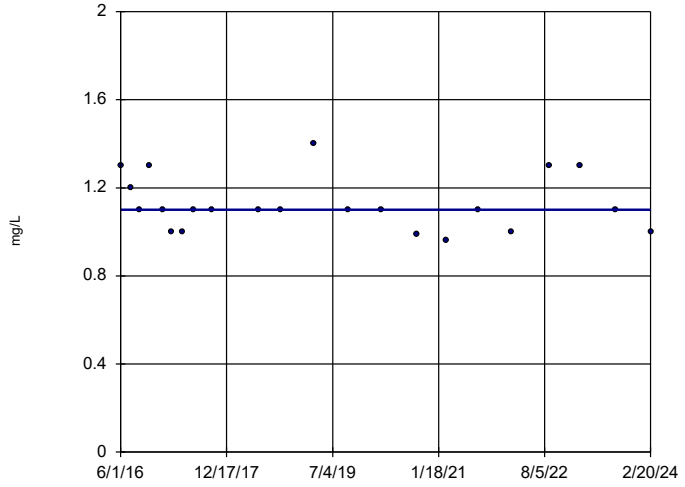
## Sen's Slope Estimator

YGWA-1D (bg)




n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -38 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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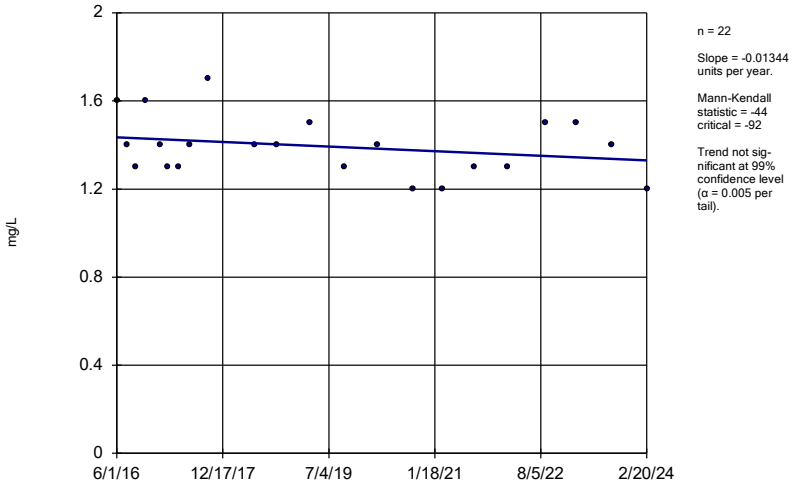
## Sen's Slope Estimator

YGWA-1I (bg)




n = 22

Slope = -0.01344 units per year.

Mann-Kendall statistic = -44
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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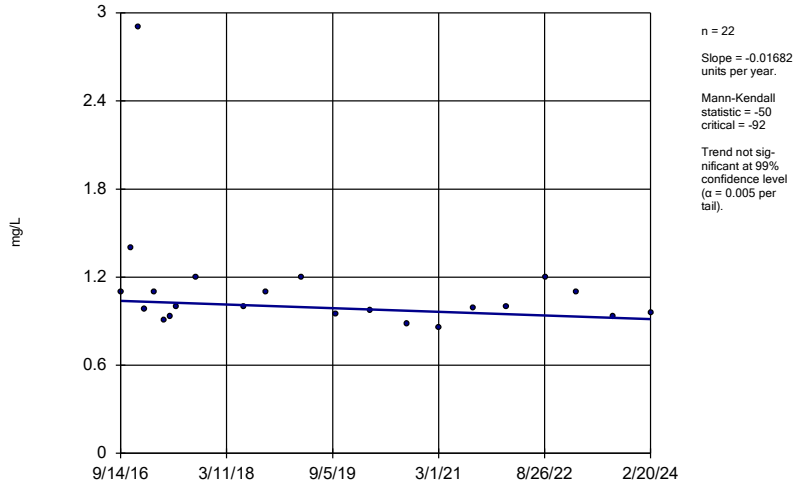
## Sen's Slope Estimator

YGWA-2I (bg)




n = 22

Slope = -0.01682 units per year.

Mann-Kendall statistic = -50
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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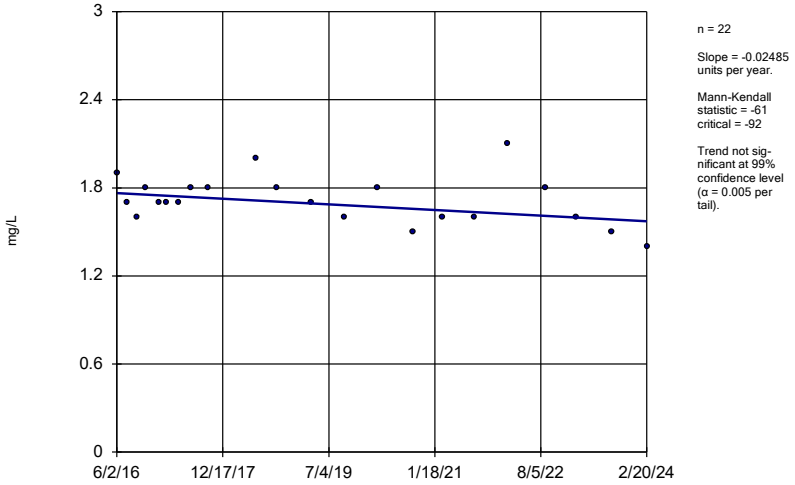
## Sen's Slope Estimator

YGWA-30I (bg)




n = 22

Slope = -0.02485 units per year.

Mann-Kendall statistic = -61
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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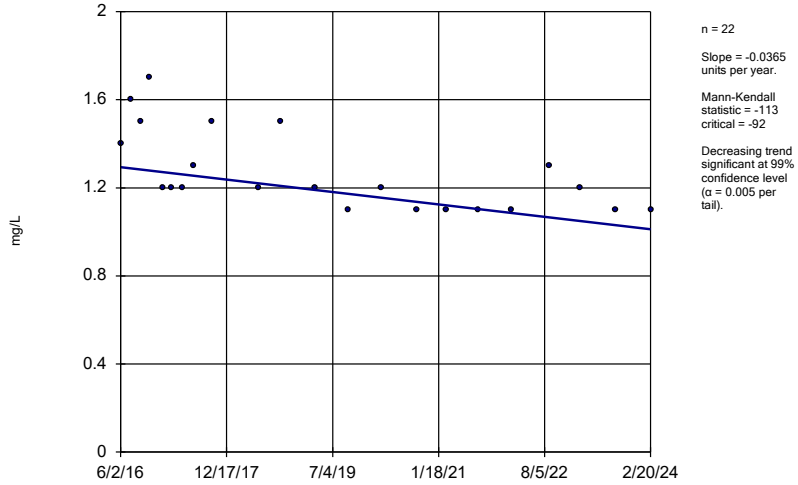
## Sen's Slope Estimator

YGWA-3D (bg)




n = 22

Slope = -0.0365 units per year.

Mann-Kendall statistic = -113
critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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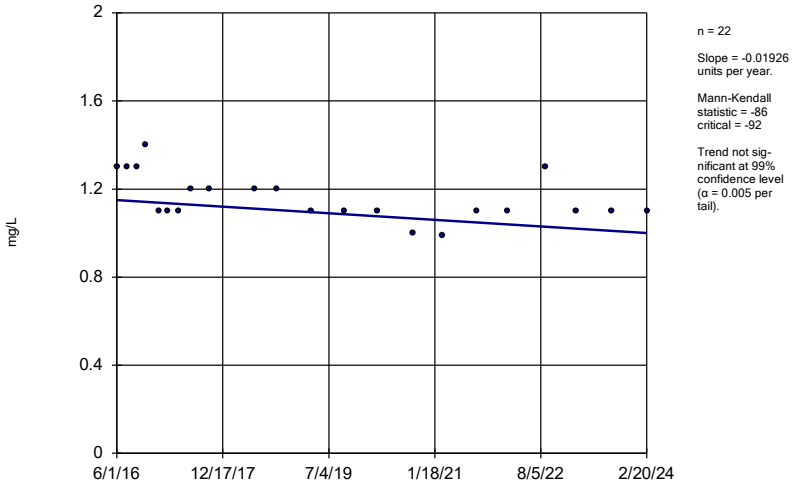
## Sen's Slope Estimator

YGWA-3I (bg)




n = 22

Slope = -0.01926 units per year.

Mann-Kendall statistic = -86
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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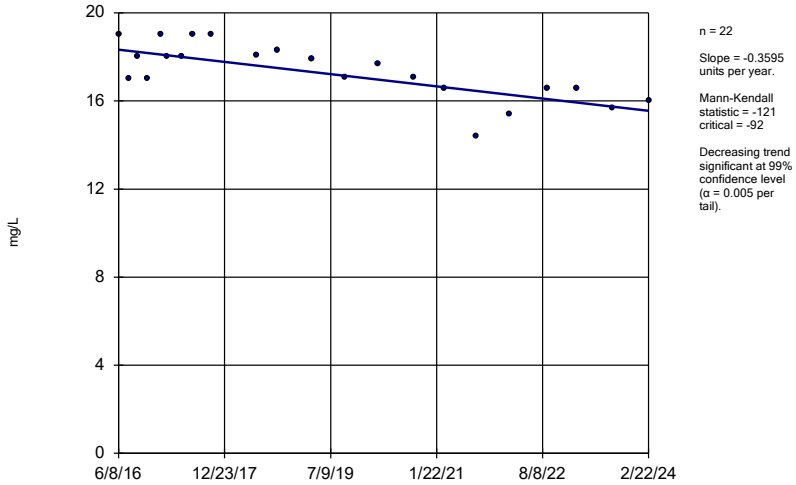
## Sen's Slope Estimator

YGWC-26I




n = 22

Slope = -0.3595 units per year.

Mann-Kendall statistic = -121
critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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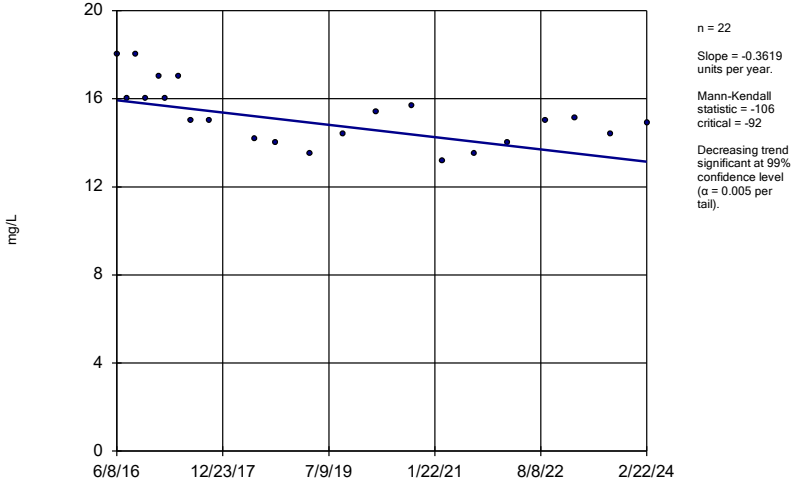
## Sen's Slope Estimator

YGWC-26S




n = 22

Slope = -0.3619 units per year.

Mann-Kendall statistic = -106
critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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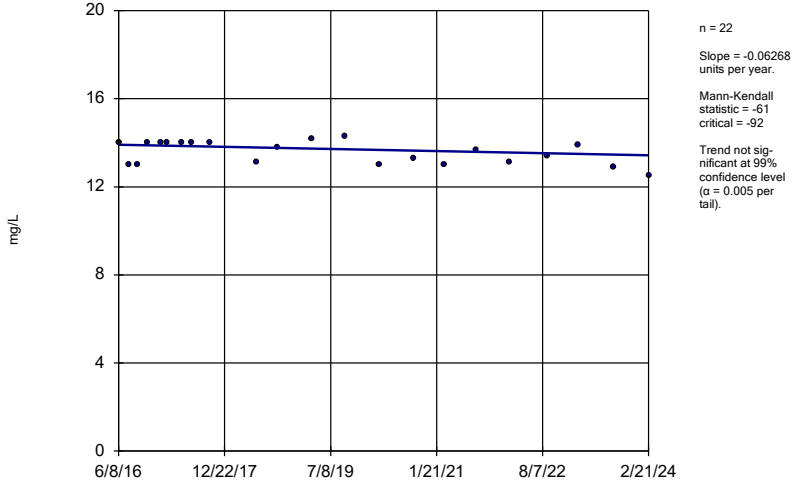
## Sen's Slope Estimator

YGWC-27I




n = 22

Slope = -0.06268 units per year.

Mann-Kendall statistic = -61
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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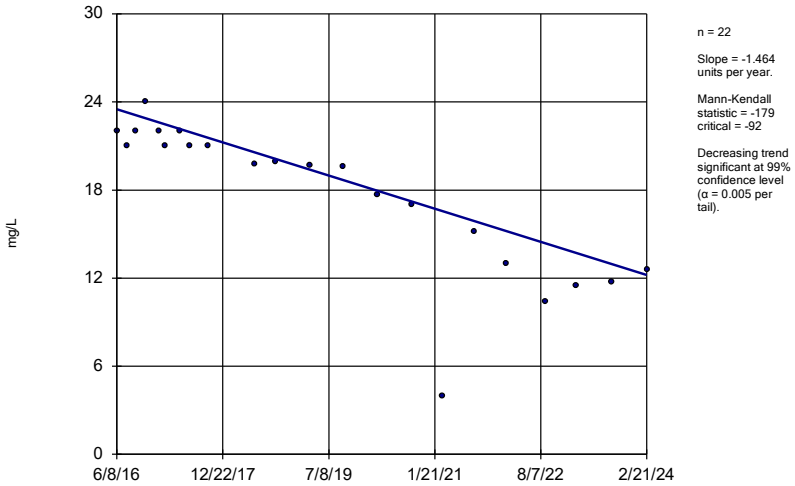
## Sen's Slope Estimator

YGWC-27S




n = 22

Slope = -1.464 units per year.

Mann-Kendall statistic = -179 critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests

Plant Yates Data: Yates Ash Pond 2

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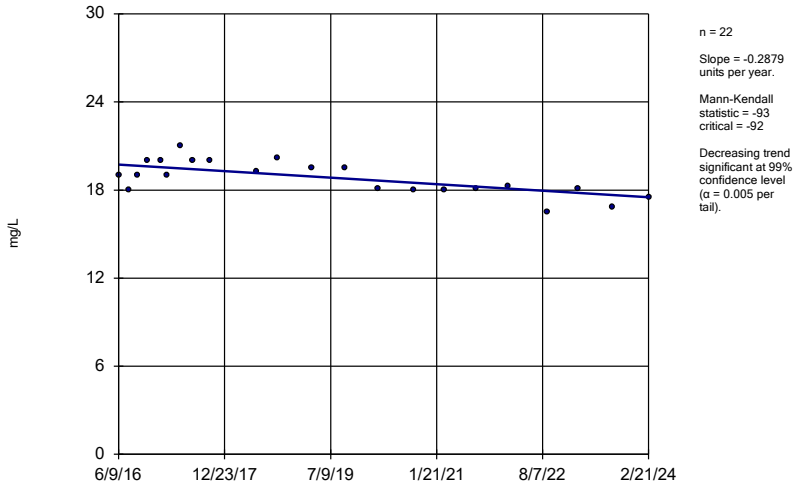
## Sen's Slope Estimator

YGWC-28S




n = 22

Slope = -0.2879 units per year.

Mann-Kendall statistic = -93 critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests

Plant Yates Data: Yates Ash Pond 2

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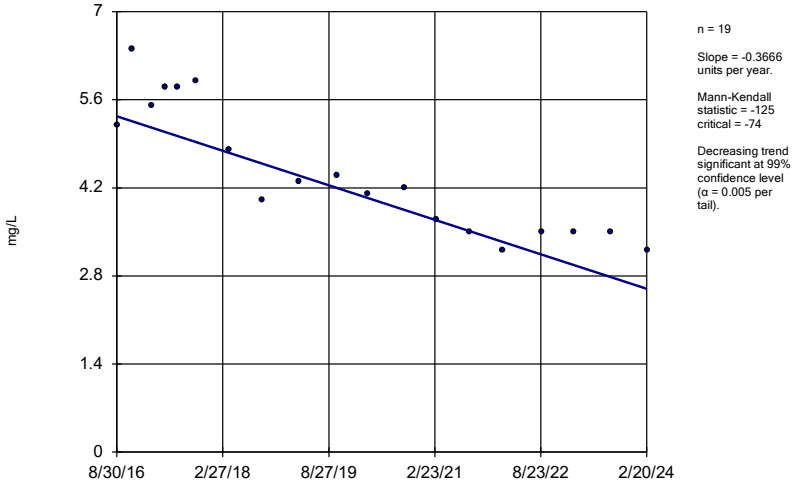
## Sen's Slope Estimator

YGWA-47 (bg)




n = 19

Slope = -0.3666 units per year.

Mann-Kendall statistic = -125 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests

Plant Yates Data: Yates Ash Pond 2

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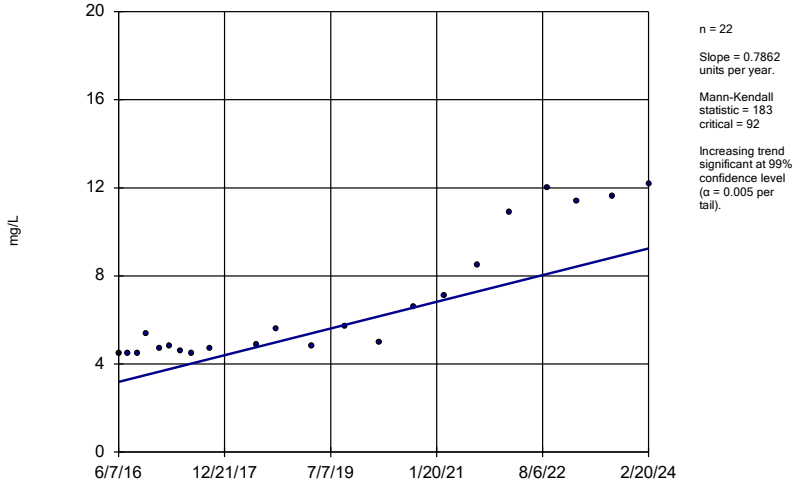
## Sen's Slope Estimator

YGWA-17S (bg)




n = 22

Slope = 0.7862 units per year.

Mann-Kendall statistic = 183 critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests

Plant Yates Data: Yates Ash Pond 2

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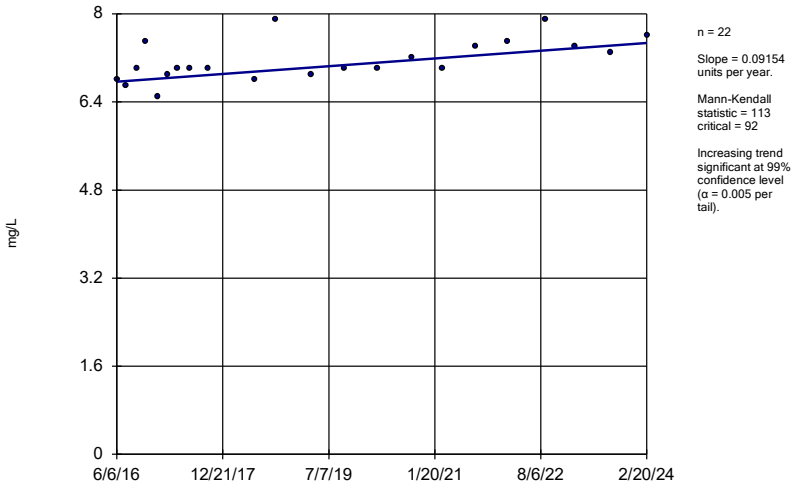
## Sen's Slope Estimator

YGWA-18I (bg)




n = 22

Slope = 0.09154 units per year.

Mann-Kendall statistic = 113
critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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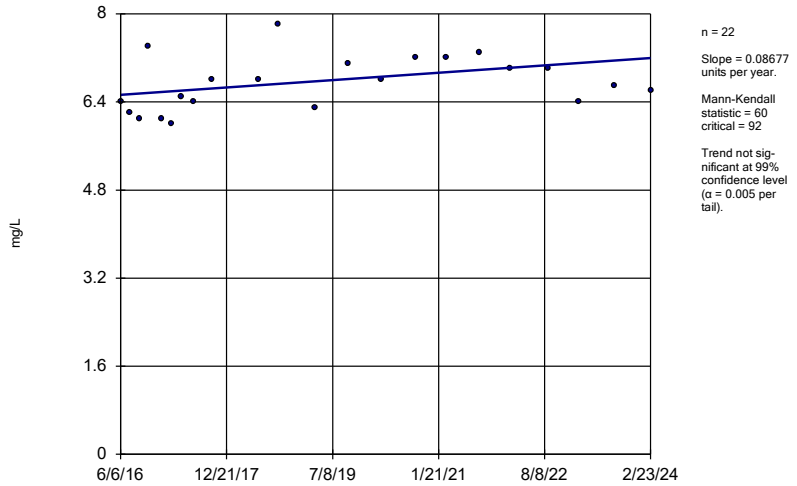
## Sen's Slope Estimator

YGWA-18S (bg)




n = 22

Slope = 0.08677 units per year.

Mann-Kendall statistic = 60
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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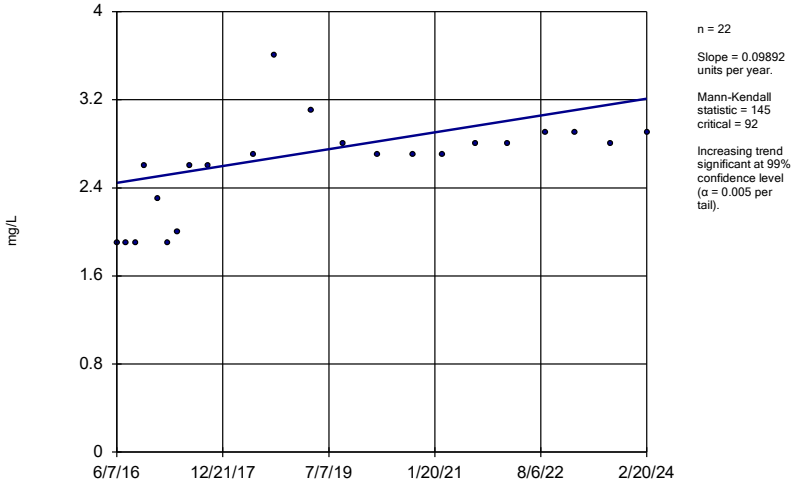
## Sen's Slope Estimator

YGWA-20S (bg)




n = 22

Slope = 0.09892 units per year.

Mann-Kendall statistic = 145
critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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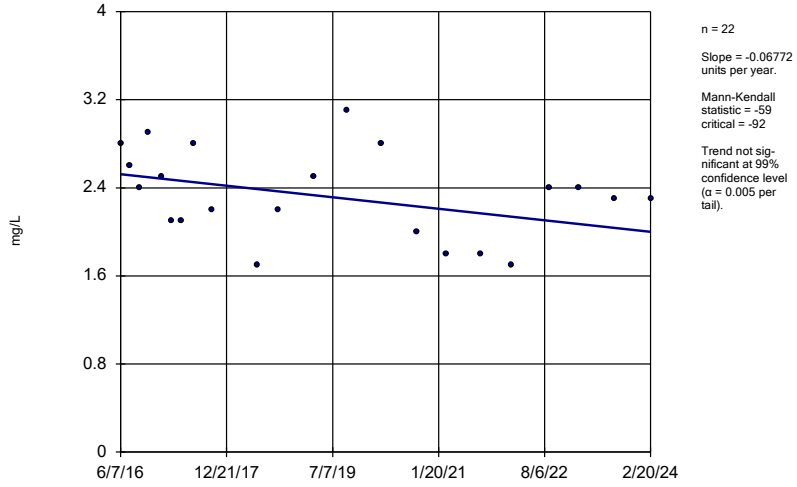
## Sen's Slope Estimator

YGWA-21I (bg)




n = 22

Slope = -0.06772 units per year.

Mann-Kendall statistic = -59
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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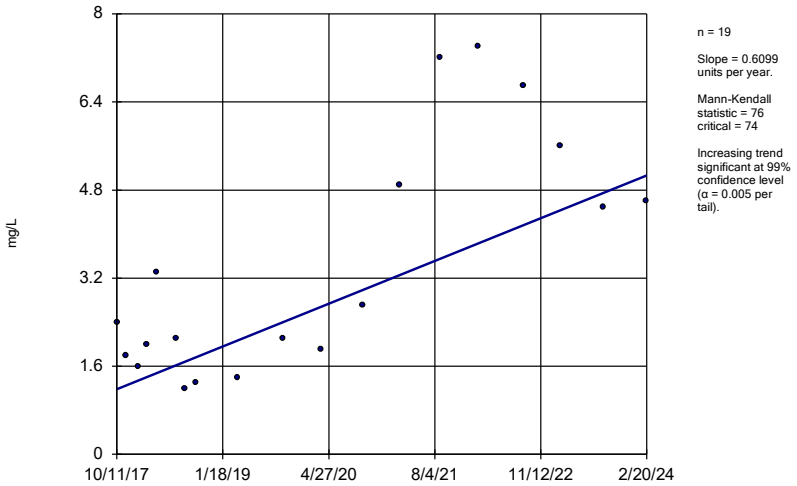
## Sen's Slope Estimator

YGWA-39 (bg)




n = 19

Slope = 0.6099 units per year.

Mann-Kendall statistic = 76
critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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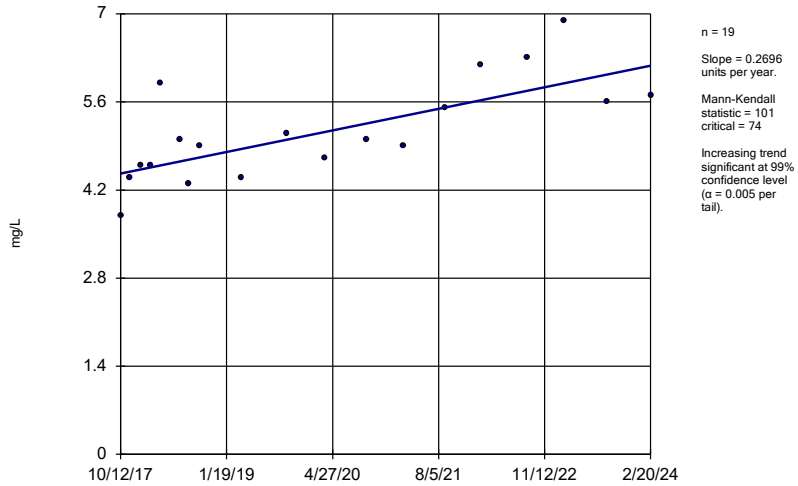
## Sen's Slope Estimator

YGWA-40 (bg)




n = 19

Slope = 0.2696 units per year.

Mann-Kendall statistic = 101
critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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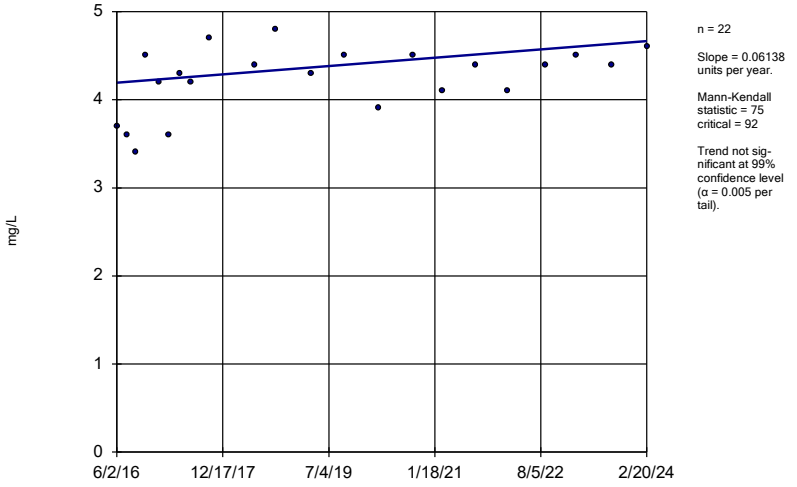
## Sen's Slope Estimator

YGWA-4I (bg)




n = 22

Slope = 0.06138 units per year.

Mann-Kendall statistic = 75
critical = 92

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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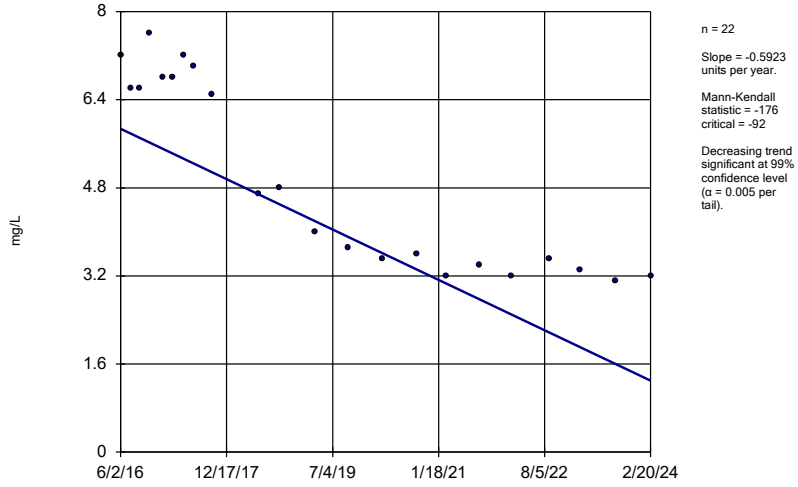
## Sen's Slope Estimator

YGWA-5D (bg)




n = 22

Slope = -0.5923 units per year.

Mann-Kendall statistic = -176
critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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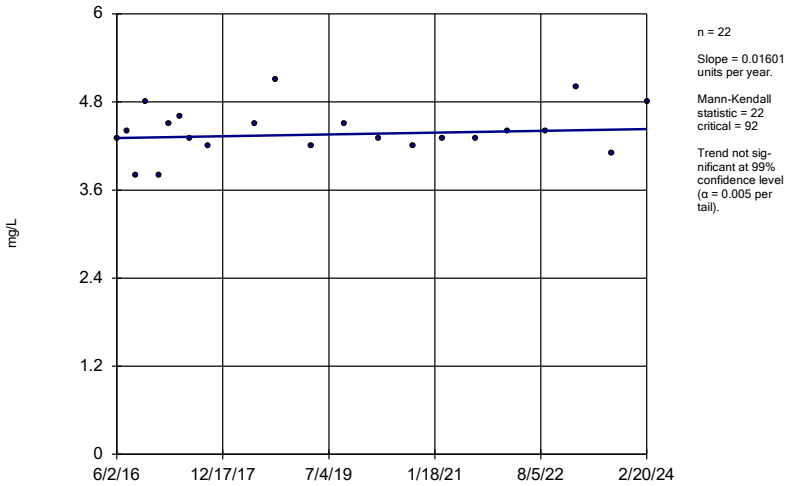
## Sen's Slope Estimator

YGWA-5I (bg)




n = 22

Slope = 0.01601 units per year.

Mann-Kendall statistic = 22
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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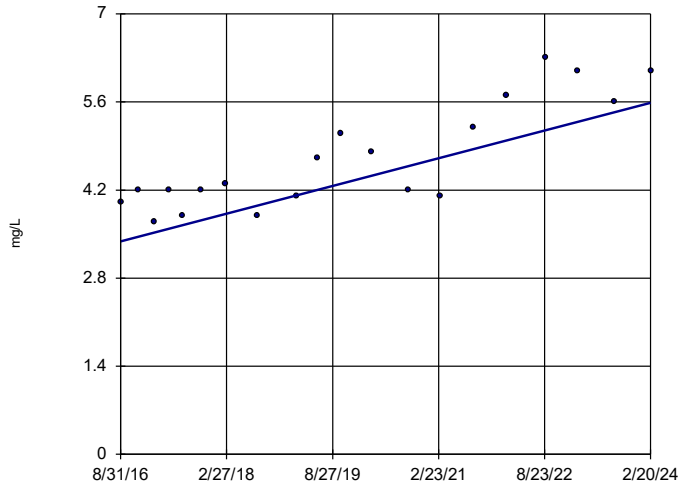
## Sen's Slope Estimator

GWA-2 (bg)




n = 20

Slope = 0.2946 units per year.

Mann-Kendall statistic = 117
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

FIGURE F.

# Upper Tolerance Limits Summary Table

Plant Yates  Data: Yates Ash Pond 2  Printed 5/2/2024, 10:03 AM

| Constituent | Upper Lim. | Lower Lim. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony (mg/L) | 0.0047 | n/a | 429 | n/a | n/a | 87.88 | n/a | n/a | NaN | NP Inter(NDs) |
| Arsenic (mg/L) | 0.005 | n/a | 477 | n/a | n/a | 75.26 | n/a | n/a | NaN | NP Inter(NDs) |
| Barium (mg/L) | 0.21 | n/a | 477 | n/a | n/a | 2.306 | n/a | n/a | NaN | NP Inter(normality) |
| Beryllium (mg/L) | 0.0011 | n/a | 461 | n/a | n/a | 80.04 | n/a | n/a | NaN | NP Inter(NDs) |
| Cadmium (mg/L) | 0.00063 | n/a | 461 | n/a | n/a | 95.01 | n/a | n/a | NaN | NP Inter(NDs) |
| Chromium (mg/L) | 0.0093 | n/a | 429 | n/a | n/a | 81.59 | n/a | n/a | NaN | NP Inter(NDs) |
| Cobalt (mg/L) | 0.035 | n/a | 471 | n/a | n/a | 68.79 | n/a | n/a | NaN | NP Inter(NDs) |
| Combined Radium 226 + 228 (pCi/L) | 6.92 | n/a | 456 | n/a | n/a | 0 | n/a | n/a | NaN | NP Inter(normality) |
| Fluoride (mg/L) | 0.68 | n/a | 476 | n/a | n/a | 63.45 | n/a | n/a | NaN | NP Inter(NDs) |
| Lead (mg/L) | 0.0013 | n/a | 431 | n/a | n/a | 87.24 | n/a | n/a | NaN | NP Inter(NDs) |
| Lithium (mg/L) | 0.03 | n/a | 456 | n/a | n/a | 27.19 | n/a | n/a | NaN | NP Inter(normality) |
| Mercury (mg/L) | 0.00064 | n/a | 385 | n/a | n/a | 89.35 | n/a | n/a | NaN | NP Inter(NDs) |
| Molybdenum (mg/L) | 0.03 | n/a | 420 | n/a | n/a | 61.19 | n/a | n/a | NaN | NP Inter(NDs) |
| Selenium (mg/L) | 0.005 | n/a | 459 | n/a | n/a | 92.81 | n/a | n/a | NaN | NP Inter(NDs) |
| Thallium (mg/L) | 0.001 | n/a | 395 | n/a | n/a | 97.47 | n/a | n/a | NaN | NP Inter(NDs) |

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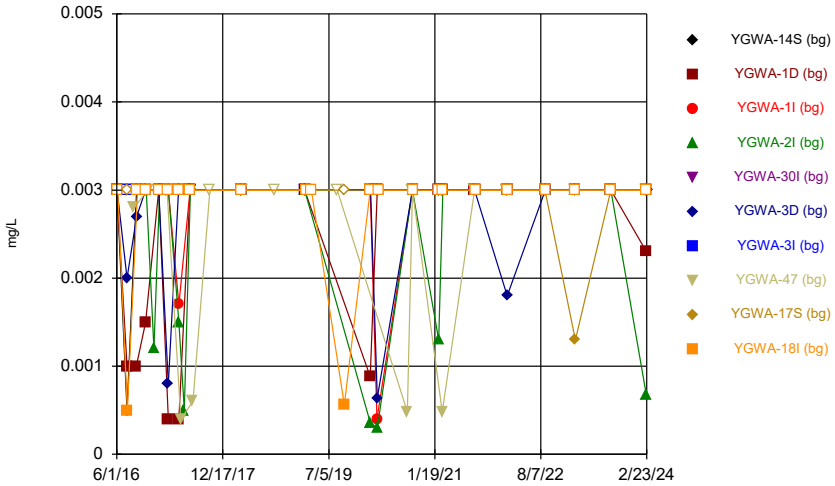
Hollow symbols indicate censored values.

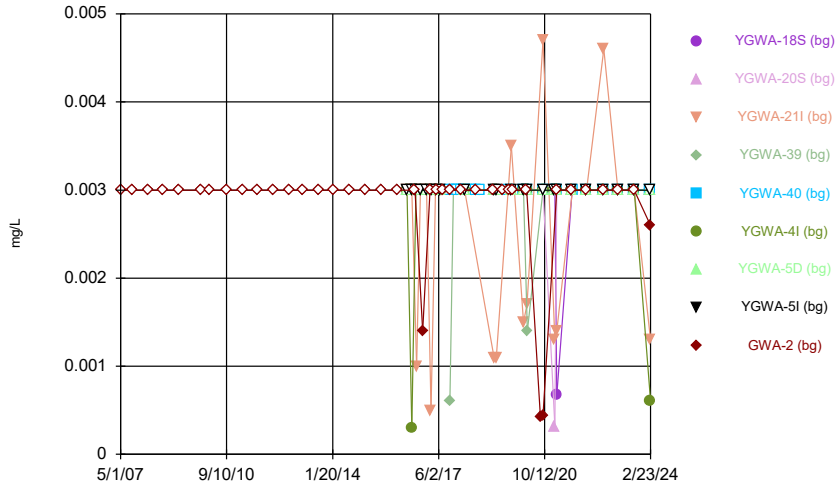
## Time Series




Constituent: Antimony Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

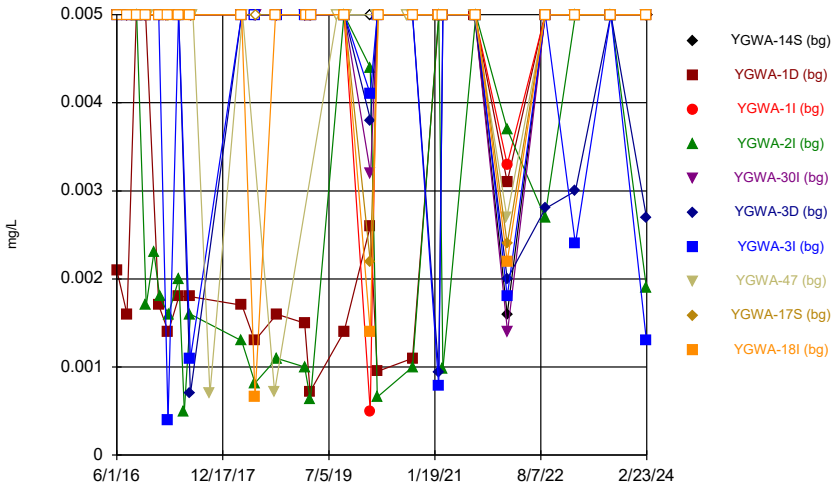
## Time Series




Constituent: Antimony Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

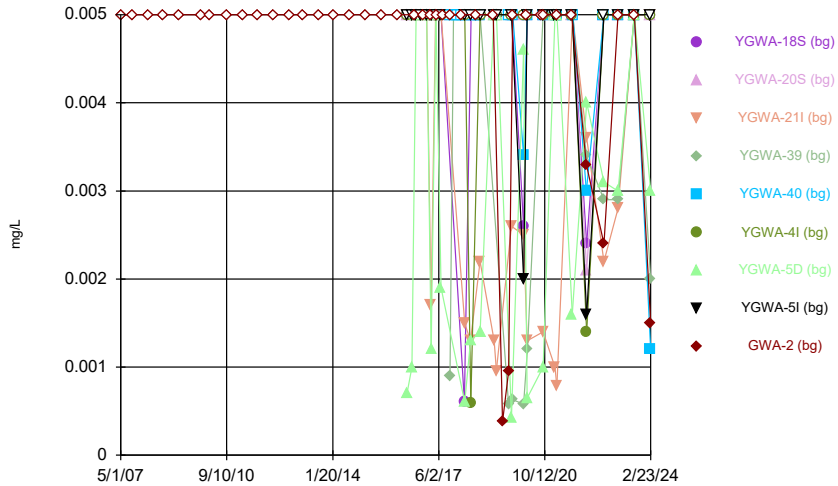
## Time Series




Constituent: Arsenic Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

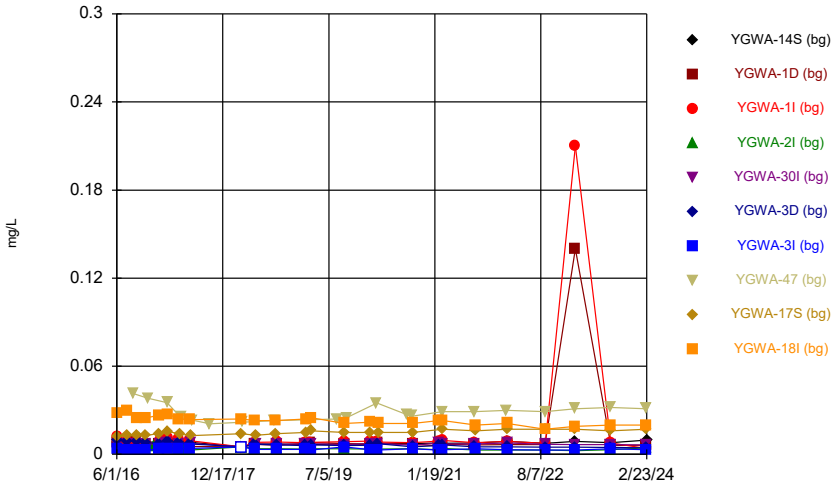
## Time Series




Constituent: Arsenic Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Barium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

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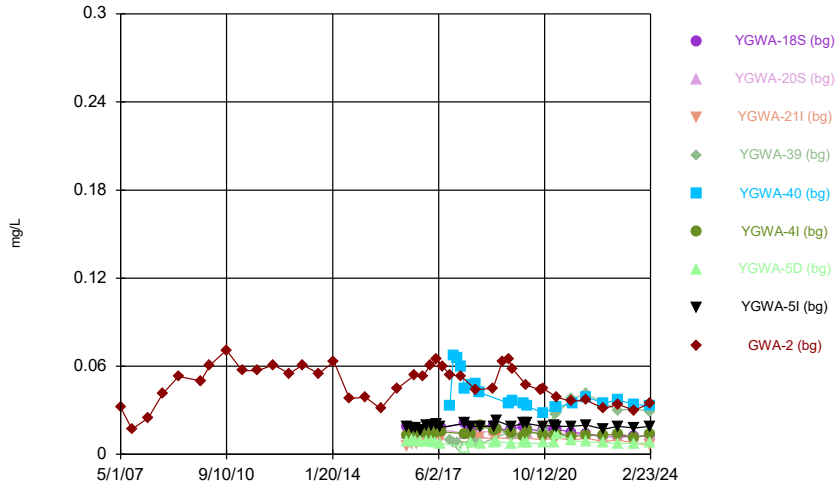
Hollow symbols indicate censored values.

## Time Series




Constituent: Barium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

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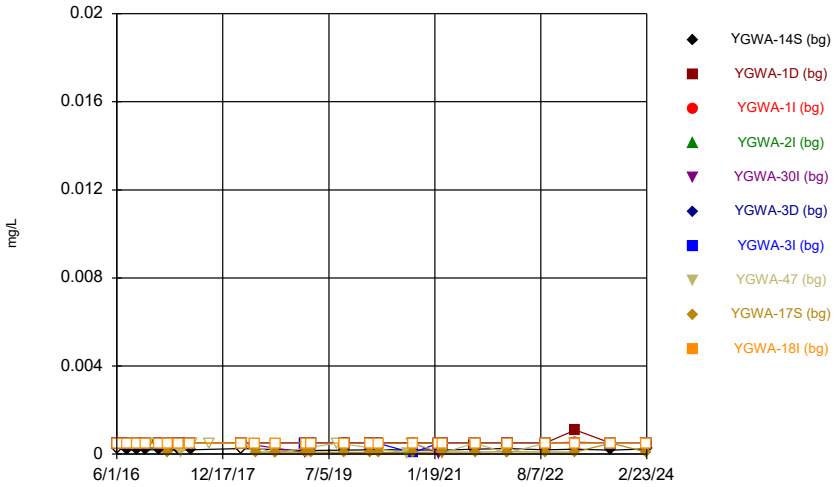
Hollow symbols indicate censored values.

## Time Series




Constituent: Beryllium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

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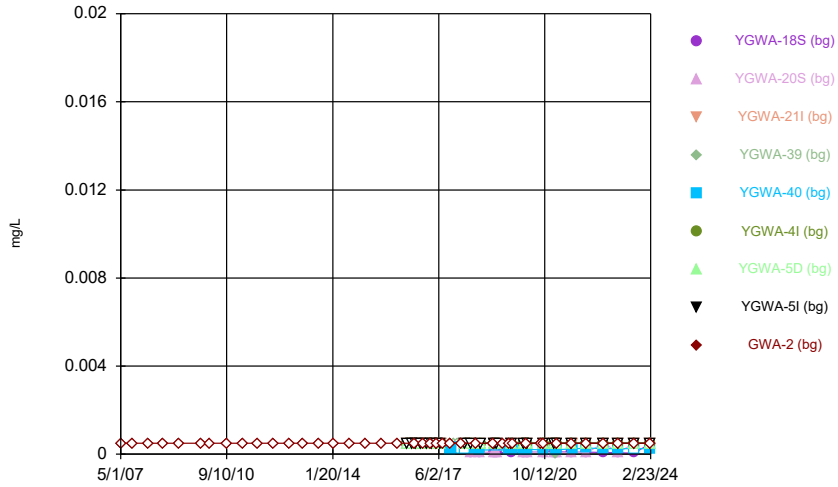
Hollow symbols indicate censored values.

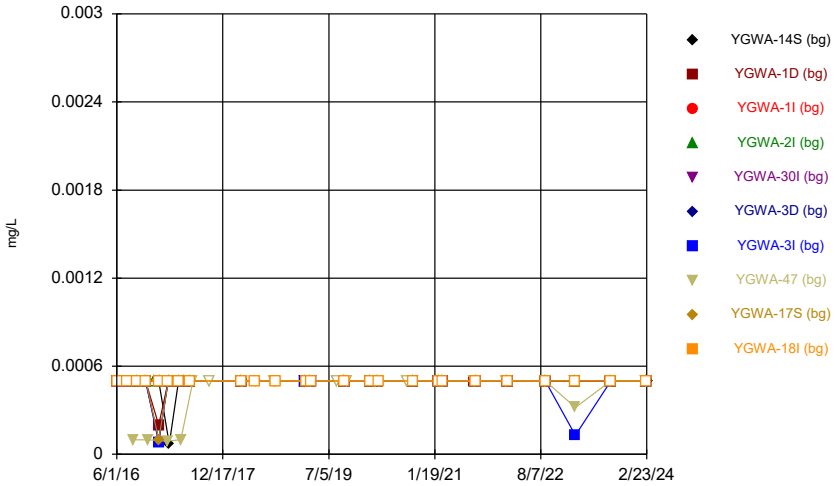
## Time Series




Constituent: Beryllium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Cadmium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

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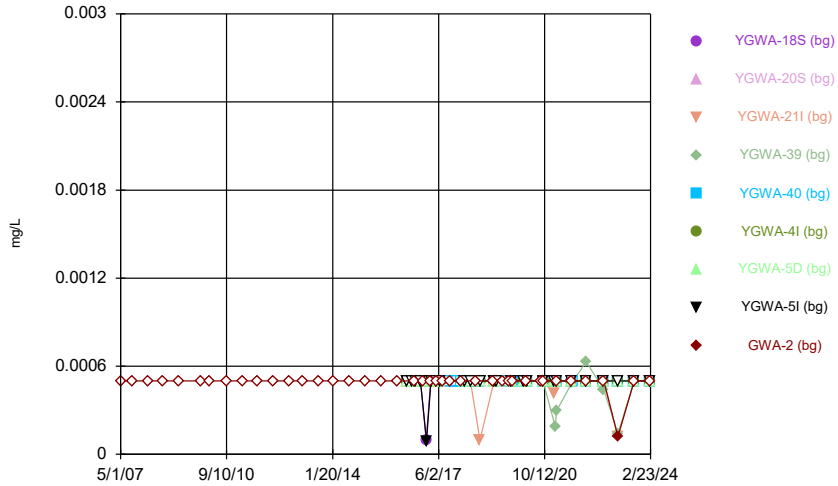
Hollow symbols indicate censored values.

## Time Series




Constituent: Cadmium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

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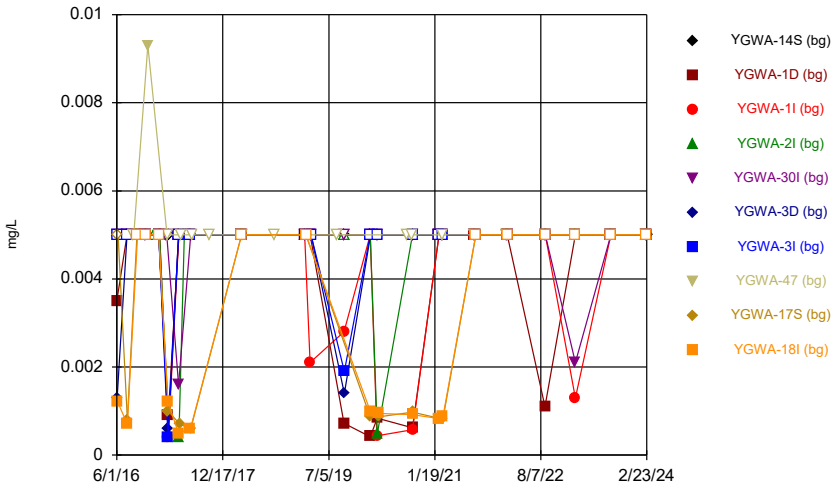
Hollow symbols indicate censored values.

## Time Series




Constituent: Chromium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

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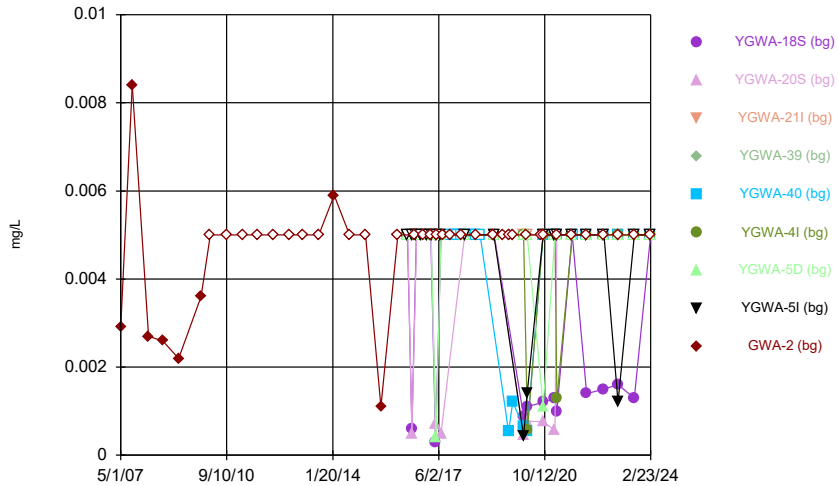
Hollow symbols indicate censored values.

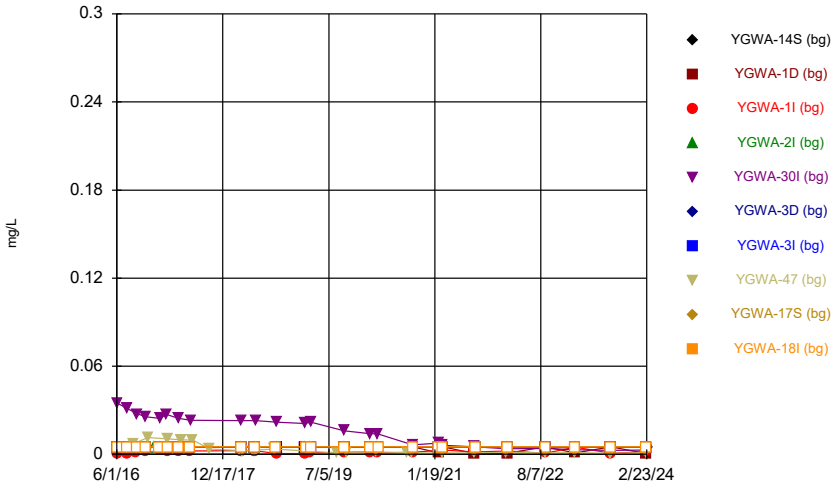
## Time Series




Constituent: Chromium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Cobalt Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

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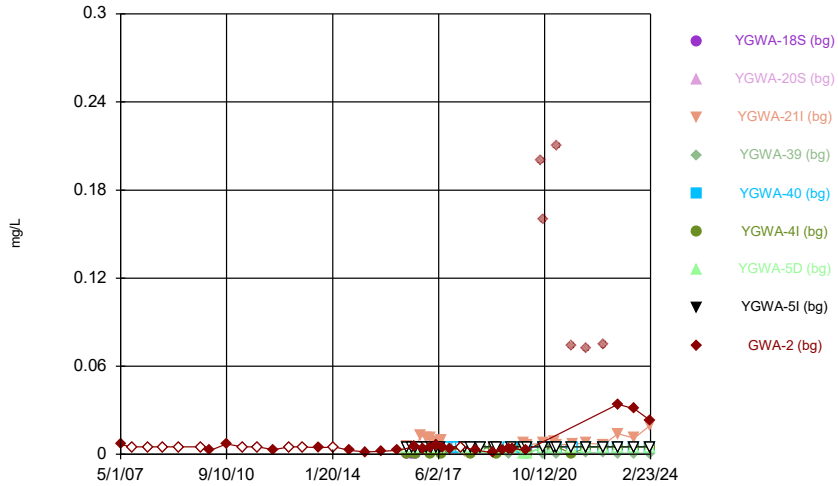
Hollow symbols indicate censored values.

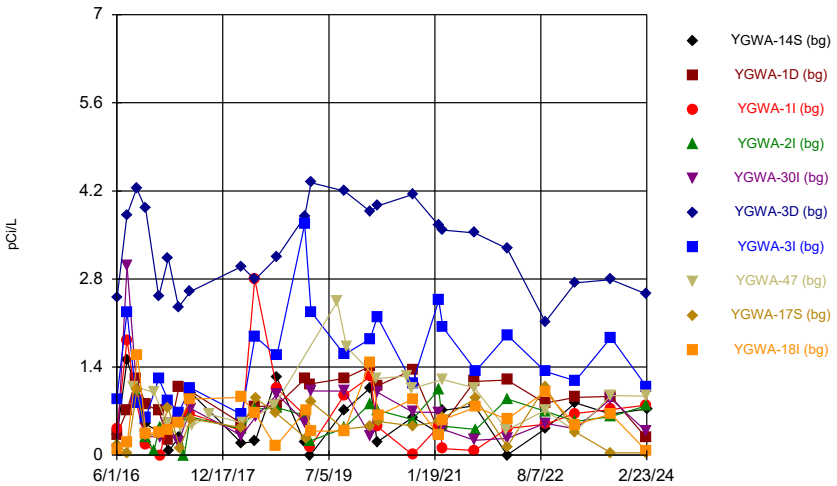
## Time Series




Constituent: Cobalt Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

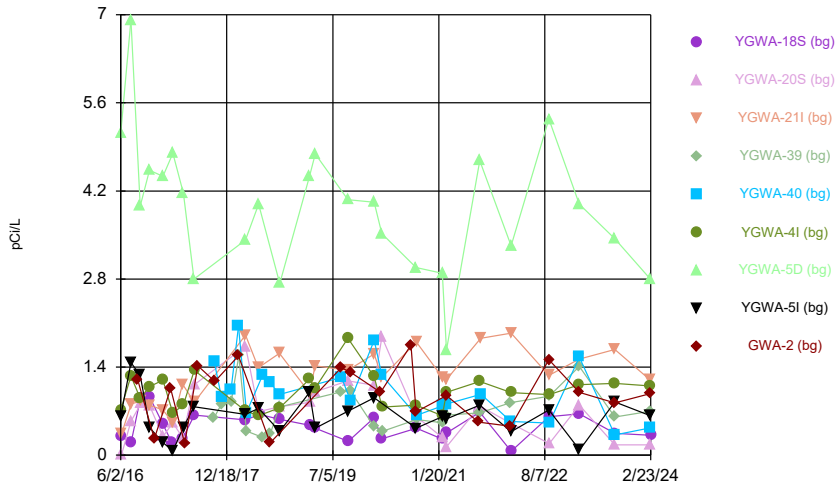
## Time Series




Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

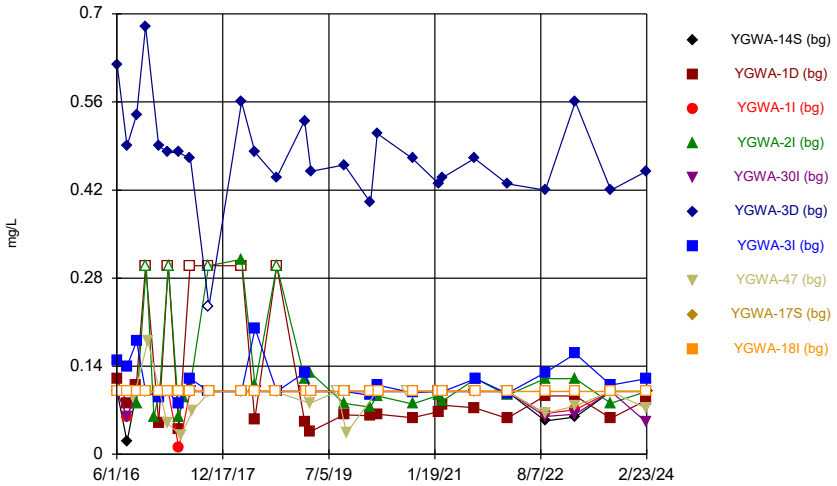
## Time Series




Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

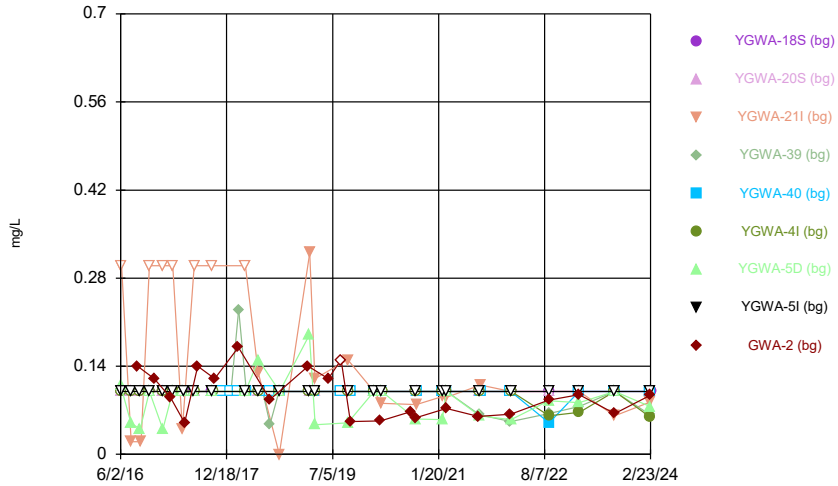
## Time Series




Constituent: Fluoride Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

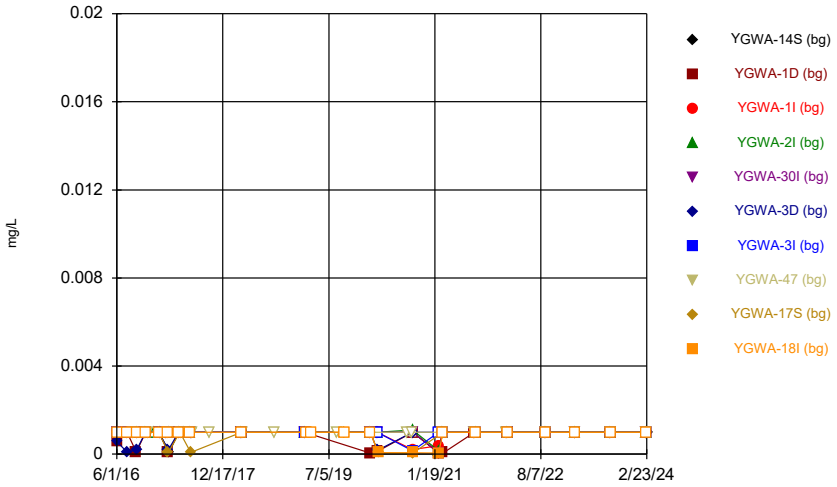
## Time Series




Constituent: Fluoride Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

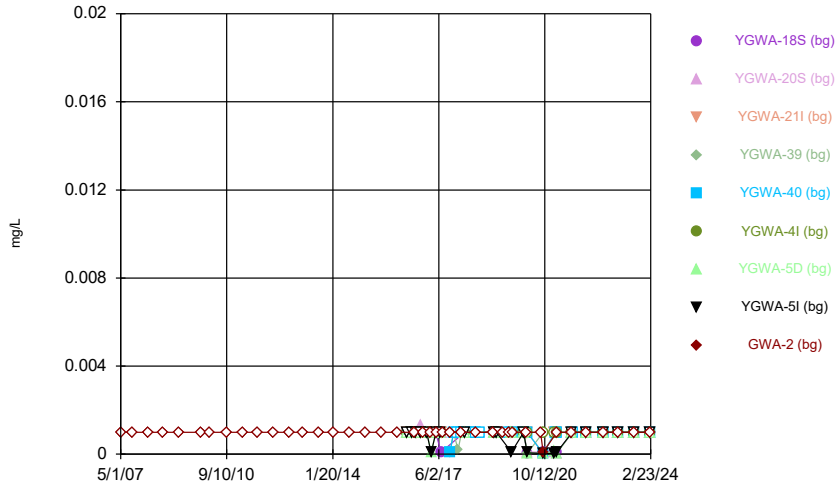
## Time Series




Constituent: Lead Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

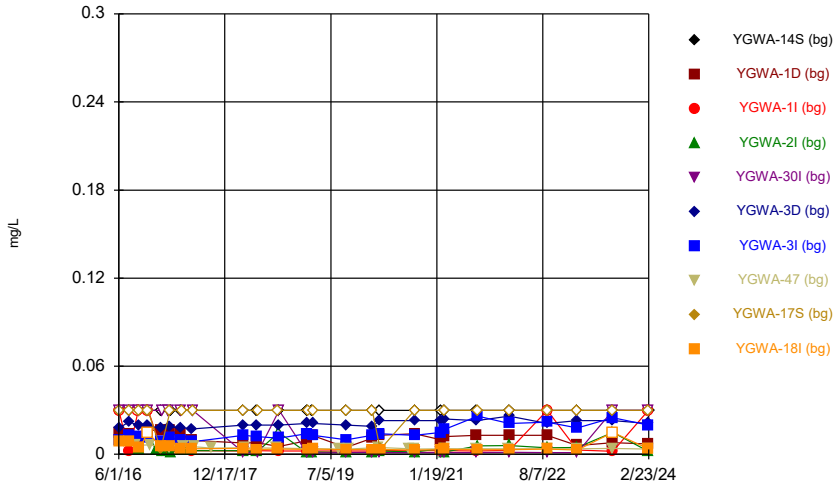
## Time Series




Constituent: Lead Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

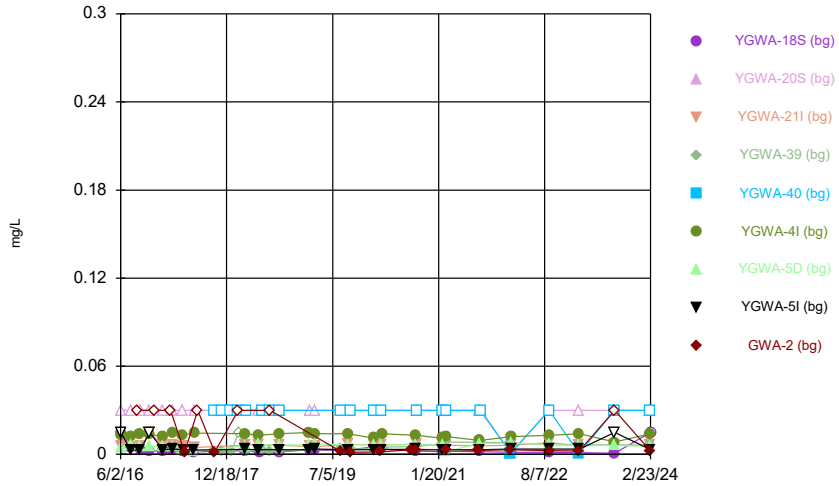
## Time Series




Constituent: Lithium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

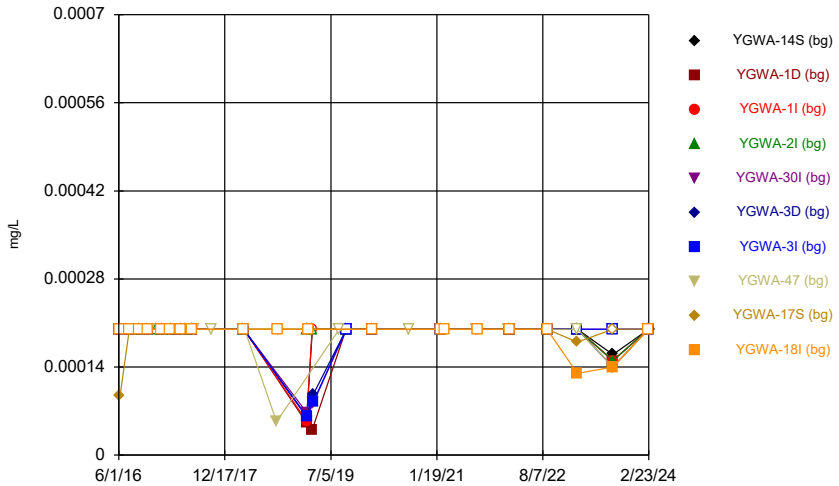
## Time Series




Constituent: Lithium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

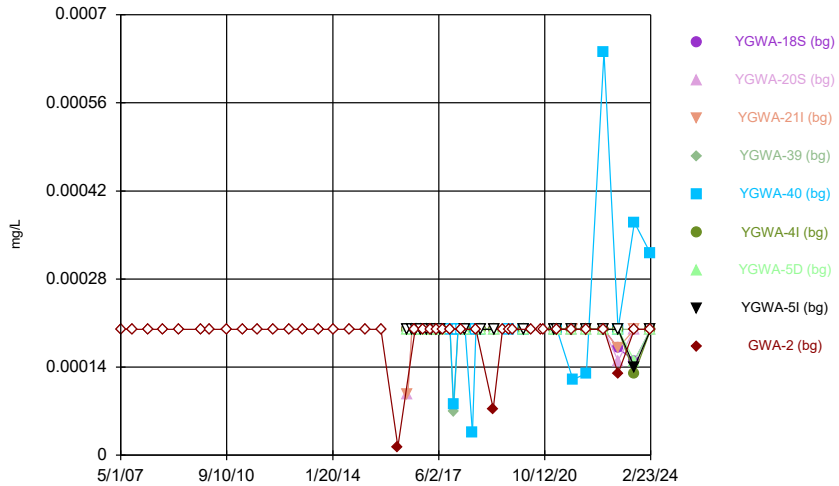
## Time Series




Constituent: Mercury Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

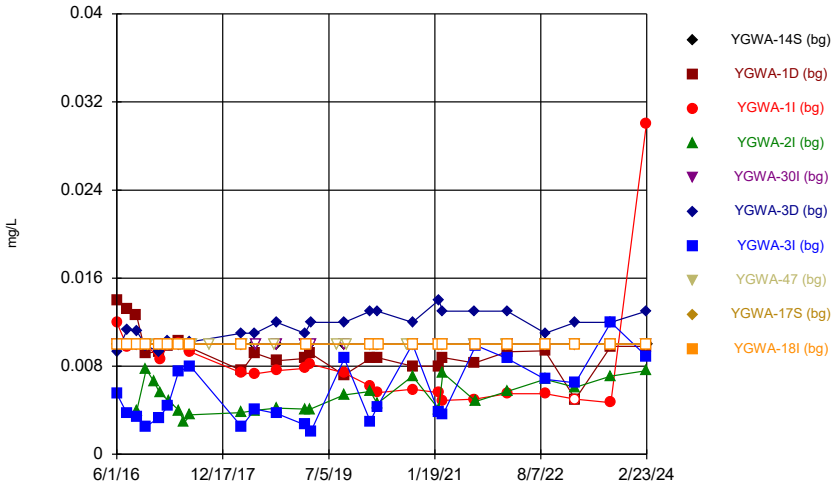
## Time Series




Constituent: Mercury Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

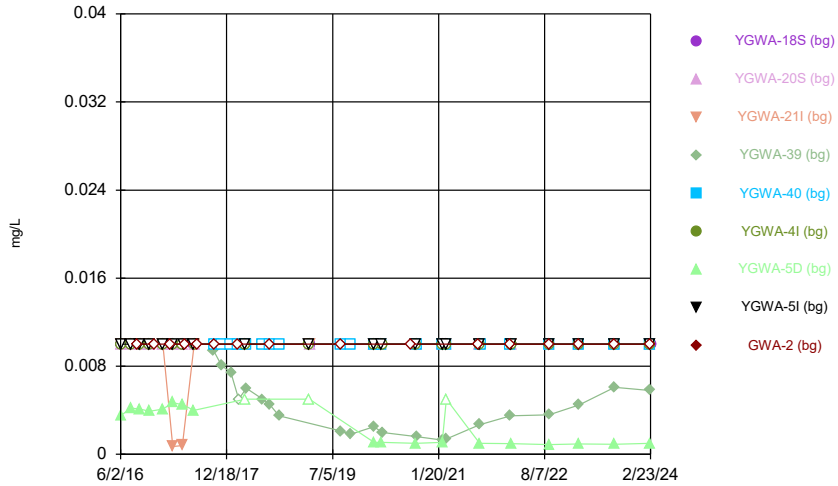
## Time Series




Constituent: Molybdenum Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

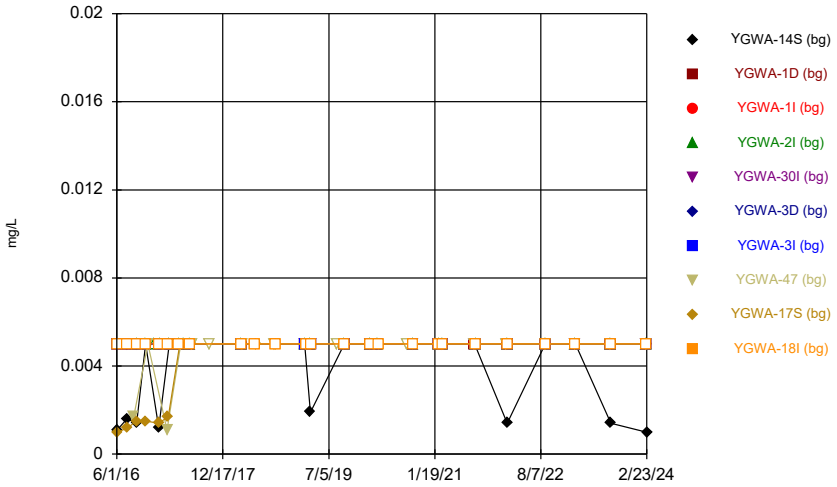
## Time Series




Constituent: Molybdenum Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

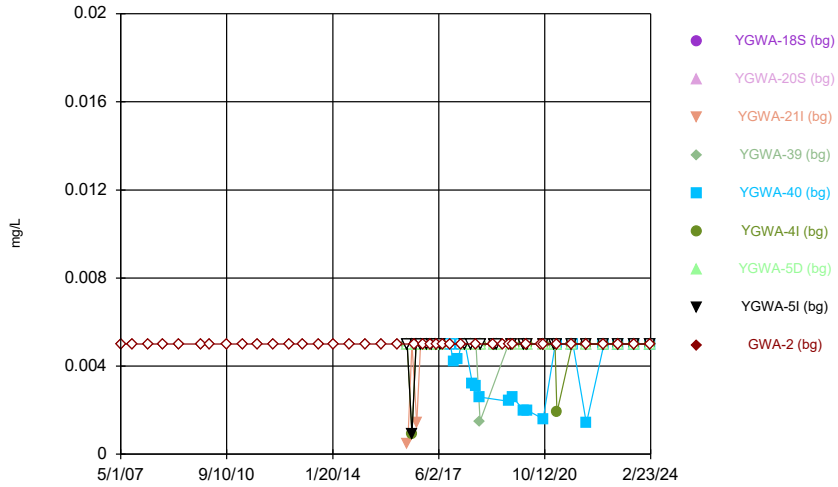
## Time Series




Constituent: Selenium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

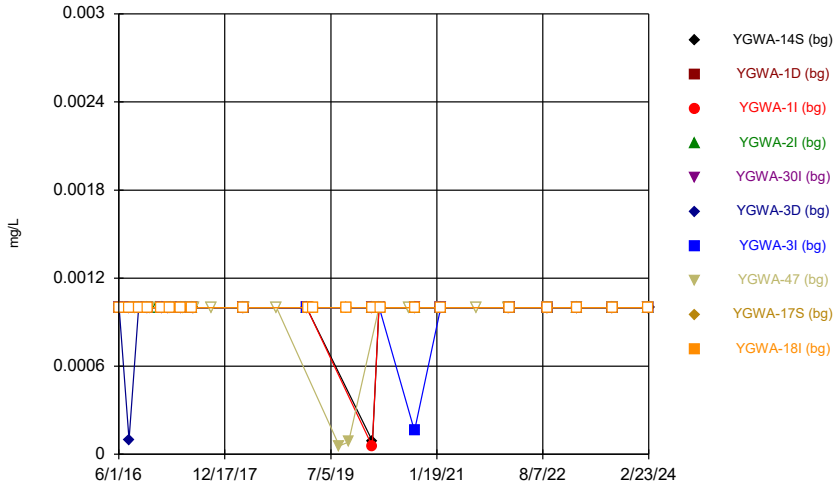
## Time Series




Constituent: Selenium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

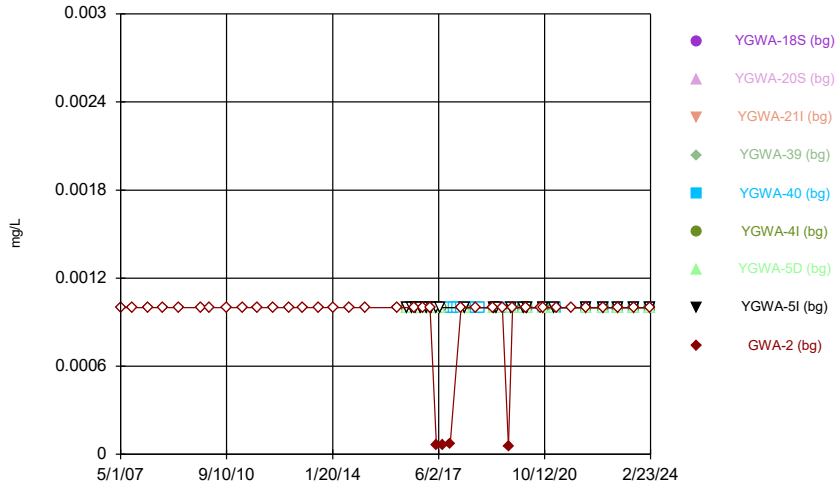
## Time Series




Constituent: Thallium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

## Time Series

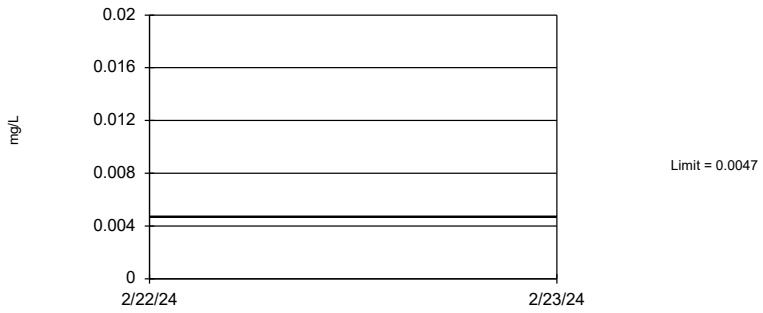



Constituent: Thallium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

## Tolerance Limit

Interwell Non-parametric




Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 429 background values. 87.88% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Antimony Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

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## Tolerance Limit

Interwell Non-parametric

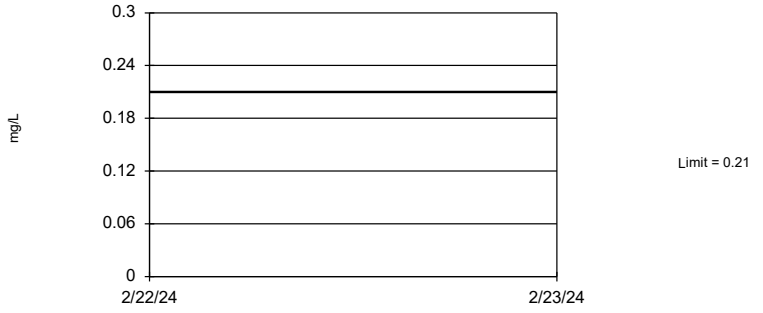
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 477 background values. 75.26% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Arsenic Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

## Tolerance Limit

Interwell Non-parametric



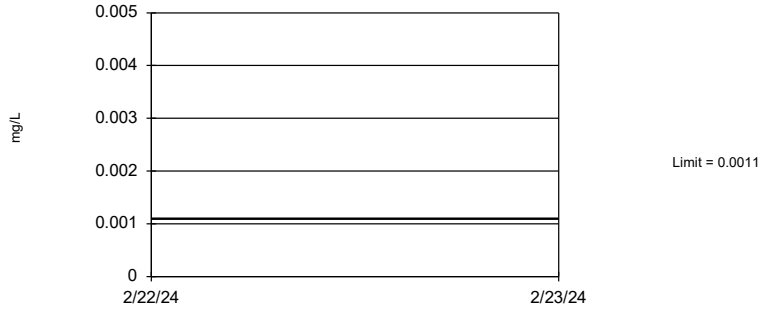

Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 477 background values. 2.306% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Barium Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

## Tolerance Limit

Interwell Non-parametric



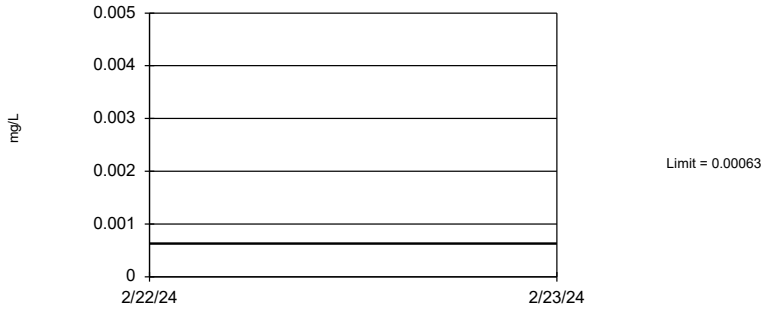

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 461 background values. 80.04% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Beryllium Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

## Tolerance Limit

Interwell Non-parametric



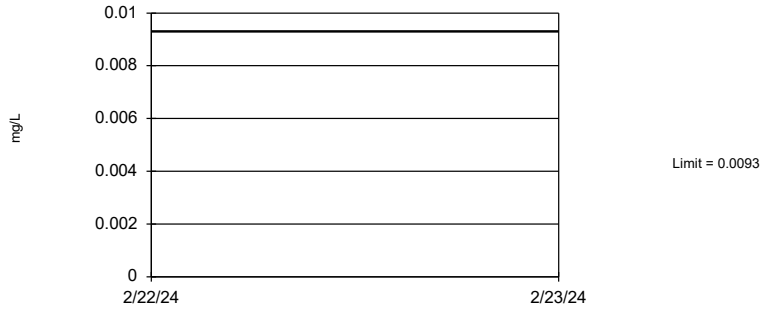

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 461 background values. 95.01% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cadmium Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

## Tolerance Limit

Interwell Non-parametric



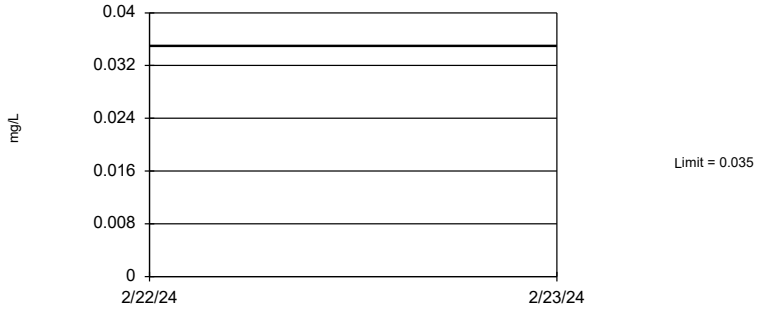

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 429 background values. 81.59% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Chromium Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

## Tolerance Limit

Interwell Non-parametric



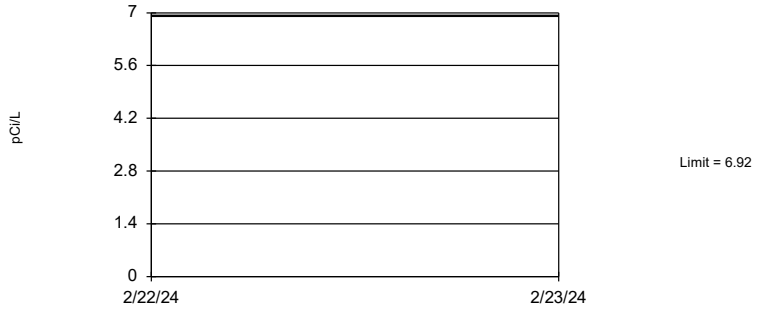

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 471 background values. 68.79% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cobalt Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

## Tolerance Limit

Interwell Non-parametric



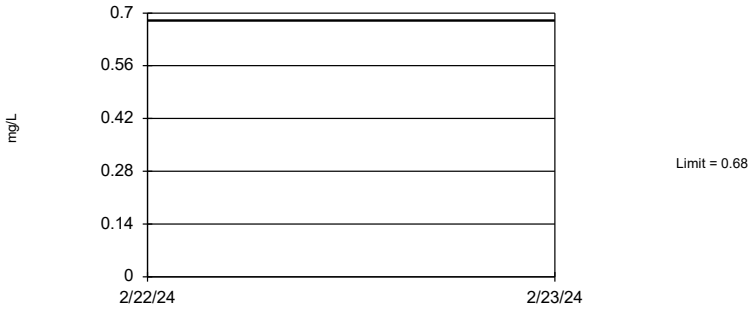

Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 456 background values. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

## Tolerance Limit

Interwell Non-parametric



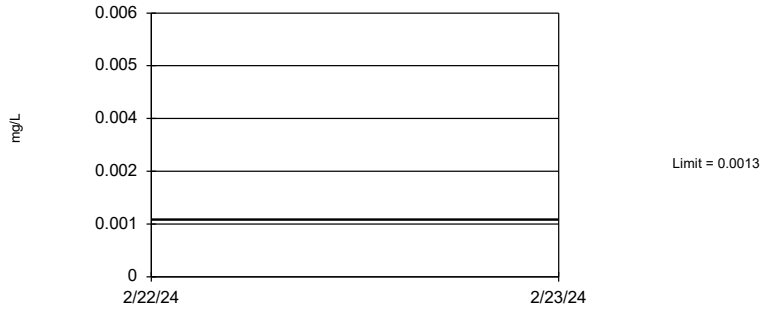

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 476 background values. 63.45% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Fluoride Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

## Tolerance Limit

Interwell Non-parametric



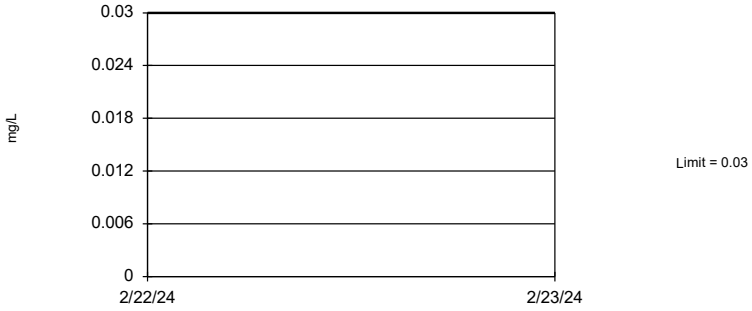

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 431 background values. 87.24% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Lead Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

## Tolerance Limit

Interwell Non-parametric



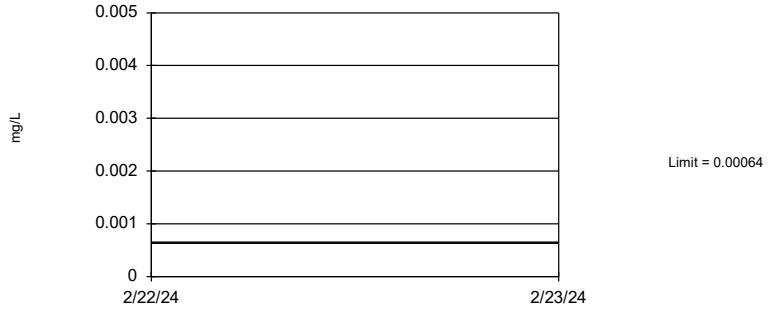

Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 456 background values. 27.19% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Lithium Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

## Tolerance Limit

Interwell Non-parametric



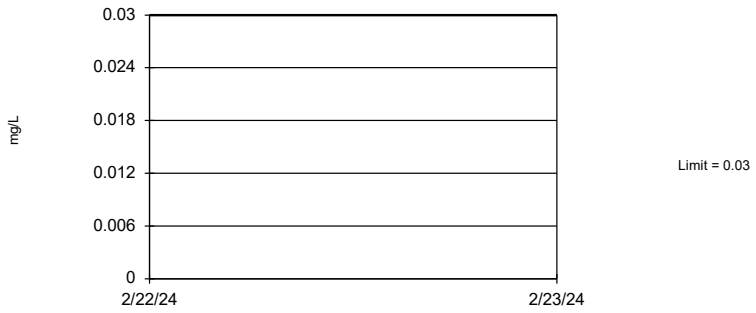

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 385 background values. 89.35% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Mercury Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

## Tolerance Limit

Interwell Non-parametric




Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 420 background values. 61.19% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Molybdenum Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

## Tolerance Limit

Interwell Non-parametric

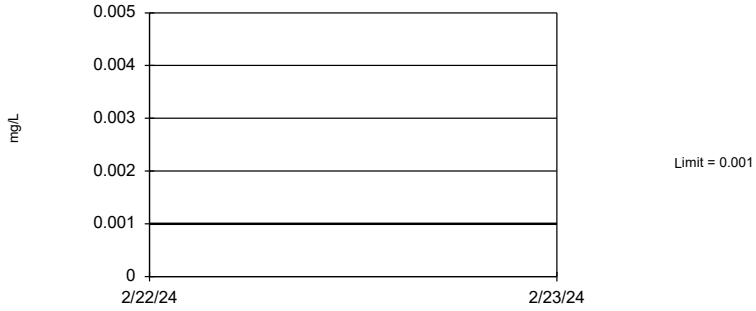
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 459 background values. 92.81% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Selenium Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

## Tolerance Limit

Interwell Non-parametric




Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 395 background values. 97.47% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Thallium Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

FIGURE G.

| YATES ASH POND 2 GWPS | | | | |
|---|---|---|---|---|
| **Constituent Name** | **MCL** | **CCR-Rule Specified** | **Background Limit** | **GWPS** |
| Antimony, Total (mg/L) | 0.006 | | 0.0047 | 0.006 |
| Arsenic, Total (mg/L) | 0.01 | | 0.005 | 0.01 |
| Barium, Total (mg/L) | 2 | | 0.21 | 2 |
| Beryllium, Total (mg/L) | 0.004 | | 0.0011 | 0.004 |
| Cadmium, Total (mg/L) | 0.005 | | 0.00063 | 0.005 |
| Chromium, Total (mg/L) | 0.1 | | 0.0093 | 0.1 |
| Cobalt, Total (mg/L) | | 0.006 | 0.035 | 0.035 |
| Combined Radium, Total (pCi/L) | 5 | | 6.92 | 6.92 |
| Fluoride, Total (mg/L) | 4 | | 0.68 | 4 |
| Lead, Total (mg/L) | | 0.015 | 0.0013 | 0.015 |
| Lithium, Total (mg/L) | | 0.04 | 0.03 | 0.04 |
| Mercury, Total (mg/L) | 0.002 | | 0.00064 | 0.002 |
| Molybdenum, Total (mg/L) | | 0.1 | 0.03 | 0.1 |
| Selenium, Total (mg/L) | 0.05 | | 0.005 | 0.05 |
| Thallium, Total (mg/L) | 0.002 | | 0.001 | 0.002 |

**Grey cell indicates Background Limit is higher than MCL or CCR Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

# FIGURE H.

# Confidence Intervals Summary Table - All Results (No Significant)

Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 10:09 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony (mg/L) | YGWC-26I | 0.003 | 0.001 | 0.006 | No | 21 | 0.002672 | 0.0008276 | 85.71 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | YGWC-26S | 0.003 | 0.0017 | 0.006 | No | 21 | 0.002871 | 0.0004064 | 90.48 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | YGWC-27I | 0.003 | 0.0014 | 0.006 | No | 21 | 0.002797 | 0.0006641 | 90.48 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | YGWC-27S | 0.003 | 0.0003 | 0.006 | No | 21 | 0.002871 | 0.0005892 | 95.24 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | YGWC-28I | 0.003 | 0.0023 | 0.006 | No | 21 | 0.002967 | 0.0001528 | 95.24 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | YGWC-29IB | 0.003 | 0.0013 | 0.006 | No | 21 | 0.002919 | 0.000371 | 95.24 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | YGWC-26I | 0.005 | 0.0028 | 0.01 | No | 25 | 0.004808 | 0.000667 | 92 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | YGWC-26S | 0.005 | 0.0032 | 0.01 | No | 25 | 0.004816 | 0.000653 | 92 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | YGWC-27I | 0.005 | 0.0009 | 0.01 | No | 25 | 0.003578 | 0.002042 | 64 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | YGWC-27S | 0.005 | 0.0019 | 0.01 | No | 25 | 0.004876 | 0.00062 | 96 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | YGWC-28I | 0.005 | 0.0021 | 0.01 | No | 25 | 0.004884 | 0.00058 | 96 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | YGWC-28S | 0.005 | 0.00075 | 0.01 | No | 25 | 0.003588 | 0.002038 | 64 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | YGWC-29IB | 0.005 | 0.0033 | 0.01 | No | 25 | 0.004932 | 0.00034 | 96 | None | No | 0.01 | NP (NDs) |
| Barium (mg/L) | YGWC-26I | 0.06523 | 0.06157 | 2 | No | 25 | 0.0634 | 0.003673 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | YGWC-26S | 0.0283 | 0.02609 | 2 | No | 25 | 0.0272 | 0.002211 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | YGWC-27I | 0.07395 | 0.0664 | 2 | No | 25 | 0.07018 | 0.007568 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | YGWC-27S | 0.1001 | 0.08167 | 2 | No | 25 | 0.08901 | 0.02093 | 0 | None | x^2 | 0.01 | Param. |
| Barium (mg/L) | YGWC-28I | 0.08777 | 0.0788 | 2 | No | 25 | 0.08328 | 0.009001 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | YGWC-28S | 0.2199 | 0.1984 | 2 | No | 25 | 0.2052 | 0.03448 | 0 | None | x^3 | 0.01 | Param. |
| Barium (mg/L) | YGWC-29IB | 0.0781 | 0.057 | 2 | No | 25 | 0.07435 | 0.03089 | 0 | None | No | 0.01 | NP (normality) |
| Beryllium (mg/L) | YGWC-26S | 0.0001278 | 0.00009104 | 0.004 | No | 23 | 0.0002001 | 0.0001474 | 17.39 | Kaplan-Meier | ln(x) | 0.01 | Param. |
| Beryllium (mg/L) | YGWC-27I | 0.0002007 | 0.0001403 | 0.004 | No | 23 | 0.0001705 | 0.00005775 | 13.04 | None | No | 0.01 | Param. |
| Beryllium (mg/L) | YGWC-27S | 0.0005 | 0.00011 | 0.004 | No | 23 | 0.0004642 | 0.0001189 | 91.3 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | YGWC-28I | 0.0005 | 0.0001 | 0.005 | No | 23 | 0.0002774 | 0.0001781 | 21.74 | None | No | 0.01 | NP (normality) |
| Cadmium (mg/L) | YGWC-28S | 0.0005 | 0.00048 | 0.005 | No | 23 | 0.0004991 | 0.00000417 | 95.65 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | YGWC-29IB | 0.00028 | 0.00018 | 0.005 | No | 23 | 0.0003396 | 0.0003656 | 13.04 | None | No | 0.01 | NP (normality) |
| Chromium (mg/L) | YGWC-26I | 0.005 | 0.0008 | 0.1 | No | 23 | 0.003671 | 0.002046 | 65.22 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | YGWC-26S | 0.005 | 0.0012 | 0.1 | No | 23 | 0.003 | 0.00182 | 34.78 | None | No | 0.01 | NP (normality) |
| Chromium (mg/L) | YGWC-27I | 0.012 | 0.005 | 0.1 | No | 23 | 0.005304 | 0.00146 | 95.65 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | YGWC-27S | 0.005 | 0.0041 | 0.1 | No | 23 | 0.004715 | 0.002727 | 73.91 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | YGWC-28I | 0.005 | 0.0005 | 0.1 | No | 23 | 0.004409 | 0.00156 | 86.96 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | YGWC-28S | 0.005 | 0.0034 | 0.1 | No | 23 | 0.004347 | 0.001548 | 82.61 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | YGWC-29IB | 0.005 | 0.0005 | 0.1 | No | 23 | 0.004804 | 0.0009383 | 95.65 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | YGWC-26S | 0.002433 | 0.001813 | 0.035 | No | 25 | 0.002123 | 0.0006217 | 4 | None | No | 0.01 | Param. |
| Cobalt (mg/L) | YGWC-27I | 0.01376 | 0.004019 | 0.035 | No | 25 | 0.01616 | 0.02373 | 0 | None | ln(x) | 0.01 | Param. |
| Cobalt (mg/L) | YGWC-27S | 0.002404 | 0.002041 | 0.035 | No | 25 | 0.002196 | 0.0003953 | 4 | None | x^2 | 0.01 | Param. |
| Cobalt (mg/L) | YGWC-28I | 0.005 | 0.00042 | 0.035 | No | 25 | 0.004817 | 0.000916 | 96 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | YGWC-28S | 0.0011 | 0.00085 | 0.035 | No | 25 | 0.001077 | 0.0004546 | 8 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | YGWC-29IB | 0.005 | 0.0027 | 0.035 | No | 25 | 0.004126 | 0.001906 | 68 | None | No | 0.01 | NP (NDs) |
| Combined Radium 226 + 228 (pCi/L) | YGWC-26I | 0.9944 | 0.5008 | 6.92 | No | 24 | 0.7476 | 0.4837 | 4.167 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-26S | 0.8032 | 0.5276 | 6.92 | No | 25 | 0.6654 | 0.2765 | 4 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-27I | 3.746 | 2.625 | 6.92 | No | 25 | 3.186 | 1.125 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-27S | 0.9619 | 0.6006 | 6.92 | No | 25 | 0.7813 | 0.3624 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-28I | 0.7995 | 0.4593 | 6.92 | No | 25 | 0.6294 | 0.3413 | 4 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-28S | 0.8999 | 0.543 | 6.92 | No | 25 | 0.7214 | 0.358 | 4 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | YGWC-29IB | 1.065 | 0.6817 | 6.92 | No | 25 | 0.8731 | 0.384 | 4 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | YGWC-26I | 0.1 | 0.064 | 4 | No | 26 | 0.08269 | 0.01978 | 38.46 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | YGWC-26S | 0.16 | 0.076 | 4 | No | 26 | 0.1219 | 0.08942 | 65.38 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | YGWC-27I | 0.3 | 0.081 | 4 | No | 26 | 0.1829 | 0.1128 | 46.15 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | YGWC-27S | 0.1594 | 0.09053 | 4 | No | 26 | 0.1505 | 0.09453 | 15.38 | Kaplan-Meier | ln(x) | 0.01 | Param. |
| Fluoride (mg/L) | YGWC-28I | 0.29 | 0.078 | 4 | No | 26 | 0.159 | 0.1012 | 19.23 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | YGWC-28S | 0.2349 | 0.1581 | 4 | No | 26 | 0.2023 | 0.08725 | 7.692 | None | sqrt(x) | 0.01 | Param. |
| Fluoride (mg/L) | YGWC-29IB | 0.17 | 0.059 | 4 | No | 26 | 0.1384 | 0.1037 | 26.92 | None | No | 0.01 | NP (normality) |
| Lead (mg/L) | YGWC-26I | 0.001 | 0.000059 | 0.015 | No | 21 | 0.00091 | 0.0002843 | 90.48 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | YGWC-26S | 0.001 | 0.0001 | 0.015 | No | 21 | 0.0007786 | 0.000406 | 76.19 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | YGWC-27S | 0.001 | 0.00072 | 0.015 | No | 21 | 0.0008284 | 0.0003329 | 71.43 | None | No | 0.01 | NP (NDs) |

# Confidence Intervals Summary Table - All Results (No Significant)



Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 10:09 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead (mg/L) | YGWC-28S | 0.001 | 0.000075 | 0.015 | No | 21 | 0.0007769 | 0.0004091 | 76.19 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | YGWC-29IB | 0.001 | 0.00016 | 0.015 | No | 21 | 0.0008724 | 0.0003206 | 85.71 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | YGWC-26I | 0.007374 | 0.006746 | 0.04 | No | 25 | 0.00706 | 0.0006305 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | YGWC-27I | 0.009528 | 0.007614 | 0.04 | No | 25 | 0.008648 | 0.002002 | 0 | None | sqrt(x) | 0.01 | Param. |
| Lithium (mg/L) | YGWC-27S | 0.03 | 0.0013 | 0.04 | No | 25 | 0.02768 | 0.008015 | 92 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | YGWC-28I | 0.007012 | 0.006532 | 0.04 | No | 25 | 0.006772 | 0.0004818 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | YGWC-28S | 0.03 | 0.0053 | 0.04 | No | 25 | 0.02901 | 0.00494 | 96 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | YGWC-29IB | 0.0066 | 0.0053 | 0.04 | No | 25 | 0.00678 | 0.002629 | 4 | None | No | 0.01 | NP (normality) |
| Mercury (mg/L) | YGWC-26I | 0.0002 | 0.000051 | 0.002 | No | 19 | 0.0001843 | 0.00004698 | 89.47 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | YGWC-26S | 0.0002 | 0.000066 | 0.002 | No | 19 | 0.000185 | 0.00004502 | 89.47 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | YGWC-27I | 0.0002 | 0.000054 | 0.002 | No | 19 | 0.0001842 | 0.00004748 | 89.47 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | YGWC-27S | 0.0002 | 0.00019 | 0.002 | No | 19 | 0.0001832 | 0.00004876 | 84.21 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | YGWC-28I | 0.0002 | 0.000048 | 0.002 | No | 19 | 0.000192 | 0.00003487 | 94.74 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | YGWC-28S | 0.0002 | 0.000052 | 0.002 | No | 19 | 0.0001922 | 0.00003395 | 94.74 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | YGWC-29IB | 0.0002 | 0.000047 | 0.002 | No | 19 | 0.0001835 | 0.00004952 | 89.47 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | YGWC-27I | 0.01 | 0.0015 | 0.1 | No | 25 | 0.00502 | 0.004187 | 40 | None | No | 0.01 | NP (normality) |
| Molybdenum (mg/L) | YGWC-28I | 0.01 | 0.0012 | 0.1 | No | 25 | 0.004408 | 0.004283 | 36 | None | No | 0.01 | NP (normality) |
| Molybdenum (mg/L) | YGWC-28S | 0.01 | 0.00082 | 0.1 | No | 25 | 0.007039 | 0.004405 | 68 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | YGWC-29IB | 0.01 | 0.00099 | 0.1 | No | 25 | 0.009273 | 0.002517 | 92 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | YGWC-26I | 0.003234 | 0.002153 | 0.05 | No | 23 | 0.002843 | 0.001158 | 8.696 | None | ln(x) | 0.01 | Param. |
| Selenium (mg/L) | YGWC-26S | 0.005 | 0.0014 | 0.05 | No | 23 | 0.004317 | 0.001533 | 82.61 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | YGWC-28I | 0.005 | 0.0012 | 0.05 | No | 23 | 0.004835 | 0.0007924 | 95.65 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | YGWC-28S | 0.005 | 0.001 | 0.05 | No | 23 | 0.004826 | 0.0008341 | 95.65 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | YGWC-26S | 0.001 | 0.000057 | 0.002 | No | 19 | 0.0009006 | 0.0002976 | 89.47 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | YGWC-27S | 0.001 | 0.00011 | 0.002 | No | 19 | 0.0007174 | 0.0004274 | 68.42 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | YGWC-29IB | 0.001 | 0.00021 | 0.002 | No | 19 | 0.0009584 | 0.0001812 | 94.74 | None | No | 0.01 | NP (NDs) |

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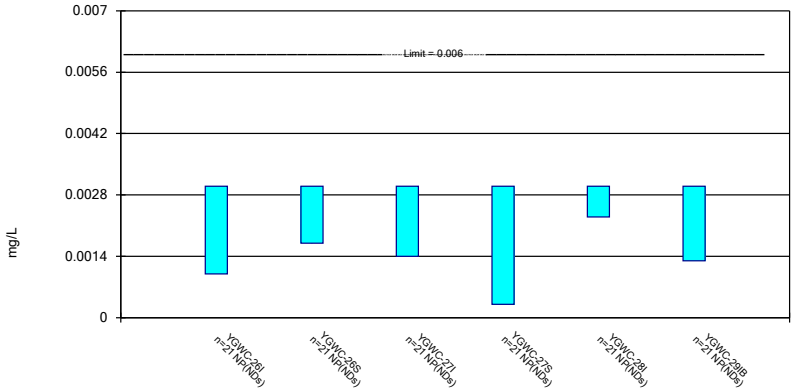
## Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.




Constituent: Antimony Analysis Run 5/2/2024 10:07 AM View: Appendix IV
Plant Yates Data: Yates Ash Pond 2

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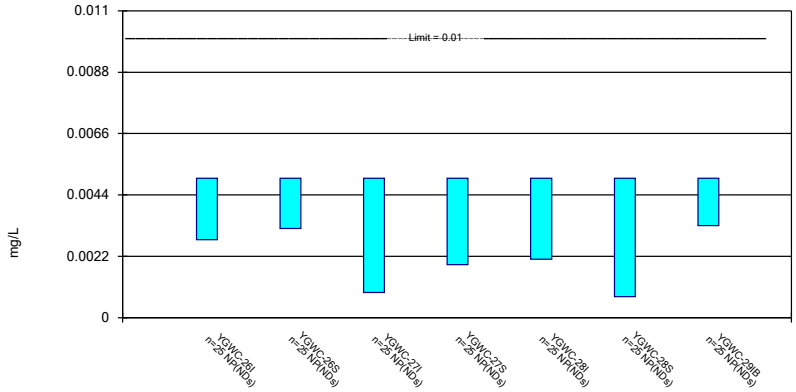
## Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.




Constituent: Arsenic Analysis Run 5/2/2024 10:07 AM View: Appendix IV
Plant Yates Data: Yates Ash Pond 2

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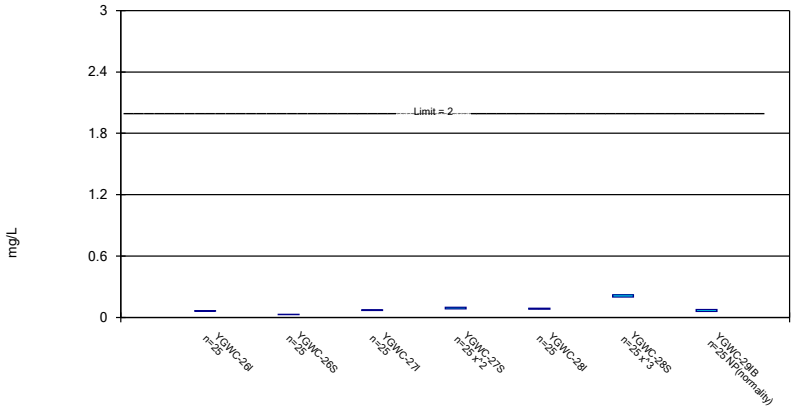
## Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.




Constituent: Barium Analysis Run 5/2/2024 10:07 AM View: Appendix IV
Plant Yates Data: Yates Ash Pond 2

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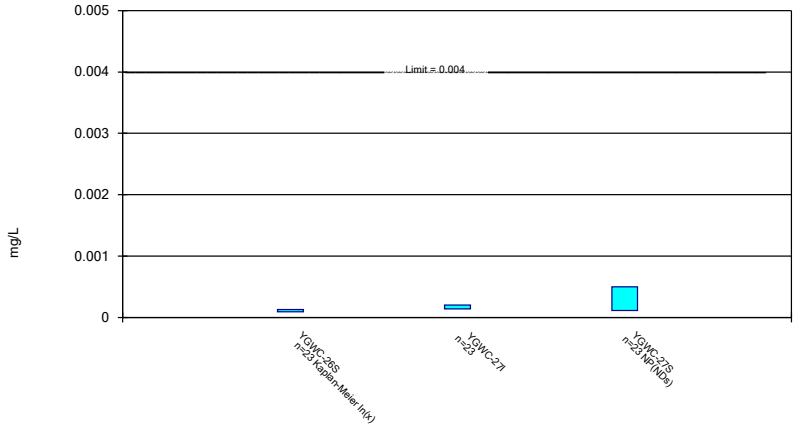
## Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.




Constituent: Beryllium Analysis Run 5/2/2024 10:07 AM View: Appendix IV
Plant Yates Data: Yates Ash Pond 2

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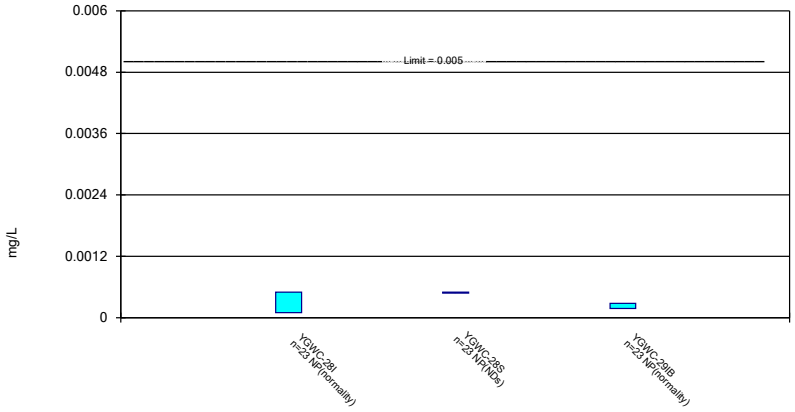
## Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.




Constituent: Cadmium Analysis Run 5/2/2024 10:07 AM View: Appendix IV
Plant Yates Data: Yates Ash Pond 2

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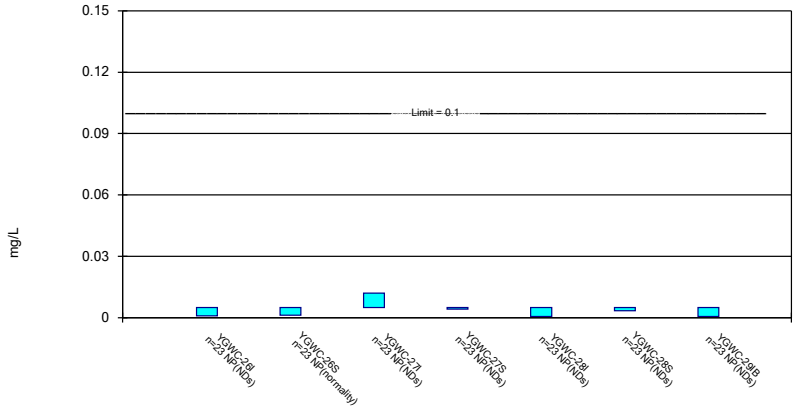
## Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.




Constituent: Chromium Analysis Run 5/2/2024 10:07 AM View: Appendix IV
Plant Yates Data: Yates Ash Pond 2

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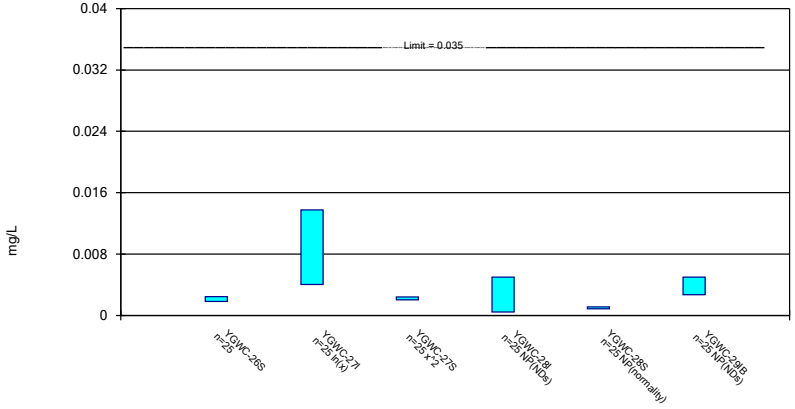
## Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.




Constituent: Cobalt Analysis Run 5/2/2024 10:07 AM View: Appendix IV
Plant Yates Data: Yates Ash Pond 2

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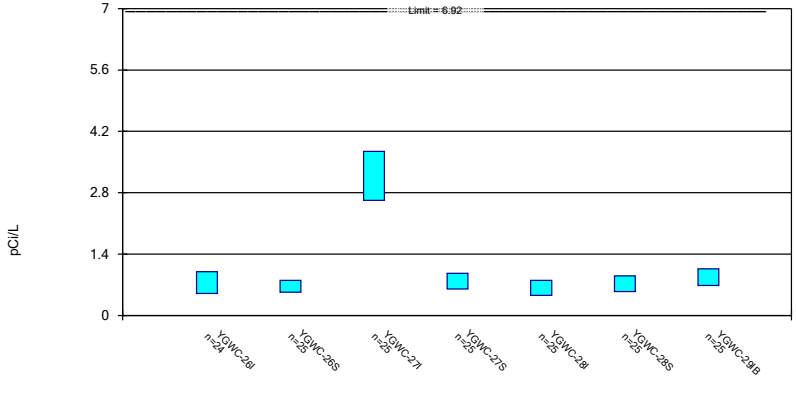
## Parametric Confidence Interval

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 5/2/2024 10:07 AM View: Appendix IV
Plant Yates Data: Yates Ash Pond 2

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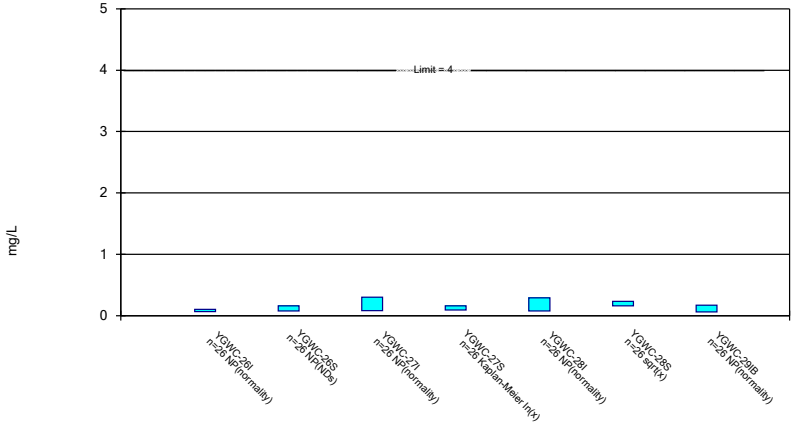
## Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.




Constituent: Fluoride Analysis Run 5/2/2024 10:07 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

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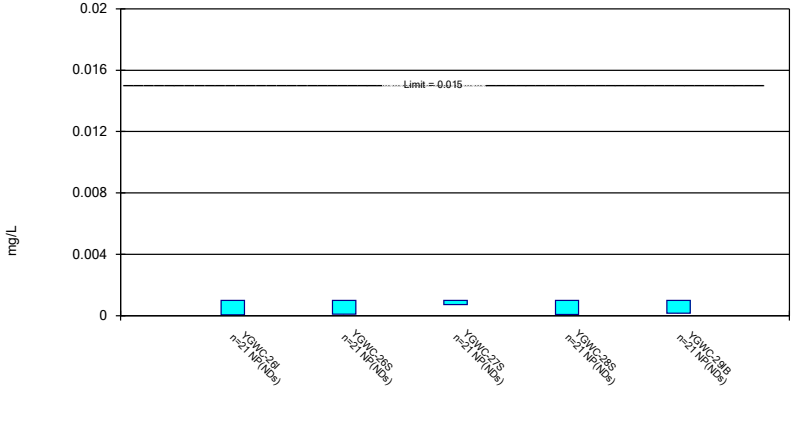
## Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.




Constituent: Lead Analysis Run 5/2/2024 10:07 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

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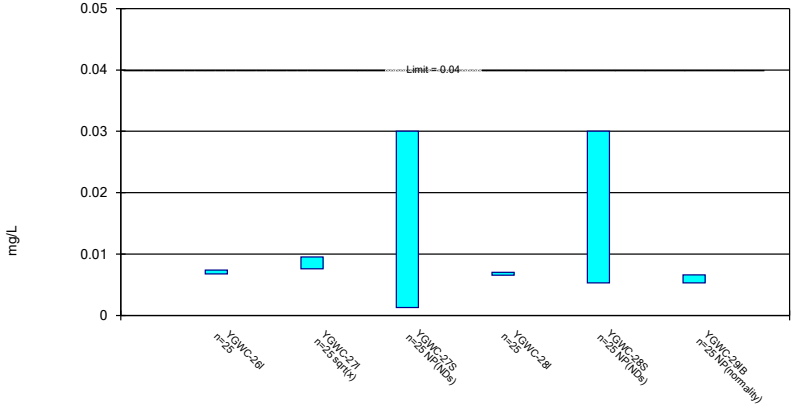
## Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.




Constituent: Lithium Analysis Run 5/2/2024 10:07 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

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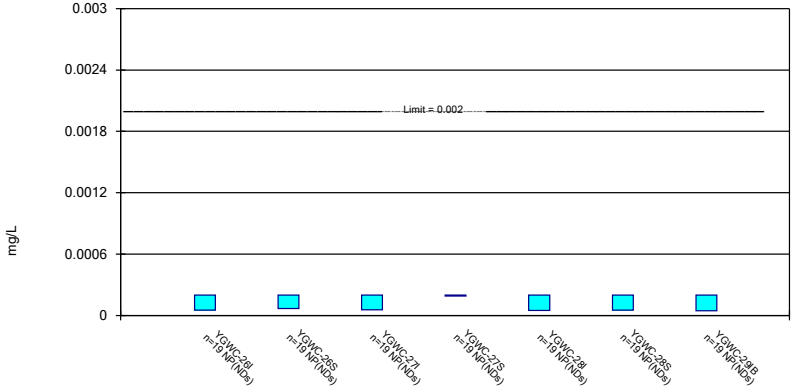
## Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.




Constituent: Mercury Analysis Run 5/2/2024 10:07 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

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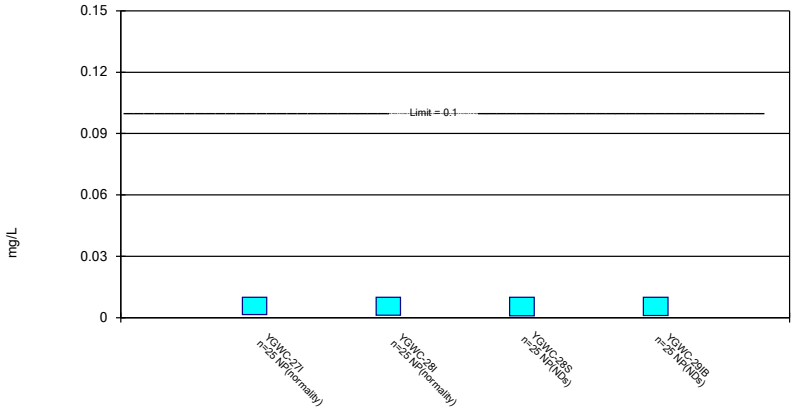
## Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.




Constituent: Molybdenum Analysis Run 5/2/2024 10:07 AM View: Appendix IV
Plant Yates Data: Yates Ash Pond 2

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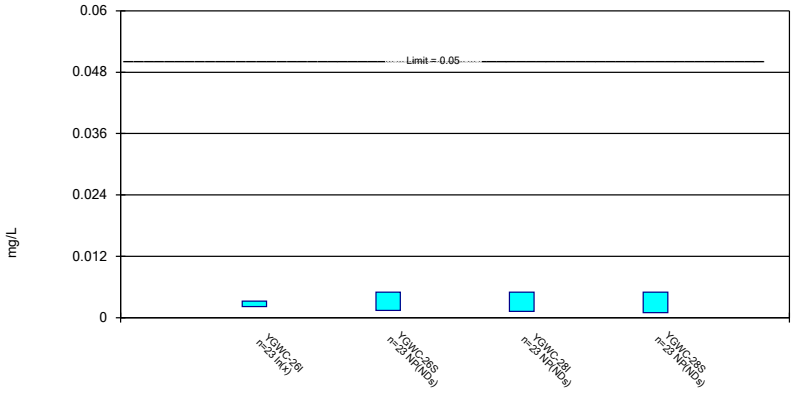
## Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.




Constituent: Selenium Analysis Run 5/2/2024 10:07 AM View: Appendix IV
Plant Yates Data: Yates Ash Pond 2

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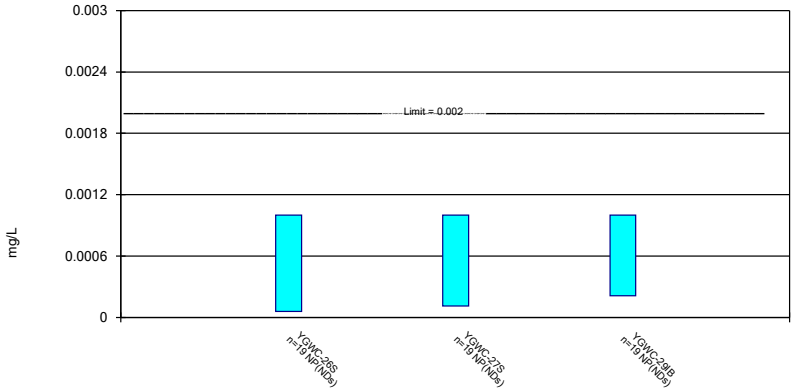
## Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.




Constituent: Thallium Analysis Run 5/2/2024 10:07 AM View: Appendix IV
Plant Yates Data: Yates Ash Pond 2

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-29IB |
|---|---|---|---|---|---|---|
| 6/8/2016 | <0.003 | <0.003 | <0.003 | <0.003 | | |
| 6/9/2016 | | | | | <0.003 | <0.003 |
| 8/1/2016 | <0.003 | <0.003 | <0.003 | <0.003 | | |
| 8/2/2016 | | | | | <0.003 | <0.003 |
| 9/20/2016 | <0.003 | <0.003 | <0.003 | <0.003 | | |
| 9/21/2016 | | | | | <0.003 | <0.003 |
| 11/7/2016 | <0.003 | <0.003 | <0.003 | <0.003 | | <0.003 |
| 11/8/2016 | | | | | <0.003 | |
| 1/18/2017 | <0.003 | <0.003 | <0.003 | | <0.003 | |
| 1/19/2017 | | | | <0.003 | | <0.003 |
| 2/21/2017 | <0.003 | <0.003 | | | | |
| 2/22/2017 | | | | <0.003 | <0.003 | <0.003 |
| 2/23/2017 | | | <0.003 | | | |
| 5/3/2017 | | <0.003 | | | | |
| 5/5/2017 | | | | | <0.003 | |
| 5/8/2017 | <0.003 | | <0.003 | <0.003 | | <0.003 |
| 6/30/2017 | | | <0.003 | <0.003 | | |
| 7/5/2017 | | | | | <0.003 | <0.003 |
| 7/10/2017 | <0.003 | <0.003 | | | | |
| 3/29/2018 | | | <0.003 | <0.003 | | <0.003 |
| 3/30/2018 | <0.003 | <0.003 | | | <0.003 | |
| 2/27/2019 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 |
| 2/13/2020 | 0.00052 (J) | 0.0016 (J) | <0.003 | <0.003 | <0.003 | <0.003 |
| 3/19/2020 | | 0.0017 (J) | | | <0.003 | |
| 3/20/2020 | 0.00059 (J) | | 0.00033 (J) | 0.0003 (J) | | <0.003 |
| 9/24/2020 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | 0.0013 (J) |
| 2/10/2021 | <0.003 | <0.003 | <0.003 | <0.003 | | |
| 2/11/2021 | | | | | <0.003 | |
| 2/12/2021 | | | | | | <0.003 |
| 3/2/2021 | | <0.003 | | | | |
| 3/3/2021 | <0.003 | | <0.003 | <0.003 | <0.003 | <0.003 |
| 8/19/2021 | | <0.003 | | | | |
| 8/20/2021 | <0.003 | | <0.003 | <0.003 | <0.003 | <0.003 |
| 2/8/2022 | | | | <0.003 | <0.003 | <0.003 |
| 2/10/2022 | <0.003 | <0.003 | <0.003 | | | |
| 8/31/2022 | 0.001 (J) | <0.003 | | | | |
| 9/1/2022 | | | <0.003 | <0.003 | <0.003 | <0.003 |
| 2/8/2023 | | | | | | <0.003 |
| 2/9/2023 | <0.003 | <0.003 | 0.0014 (J) | <0.003 | <0.003 | |
| 8/2/2023 | | | | | | <0.003 |
| 8/16/2023 | | | | | 0.0023 (J) | |
| 8/17/2023 | <0.003 | <0.003 | <0.003 | <0.003 | | |
| 2/21/2024 | | | <0.003 | <0.003 | <0.003 | |
| 2/22/2024 | <0.003 | <0.003 | | | | <0.003 |
| Mean | 0.002672 | 0.002871 | 0.002797 | 0.002871 | 0.002967 | 0.002919 |
| Std. Dev. | 0.0008276 | 0.0004064 | 0.0006641 | 0.0005892 | 0.0001528 | 0.000371 |
| Upper Lim. | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| Lower Lim. | 0.001 | 0.0017 | 0.0014 | 0.0003 | 0.0023 | 0.0013 |

ND substitution: RL or RL/2 if <15% NDs.

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWC-29IB |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | <0.005 | <0.005 | 0.0011 (J) | <0.005 | | | |
| 6/9/2016 | | | | | <0.005 | 0.00094 (J) | <0.005 |
| 8/1/2016 | <0.005 | <0.005 | 0.0009 (J) | <0.005 | | | |
| 8/2/2016 | | | | | <0.005 | <0.005 | <0.005 |
| 9/20/2016 | <0.005 | <0.005 | <0.005 | <0.005 | | | |
| 9/21/2016 | | | | | <0.005 | <0.005 | <0.005 |
| 11/7/2016 | <0.005 | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 |
| 11/8/2016 | | | | | <0.005 | | |
| 1/18/2017 | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 | |
| 1/19/2017 | | | | <0.005 | | | <0.005 |
| 2/21/2017 | <0.005 | <0.005 | | | | <0.005 | |
| 2/22/2017 | | | | <0.005 | <0.005 | | <0.005 |
| 2/23/2017 | | | <0.005 | | | | |
| 5/3/2017 | | <0.005 | | | | | |
| 5/5/2017 | | | | | <0.005 | <0.005 | |
| 5/8/2017 | <0.005 | | 0.0006 (J) | <0.005 | | | <0.005 |
| 6/30/2017 | | | <0.005 (*) | <0.005 (*) | | | |
| 7/5/2017 | | | | | <0.005 | | <0.005 |
| 7/7/2017 | | | | | | 0.0007 (J) | |
| 7/10/2017 | <0.005 | <0.005 | | | | | |
| 3/29/2018 | | | 0.0006 (J) | <0.005 | | | <0.005 |
| 3/30/2018 | <0.005 | <0.005 | | | <0.005 | 0.00069 (J) | |
| 6/11/2018 | | | | | | | <0.005 |
| 6/12/2018 | | | | <0.005 | <0.005 | 0.00075 (J) | |
| 6/13/2018 | <0.005 | <0.005 | <0.005 | | | | |
| 10/2/2018 | <0.005 | <0.005 | <0.005 | <0.005 | | | <0.005 |
| 10/3/2018 | | | | | <0.005 | 0.0007 (J) | |
| 2/27/2019 | <0.005 | <0.005 | 0.00069 (J) | <0.005 | <0.005 | <0.005 | <0.005 |
| 4/1/2019 | | | <0.005 | <0.005 | <0.005 | | <0.005 |
| 4/2/2019 | <0.005 | <0.005 | | | | <0.005 | |
| 9/25/2019 | <0.005 | <0.005 | | | | | <0.005 |
| 9/26/2019 | | | 0.00058 (J) | <0.005 | <0.005 | 0.00057 (J) | |
| 2/13/2020 | <0.005 | <0.005 | 0.00055 (J) | <0.005 | <0.005 | 0.00065 (J) | <0.005 |
| 3/19/2020 | | <0.005 | | | <0.005 | 0.00051 (J) | |
| 3/20/2020 | <0.005 | | 0.00042 (J) | <0.005 | | | <0.005 |
| 9/24/2020 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 2/10/2021 | <0.005 | <0.005 | <0.005 | <0.005 | | | |
| 2/11/2021 | | | | | <0.005 | | |
| 2/12/2021 | | | | | | <0.005 | <0.005 |
| 3/2/2021 | | <0.005 | | | | | |
| 3/3/2021 | <0.005 | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 8/19/2021 | | <0.005 | | | | | |
| 8/20/2021 | <0.005 | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 2/8/2022 | | | | 0.0019 (J) | 0.0021 (J) | 0.0042 (J) | 0.0033 (J) |
| 2/10/2022 | 0.0028 (J) | 0.0032 (J) | 0.004 (J) | | | | |
| 8/31/2022 | <0.005 | <0.005 | | | | | |
| 9/1/2022 | | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 2/8/2023 | | | | | | | <0.005 |
| 2/9/2023 | 0.0024 (J) | 0.0022 (J) | <0.005 | <0.005 | <0.005 | <0.005 | |
| 8/2/2023 | | | | | | | <0.005 |
| 8/16/2023 | | | | | <0.005 | <0.005 | |
| 8/17/2023 | <0.005 | <0.005 | <0.005 | <0.005 | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWC-29IB |
|---|---|---|---|---|---|---|---|
| 2/21/2024 | | | <0.005 | <0.005 | <0.005 | <0.005 | |
| 2/22/2024 | <0.005 | <0.005 | | | | | <0.005 |
| Mean | 0.004808 | 0.004816 | 0.003578 | 0.004876 | 0.004884 | 0.003588 | 0.004932 |
| Std. Dev. | 0.000667 | 0.000653 | 0.002042 | 0.00062 | 0.00058 | 0.002038 | 0.00034 |
| Upper Lim. | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Lower Lim. | 0.0028 | 0.0032 | 0.0009 | 0.0019 | 0.0021 | 0.00075 | 0.0033 |

ND substitution: RL or RL/2 if <15% NDs.

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWC-29IB |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | 0.068 | 0.029 | 0.081 | 0.12 | | | |
| 6/9/2016 | | | | | 0.1 | 0.22 | 0.082 |
| 8/1/2016 | 0.0688 | 0.0316 | 0.0838 | 0.115 | | | |
| 8/2/2016 | | | | | 0.0836 | 0.212 | 0.0781 |
| 9/20/2016 | 0.0663 | 0.0298 | 0.0687 | 0.108 | | | |
| 9/21/2016 | | | | | 0.0889 | 0.228 | 0.0782 |
| 11/7/2016 | 0.065 | 0.0289 | 0.0639 | 0.102 | | 0.214 | 0.0712 |
| 11/8/2016 | | | | | 0.0886 | | |
| 1/18/2017 | 0.0625 | 0.0278 | 0.0645 | | 0.0862 | 0.213 | |
| 1/19/2017 | | | | 0.102 | | | 0.0689 |
| 2/21/2017 | 0.0655 | 0.0282 | | | | 0.222 | |
| 2/22/2017 | | | | 0.106 | 0.0915 | | 0.0741 |
| 2/23/2017 | | | 0.0728 | | | | |
| 5/3/2017 | | 0.0282 | | | | | |
| 5/5/2017 | | | | | 0.0891 | 0.219 | |
| 5/8/2017 | 0.0699 | | 0.0721 | 0.102 | | | 0.0725 |
| 6/30/2017 | | | 0.0666 | 0.0963 | | | |
| 7/5/2017 | | | | | 0.0862 | | 0.0677 |
| 7/7/2017 | | | | | | 0.205 | |
| 7/10/2017 | 0.0691 | 0.0274 | | | | | |
| 3/29/2018 | | | 0.062 | 0.097 | | | 0.055 |
| 3/30/2018 | 0.063 | 0.026 | | | 0.087 | 0.2 | |
| 6/11/2018 | | | | | | | 0.068 |
| 6/12/2018 | | | | 0.095 | 0.088 | 0.21 | |
| 6/13/2018 | 0.064 | 0.026 | 0.063 | | | | |
| 10/2/2018 | 0.066 | 0.026 | 0.062 | 0.1 | | | 0.067 |
| 10/3/2018 | | | | | 0.092 | 0.22 | |
| 2/27/2019 | 0.065 | 0.027 | 0.066 | 0.096 | 0.086 | 0.21 | 0.067 |
| 4/1/2019 | | | 0.066 | 0.099 | 0.088 | | 0.063 |
| 4/2/2019 | 0.065 | 0.027 | | | | 0.2 | |
| 9/25/2019 | 0.063 | 0.026 | | | | | 0.061 |
| 9/26/2019 | | | 0.065 | 0.099 | 0.087 | 0.18 | |
| 2/13/2020 | 0.06 | 0.025 | 0.063 | 0.097 | 0.089 | 0.21 | 0.053 |
| 3/19/2020 | | 0.027 | | | 0.089 | 0.2 | |
| 3/20/2020 | 0.063 | | 0.062 | 0.095 | | | 0.057 |
| 9/24/2020 | 0.058 | 0.025 | 0.069 | 0.087 | 0.079 | 0.18 | 0.056 |
| 2/10/2021 | 0.06 | 0.031 | 0.08 | 0.088 | | | |
| 2/11/2021 | | | | | 0.078 | | |
| 2/12/2021 | | | | | | 0.057 | 0.21 |
| 3/2/2021 | | 0.031 | | | | | |
| 3/3/2021 | 0.064 | | 0.08 | 0.075 | 0.077 | 0.25 | 0.059 |
| 8/19/2021 | | 0.023 | | | | | |
| 8/20/2021 | 0.063 | | 0.083 | 0.082 | 0.079 | 0.24 | 0.057 |
| 2/8/2022 | | | | 0.068 | 0.083 | 0.2 | 0.057 |
| 2/10/2022 | 0.063 | 0.027 | 0.079 | | | | |
| 8/31/2022 | 0.057 | 0.024 | | | | | |
| 9/1/2022 | | | 0.076 | 0.049 | 0.068 | 0.2 | 0.057 |
| 2/8/2023 | | | | | | | 0.098 |
| 2/9/2023 | 0.058 | 0.028 | 0.076 | 0.049 | 0.07 | 0.22 | |
| 8/2/2023 | | | | | | | 0.1 |
| 8/16/2023 | | | | | 0.066 | 0.21 | |
| 8/17/2023 | 0.061 | 0.025 | 0.069 | 0.051 | | | |

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWC-29IB |
|---|---|---|---|---|---|---|---|
| 2/21/2024 | | | 0.06 | 0.047 | 0.062 | 0.21 | |
| 2/22/2024 | 0.057 | 0.025 | | | | | 0.081 |
| Mean | 0.0634 | 0.0272 | 0.07018 | 0.08901 | 0.08328 | 0.2052 | 0.07435 |
| Std. Dev. | 0.003673 | 0.002211 | 0.007568 | 0.02093 | 0.009001 | 0.03448 | 0.03089 |
| Upper Lim. | 0.06523 | 0.0283 | 0.07395 | 0.1001 | 0.08777 | 0.2199 | 0.0781 |
| Lower Lim. | 0.06157 | 0.02609 | 0.0664 | 0.08167 | 0.0788 | 0.1984 | 0.057 |

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26S | YGWC-27I | YGWC-27S |
|---|---|---|---|
| 6/8/2016 | <0.0005 | <0.0005 | <0.0005 |
| 8/1/2016 | 0.0002 (J) | <0.0005 | <0.0005 |
| 9/20/2016 | 0.0001 (J) | 9E-05 (J) | <0.0005 |
| 11/7/2016 | 0.0001 (J) | 0.0001 (J) | <0.0005 |
| 1/18/2017 | 0.0002 (J) | 0.0002 (J) | |
| 1/19/2017 | | | <0.0005 |
| 2/21/2017 | 0.0002 (J) | | |
| 2/22/2017 | | | <0.0005 |
| 2/23/2017 | | 0.0002 (J) | |
| 5/3/2017 | 0.0002 (J) | | |
| 5/8/2017 | | 0.0002 (J) | <0.0005 |
| 6/30/2017 | | 0.0002 (J) | <0.0005 |
| 7/10/2017 | 0.0002 (J) | | |
| 3/29/2018 | | <0.0005 | <0.0005 |
| 3/30/2018 | <0.0005 | | |
| 2/27/2019 | 0.00018 (J) | 0.00022 (J) | <0.0005 |
| 4/1/2019 | | 0.00022 (J) | <0.0005 |
| 4/2/2019 | 0.00015 (J) | | |
| 9/25/2019 | 0.00011 (J) | | |
| 9/26/2019 | | 0.0002 (J) | <0.0005 |
| 2/13/2020 | 0.00015 (J) | 0.00021 (J) | <0.0005 |
| 3/19/2020 | 0.00012 (J) | | |
| 3/20/2020 | | 0.00023 (J) | <0.0005 |
| 9/24/2020 | 8.5E-05 (J) | 0.00019 (J) | <0.0005 |
| 2/10/2021 | 0.00013 (J) | 0.00014 (J) | 6.6E-05 (J) |
| 3/2/2021 | 0.00016 (J) | | |
| 3/3/2021 | | 0.00013 (J) | <0.0005 |
| 8/19/2021 | 8.2E-05 (J) | | |
| 8/20/2021 | | 8.6E-05 (J) | 0.00011 (J) |
| 2/8/2022 | | | <0.0005 |
| 2/10/2022 | 9.3E-05 (J) | 0.00013 (J) | |
| 8/31/2022 | 7.4E-05 (J) | | |
| 9/1/2022 | | 0.00012 (J) | <0.0005 |
| 2/9/2023 | 6.8E-05 (J) | 0.0001 (J) | <0.0005 |
| 8/17/2023 | <0.0005 | 9.5E-05 (J) | <0.0005 |
| 2/21/2024 | | 0.00011 (J) | <0.0005 |
| 2/22/2024 | <0.0005 | | |
| Mean | 0.0002001 | 0.0001705 | 0.0004642 |
| Std. Dev. | 0.0001474 | 5.775E-05 | 0.0001189 |
| Upper Lim. | 0.0001278 | 0.0002007 | 0.0005 |
| Lower Lim. | 9.104E-05 | 0.0001403 | 0.00011 |

ND substitution: RL or RL/2 if <15% NDs.

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

| | YGWC-28I | YGWC-28S | YGWC-29IB |
|---|---|---|---|
| 6/9/2016 | 0.00055 (J) | <0.0005 | <0.0025 |
| 8/2/2016 | 0.0001 (J) | <0.0005 | 0.0001 (J) |
| 9/21/2016 | 0.0001 (J) | <0.0005 | 0.0002 (J) |
| 11/7/2016 | | <0.0005 | 0.0002 (J) |
| 11/8/2016 | 9E-05 (J) | | |
| 1/18/2017 | 9E-05 (J) | <0.0005 | |
| 1/19/2017 | | | 0.0001 (J) |
| 2/21/2017 | | <0.0005 | |
| 2/22/2017 | 0.0001 (J) | | 0.0001 (J) |
| 5/5/2017 | 9E-05 (J) | <0.0005 | |
| 5/8/2017 | | | 0.0002 (J) |
| 7/5/2017 | 0.0002 (J) | | 0.0002 (J) |
| 7/7/2017 | | <0.0005 | |
| 3/29/2018 | | | <0.0025 |
| 3/30/2018 | <0.0005 | <0.0005 | |
| 2/27/2019 | 0.00014 (J) | <0.0005 | 0.00026 (J) |
| 4/1/2019 | 0.00043 (J) | | 0.00022 (J) |
| 4/2/2019 | | <0.0005 | |
| 9/25/2019 | | | 0.00024 (J) |
| 9/26/2019 | <0.0005 | <0.0005 | |
| 2/13/2020 | 0.00013 (J) | <0.0005 | 0.00018 (J) |
| 3/19/2020 | 0.00016 (J) | <0.0005 | |
| 3/20/2020 | | | 0.00022 (J) |
| 9/24/2020 | 0.00027 (J) | <0.0005 | 0.00033 (J) |
| 2/11/2021 | 0.00052 (J) | | |
| 2/12/2021 | | 0.00048 (J) | <0.0025 |
| 3/3/2021 | 0.00014 (J) | <0.0005 | 0.00029 (J) |
| 8/20/2021 | 0.00027 (J) | <0.0005 | 0.00027 (J) |
| 2/8/2022 | 0.00033 (J) | <0.0005 | 0.00019 (J) |
| 9/1/2022 | 0.00017 (J) | <0.0005 | 0.0002 (J) |
| 2/8/2023 | | | 0.00028 (J) |
| 2/9/2023 | <0.0005 | <0.0005 | |
| 8/2/2023 | | | 0.00016 (J) |
| 8/16/2023 | <0.0005 | <0.0005 | |
| 2/21/2024 | <0.0005 | <0.0005 | |
| 2/22/2024 | | | 0.00012 (J) |
| Mean | 0.0002774 | 0.0004991 | 0.0003396 |
| Std. Dev. | 0.0001781 | 4.17E-06 | 0.0003656 |
| Upper Lim. | 0.0005 | 0.0005 | 0.00028 |
| Lower Lim. | 0.0001 | 0.00048 | 0.00018 |

ND substitution: RL or RL/2 if <15% NDs.

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWC-29IB |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | <0.005 | <0.005 | <0.005 | <0.005 | | | |
| 6/9/2016 | | | | | <0.005 | <0.005 | <0.005 |
| 8/1/2016 | 0.0008 (J) | 0.0026 (J) | <0.005 | <0.005 | | | |
| 8/2/2016 | | | | | 0.0005 (J) | 0.0005 (J) | 0.0005 (J) |
| 9/20/2016 | <0.005 | 0.001 (J) | <0.005 | <0.005 | | | |
| 9/21/2016 | | | | | <0.005 | <0.005 | <0.005 |
| 11/7/2016 | <0.005 | 0.0013 (J) | <0.005 | <0.005 | | <0.005 | <0.005 |
| 11/8/2016 | | | | | <0.005 | | |
| 1/18/2017 | <0.005 | 0.002 (J) | <0.005 | | <0.005 | <0.005 | |
| 1/19/2017 | | | | <0.005 | | | <0.005 |
| 2/21/2017 | <0.005 | 0.0019 (J) | | | | <0.005 | |
| 2/22/2017 | | | | <0.005 | <0.005 | | <0.005 |
| 2/23/2017 | | | <0.005 | | | | |
| 5/3/2017 | | 0.0037 (J) | | | | | |
| 5/5/2017 | | | | | <0.005 | <0.005 | |
| 5/8/2017 | 0.0006 (J) | | <0.005 | <0.005 | | | <0.005 |
| 6/30/2017 | | | <0.005 | <0.005 | | | |
| 7/5/2017 | | | | | <0.005 | | <0.005 |
| 7/7/2017 | | | | | | <0.005 | |
| 7/10/2017 | <0.005 (*) | <0.005 (*) | | | | | |
| 3/29/2018 | | | <0.005 | <0.005 | | | <0.005 |
| 3/30/2018 | <0.005 | <0.005 | | | <0.005 | <0.005 | |
| 2/27/2019 | 0.0049 (J) | 0.0055 (J) | <0.005 | 0.015 | <0.005 | <0.005 | <0.005 |
| 4/1/2019 | | | <0.005 | <0.005 | <0.005 | | <0.005 |
| 4/2/2019 | <0.005 | 0.003 (J) | | | | <0.005 | |
| 9/25/2019 | 0.00048 (J) | 0.0012 (J) | | | | | <0.005 |
| 9/26/2019 | | | <0.005 | <0.005 | 0.00044 (J) | <0.005 | |
| 2/13/2020 | 0.00044 (J) | 0.0012 (J) | <0.005 | <0.005 | 0.00047 (J) | <0.005 | <0.005 |
| 3/19/2020 | | 0.0018 (J) | | | <0.005 | 0.00049 (J) | |
| 3/20/2020 | 0.0009 (J) | | <0.005 | 0.0005 (J) | | | <0.005 |
| 9/24/2020 | 0.00067 (J) | 0.00068 (J) | <0.005 | 0.00057 (J) | <0.005 | 0.0006 (J) | <0.005 |
| 2/10/2021 | 0.00065 (J) | 0.00091 (J) | <0.005 | 0.0027 (J) | | | |
| 2/11/2021 | | | | | <0.005 | | |
| 2/12/2021 | | | | | | <0.005 | <0.005 |
| 3/2/2021 | | 0.001 (J) | | | | | |
| 3/3/2021 | <0.005 | | <0.005 | 0.00058 (J) | <0.005 | <0.005 | <0.005 |
| 8/19/2021 | | 0.0012 (J) | | | | | |
| 8/20/2021 | <0.005 | | 0.012 | 0.0041 (J) | <0.005 | <0.005 | <0.005 |
| 2/8/2022 | | | | <0.005 | <0.005 | <0.005 | <0.005 |
| 2/10/2022 | <0.005 | <0.005 | <0.005 | | | | |
| 8/31/2022 | <0.005 | <0.005 | | | | | |
| 9/1/2022 | | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 2/8/2023 | | | | | | | <0.005 |
| 2/9/2023 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.0034 (J) | |
| 8/2/2023 | | | | | | | <0.005 |
| 8/16/2023 | | | | | <0.005 | <0.005 | |
| 8/17/2023 | <0.005 | <0.005 | <0.005 | <0.005 | | | |
| 2/21/2024 | | | <0.005 | <0.005 | <0.005 | <0.005 | |
| 2/22/2024 | <0.005 | <0.005 | | | | | <0.005 |
| Mean | 0.003671 | 0.003 | 0.005304 | 0.004715 | 0.004409 | 0.004347 | 0.004804 |
| Std. Dev. | 0.002046 | 0.00182 | 0.00146 | 0.002727 | 0.00156 | 0.001548 | 0.0009383 |
| Upper Lim. | 0.005 | 0.005 | 0.012 | 0.005 | 0.005 | 0.005 | 0.005 |

ND substitution: RL or RL/2 if <15% NDs.

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWC-29IB |
|---|---|---|---|---|---|---|---|
| Lower Lim. | 0.0008 | 0.0012 | 0.005 | 0.0041 | 0.0005 | 0.0034 | 0.0005 |

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWC-29IB |
|---|---|---|---|---|---|---|
| 6/8/2016 | 0.0032 | 0.0016 (J) | 0.0024 (J) | | | |
| 6/9/2016 | | | | 0.00042 (J) | 0.00085 (J) | 0.00052 (J) |
| 8/1/2016 | 0.003 (J) | 0.0014 (J) | 0.0026 (J) | | | |
| 8/2/2016 | | | | <0.005 | 0.0008 (J) | 0.0006 (J) |
| 9/20/2016 | 0.003 (J) | 0.002 (J) | 0.0026 (J) | | | |
| 9/21/2016 | | | | <0.005 | 0.0008 (J) | 0.0007 (J) |
| 11/7/2016 | 0.0025 (J) | 0.0016 (J) | 0.0025 (J) | | 0.001 (J) | <0.005 |
| 11/8/2016 | | | | <0.005 | | |
| 1/18/2017 | 0.0022 (J) | 0.0017 (J) | | <0.005 | 0.001 (J) | |
| 1/19/2017 | | | 0.0024 (J) | | | <0.005 |
| 2/21/2017 | 0.0022 (J) | | | | 0.0011 (J) | |
| 2/22/2017 | | | 0.0023 (J) | <0.005 | | <0.005 |
| 2/23/2017 | | 0.002 (J) | | | | |
| 5/3/2017 | 0.002 (J) | | | | | |
| 5/5/2017 | | | | <0.005 | 0.0012 (J) | |
| 5/8/2017 | | 0.0029 (J) | 0.0023 (J) | | | <0.005 |
| 6/30/2017 | | 0.0044 (J) | 0.0022 (J) | | | |
| 7/5/2017 | | | | <0.005 | | 0.0003 (J) |
| 7/7/2017 | | | | | 0.0012 (J) | |
| 7/10/2017 | 0.002 (J) | | | | | |
| 3/29/2018 | | 0.0495 (D) | <0.005 | | | <0.005 |
| 3/30/2018 | <0.005 | | | <0.005 | <0.005 | |
| 6/11/2018 | | | | | | <0.005 |
| 6/12/2018 | | | 0.0025 (J) | <0.005 | 0.0011 (J) | |
| 6/13/2018 | 0.0017 (J) | 0.092 | | | | |
| 10/2/2018 | 0.002 (J) | 0.078 | 0.0023 (J) | | | <0.005 |
| 10/3/2018 | | | | <0.005 | 0.0013 (J) | |
| 2/27/2019 | 0.0017 (J) | 0.035 | 0.0024 (J) | <0.005 | 0.00093 (J) | <0.005 |
| 4/1/2019 | | 0.025 | 0.0023 (J) | <0.005 | | <0.005 |
| 4/2/2019 | 0.0022 (J) | | | | 0.0011 (J) | |
| 9/25/2019 | 0.0033 (J) | | | | | <0.005 |
| 9/26/2019 | | 0.014 | 0.0021 (J) | <0.005 | 0.00098 (J) | |
| 2/13/2020 | 0.0019 (J) | 0.012 | 0.0026 (J) | <0.005 | 0.00092 (J) | <0.005 |
| 3/19/2020 | 0.0021 (J) | | | <0.005 | 0.00093 (J) | |
| 3/20/2020 | | 0.014 | 0.0022 (J) | | | <0.005 |
| 9/24/2020 | 0.0011 (J) | 0.0076 | 0.0021 (J) | <0.005 | 0.00085 (J) | <0.005 |
| 2/10/2021 | 0.0017 (J) | 0.0048 (J) | 0.0025 (J) | | | |
| 2/11/2021 | | | | <0.005 | | |
| 2/12/2021 | | | | | <0.005 | 0.00094 (J) |
| 3/2/2021 | 0.0021 (J) | | | | | |
| 3/3/2021 | | 0.0042 (J) | 0.0017 (J) | <0.005 | 0.001 (J) | <0.005 |
| 8/19/2021 | 0.0017 (J) | | | | | |
| 8/20/2021 | | 0.0034 (J) | 0.0027 (J) | <0.005 | 0.00097 (J) | <0.005 |
| 2/8/2022 | | | 0.0017 (J) | <0.005 | 0.00091 (J) | <0.005 |
| 2/10/2022 | 0.0026 (J) | 0.0051 | | | | |
| 8/31/2022 | 0.0026 (J) | | | | | |
| 9/1/2022 | | 0.0096 | 0.0015 (J) | <0.005 | 0.00071 (J) | <0.005 |
| 2/8/2023 | | | | | | 0.0053 |
| 2/9/2023 | 0.0017 (J) | 0.0083 | 0.0015 (J) | <0.005 | 0.00074 (J) | |
| 8/2/2023 | | | | | | 0.0027 (J) |
| 8/16/2023 | | | | <0.005 | 0.0008 (J) | |
| 8/17/2023 | 0.00088 (J) | 0.0079 | 0.0014 (J) | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWC-29IB |
|---|---|---|---|---|---|---|
| 2/21/2024 | | 0.016 | 0.0016 (J) | <0.005 | 0.00074 (J) | |
| 2/22/2024 | 0.0012 (J) | | | | | 0.0071 |
| Mean | 0.002123 | 0.01616 | 0.002196 | 0.004817 | 0.001077 | 0.004126 |
| Std. Dev. | 0.0006217 | 0.02373 | 0.0003953 | 0.000916 | 0.0004546 | 0.001906 |
| Upper Lim. | 0.002433 | 0.01376 | 0.002404 | 0.005 | 0.0011 | 0.005 |
| Lower Lim. | 0.001813 | 0.004019 | 0.002041 | 0.00042 | 0.00085 | 0.0027 |

ND substitution: RL or RL/2 if <15% NDs.

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWC-29IB |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | 6.68 (o) | 0.677 | 1.81 | 0.257 (U) | | | |
| 6/9/2016 | | | | | 0.194 (U) | 0.715 | 0.523 |
| 8/1/2016 | 0.606 (U) | 0.457 (U) | 3.79 | 0.453 (U) | | | |
| 8/2/2016 | | | | | 0.331 (U) | 0.526 (U) | 1.25 |
| 9/20/2016 | 0.565 (U) | 0.555 (U) | 3.12 | 1.27 | | | |
| 9/21/2016 | | | | | 0.335 (U) | 0.176 (U) | 1.21 (U) |
| 11/7/2016 | 0.773 (U) | 0.647 (U) | 2.66 | 0.877 (U) | | 0.609 (U) | 1.16 |
| 11/8/2016 | | | | | 0.245 (U) | | |
| 1/18/2017 | 0.263 (U) | 0.6 (U) | 3.44 | | 0.261 (U) | 0.0752 (U) | |
| 1/19/2017 | | | | 0.764 (U) | | | 0.933 (U) |
| 2/21/2017 | 1.06 (U) | 1.11 (U) | | | | 0.404 (U) | |
| 2/22/2017 | | | | 1.26 (U) | 0.516 (U) | | 1.45 (U) |
| 2/23/2017 | | | 4.73 | | | | |
| 5/3/2017 | | 0.654 (U) | | | | | |
| 5/5/2017 | | | | | 0.713 (U) | 0.868 (U) | |
| 5/8/2017 | 0.291 (U) | | 3.87 | 0.789 (U) | | | 0.21 (U) |
| 6/30/2017 | | | 2.85 | 0.592 (U) | | | |
| 7/5/2017 | | | | | 0.292 (U) | | 0.62 (U) |
| 7/7/2017 | | | | | | 1.29 | |
| 7/10/2017 | 0.912 | 0.649 (U) | | | | | |
| 3/29/2018 | | | 1.41 | 0.916 (U) | | | 1.37 |
| 3/30/2018 | 0.23 (U) | 0.501 (U) | | | 0.948 (U) | 0.195 (U) | |
| 6/11/2018 | | | | | | | 1.27 (U) |
| 6/12/2018 | | | | 0.666 (U) | 0.869 (U) | 1.02 (U) | |
| 6/13/2018 | 0.427 (U) | 1.09 (U) | 3.69 | | | | |
| 10/2/2018 | 1.41 (U) | 0.747 (U) | 4.5 | 0.774 (U) | | | 0.442 (U) |
| 10/3/2018 | | | | | 0.864 (U) | 0.713 (U) | |
| 2/27/2019 | 0.614 (U) | 1.27 | 4.69 | 1.19 | 0.947 (U) | 0.543 (U) | 0.902 (U) |
| 4/1/2019 | | | 5 | 0.777 (U) | 0.162 (U) | | 0.584 (U) |
| 4/2/2019 | 0.84 (U) | 0.708 (U) | | | | 0.521 (U) | |
| 9/25/2019 | 1.01 (U) | 1.18 (U) | | | | | 1.03 (U) |
| 9/26/2019 | | | 3.37 | 1.01 (U) | 1.06 (U) | 1.16 | |
| 2/13/2020 | 1.86 | 0.178 (U) | 4.48 | 0.961 (U) | 1.12 (U) | 1.04 | 0.806 (U) |
| 3/19/2020 | | 0.796 (U) | | | 0.913 (U) | 1.01 (U) | |
| 3/20/2020 | 2.03 | | 4.13 | 1.5 | | | 1.42 |
| 9/24/2020 | <1.53 | <1.9 | 3.42 | 1.49 | <2.15 | <1.86 | <1.88 |
| 2/10/2021 | 0.513 (U) | 0.41 (U) | 2.47 | 0.663 (U) | | | |
| 2/11/2021 | | | | | 1.07 | | |
| 2/12/2021 | | | | | | 0.419 (U) | 0.826 |
| 3/2/2021 | | 0.394 (U) | | | | | |
| 3/3/2021 | 0.419 (U) | | 1.39 | 0.327 (U) | 0.261 (U) | 1.04 | 0.955 |
| 8/19/2021 | | 0.531 (U) | | | | | |
| 8/20/2021 | 0.596 (U) | | 1.36 | 0.542 (U) | 0.656 (U) | 1.34 | 0.314 (U) |
| 2/8/2022 | | | | 0.781 (U) | 1.07 (U) | 0.964 | 0.104 (U) |
| 2/10/2022 | 0.149 (U) | 0.431 (U) | 1.23 | | | | |
| 8/31/2022 | 0.179 (U) | 0.602 (U) | | | | | |
| 9/1/2022 | | | 2.93 | 0.147 (U) | 0.602 (U) | 0.127 (U) | 0.445 (U) |
| 2/8/2023 | | | | | | | 0.963 (U) |
| 2/9/2023 | 1.05 (U) | 0.46 (U) | 2.56 | 0.348 (U) | 0.164 (U) | 0.733 (U) | |
| 8/2/2023 | | | | | | | 1.23 |
| 8/16/2023 | | | | | 0.62 (U) | 0.837 (U) | |
| 8/17/2023 | 0.635 (U) | 0.734 (U) | 3.48 | 0.509 (U) | | | |

ND substitution: RL or RL/2 if <15% NDs.

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWC-29IB |
|---|---|---|---|---|---|---|---|
| 2/21/2024 | | | 3.26 | 0.669 (U) | 0.447 (U) | 0.781 (U) | |
| 2/22/2024 | 0.745 (U) | 0.303 (U) | | | | | 0.871 (U) |
| Mean | 0.7476 | 0.6654 | 3.186 | 0.7813 | 0.6294 | 0.7214 | 0.8731 |
| Std. Dev. | 0.4837 | 0.2765 | 1.125 | 0.3624 | 0.3413 | 0.358 | 0.384 |
| Upper Lim. | 0.9944 | 0.8032 | 3.746 | 0.9619 | 0.7995 | 0.8999 | 1.065 |
| Lower Lim. | 0.5008 | 0.5276 | 2.625 | 0.6006 | 0.4593 | 0.543 | 0.6817 |

# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWC-29IB |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | 0.094 (J) | <0.1 | 0.086 (J) | 0.12 (J) | | | |
| 6/9/2016 | | | | | 0.098 (J) | 0.16 (J) | 0.085 (J) |
| 8/1/2016 | 0.08 (J) | 0.24 (J) | 0.14 (J) | 0.22 (J) | | | |
| 8/2/2016 | | | | | 0.38 | 0.5 | 0.09 (J) |
| 9/20/2016 | 0.05 (J) | 0.03 (J) | <0.3 | 0.32 | | | |
| 9/21/2016 | | | | | 0.08 (J) | 0.25 (J) | 0.09 (J) |
| 11/7/2016 | <0.1 (*) | 0.44 | <0.3 (*) | <0.1 (*) | | 0.27 (J) | <0.3 (*) |
| 11/8/2016 | | | | | 0.24 (J) | | |
| 1/18/2017 | 0.11 (J) | <0.1 (*) | <0.3 (*) | | 0.12 (J) | 0.34 | |
| 1/19/2017 | | | | 0.25 (J) | | | <0.3 (*) |
| 2/21/2017 | <0.1 (*) | <0.1 (*) | | | | 0.27 (J) | |
| 2/22/2017 | | | | 0.21 (J) | <0.3 (*) | | <0.3 (*) |
| 2/23/2017 | | | <0.3 (*) | | | | |
| 5/3/2017 | | 0.16 (J) | | | | | |
| 5/5/2017 | | | | | 0.08 (J) | 0.2 (J) | |
| 5/8/2017 | 0.08 (J) | | 0.07 (J) | 0.19 (J) | | | 0.06 (J) |
| 6/30/2017 | | | <0.3 (*) | 0.2 (J) | | | |
| 7/5/2017 | | | | | 0.11 (J) | | 0.08 (J) |
| 7/7/2017 | | | | | | 0.18 (J) | |
| 7/10/2017 | <0.1 (*) | <0.1 (*) | | | | | |
| 10/5/2017 | | | | | <0.3 (*) | | <0.3 (*) |
| 10/6/2017 | | | | <0.1 (*) | | | |
| 10/9/2017 | | | <0.3 (*) | | | <0.3 (*) | |
| 10/10/2017 | <0.1 | <0.1 | | | | | |
| 3/29/2018 | | | <0.3 | 0.49 | | | <0.3 |
| 3/30/2018 | <0.1 | 0.35 | | | <0.3 | <0.3 | |
| 6/11/2018 | | | | | | | <0.3 |
| 6/12/2018 | | | | 0.037 (J) | <0.3 | 0.13 (J) | |
| 6/13/2018 | 0.088 (J) | 0.044 (J) | <0.3 | | | | |
| 10/2/2018 | <0.1 | <0.1 | <0.3 | <0.1 | | | <0.3 |
| 10/3/2018 | | | | | <0.3 | 0.31 | |
| 2/27/2019 | <0.1 | <0.1 | <0.3 | 0.14 (J) | 0.14 (J) | 0.22 (J) | 0.15 (J) |
| 4/1/2019 | | | 0.034 (J) | 0.088 (J) | 0.078 (J) | | 0.059 (J) |
| 4/2/2019 | 0.071 (J) | <0.1 | | | | 0.14 (J) | |
| 9/25/2019 | 0.064 (J) | <0.1 | | | | | 0.054 (J) |
| 9/26/2019 | | | 0.14 (J) | 0.22 (J) | 0.29 (J) | 0.28 (J) | |
| 2/13/2020 | <0.1 | <0.1 | <0.3 | 0.11 (J) | 0.14 (J) | 0.18 (J) | 0.053 (J) |
| 3/19/2020 | | <0.1 | | | 0.07 (J) | 0.16 (J) | |
| 3/20/2020 | 0.06 (J) | | <0.3 | 0.097 (J) | | | 0.057 (J) |
| 9/24/2020 | 0.053 (J) | <0.1 | 0.059 (J) | 0.092 (J) | 0.073 (J) | 0.16 | 0.06 (J) |
| 2/10/2021 | 0.05 (J) | <0.1 | 0.055 (J) | 0.084 (J) | | | |
| 2/11/2021 | | | | | 0.066 (J) | | |
| 2/12/2021 | | | | | | 0.069 (J) | 0.17 |
| 3/2/2021 | | <0.1 | | | | | |
| 3/3/2021 | 0.05 (J) | | 0.058 (J) | <0.1 | 0.072 (J) | 0.13 | 0.056 (J) |
| 8/19/2021 | | <0.1 | | | | | |
| 8/20/2021 | <0.1 | | 0.091 (J) | 0.11 | 0.11 | 0.2 | 0.069 (J) |
| 2/8/2022 | | | | 0.087 (J) | 0.063 (J) | 0.14 | 0.053 (J) |
| 2/10/2022 | <0.1 | <0.1 | 0.059 (J) | | | | |
| 8/31/2022 | 0.082 (J) | 0.076 (J) | | | | | |
| 9/1/2022 | | | 0.1 | 0.12 | 0.11 | 0.16 | 0.091 (J) |
| 2/8/2023 | | | | | | | 0.092 (J) |

ND substitution: RL or RL/2 if <15% NDs.

# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWC-29IB |
|---|---|---|---|---|---|---|---|
| 2/9/2023 | 0.088 (J) | 0.07 (J) | 0.1 | 0.12 | 0.14 | 0.18 | |
| 8/2/2023 | | | | | | | 0.054 (J) |
| 8/16/2023 | | | | | 0.078 (J) | 0.18 | |
| 8/17/2023 | 0.073 (J) | 0.06 (J) | 0.081 (J) | 0.098 (J) | | | |
| 2/21/2024 | | | 0.082 (J) | 0.11 | 0.096 (J) | 0.15 | |
| 2/22/2024 | 0.057 (J) | <0.1 | | | | | 0.075 (J) |
| Mean | 0.08269 | 0.1219 | 0.1829 | 0.1505 | 0.159 | 0.2023 | 0.1384 |
| Std. Dev. | 0.01978 | 0.08942 | 0.1128 | 0.09453 | 0.1012 | 0.08725 | 0.1037 |
| Upper Lim. | 0.1 | 0.16 | 0.3 | 0.1594 | 0.29 | 0.2349 | 0.17 |
| Lower Lim. | 0.064 | 0.076 | 0.081 | 0.09053 | 0.078 | 0.1581 | 0.059 |

ND substitution: RL or RL/2 if <15% NDs.

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27S | YGWC-28S | YGWC-29IB |
|---|---|---|---|---|---|
| 6/8/2016 | <0.001 | <0.001 | <0.001 (*) | | |
| 6/9/2016 | | | | <0.001 | <0.001 |
| 8/1/2016 | <0.001 | <0.001 | <0.001 | | |
| 8/2/2016 | | | | <0.001 | <0.001 |
| 9/20/2016 | <0.001 | <0.001 | 0.0002 (J) | | |
| 9/21/2016 | | | | <0.001 | <0.001 |
| 11/7/2016 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 1/18/2017 | <0.001 | <0.001 | | <0.001 | |
| 1/19/2017 | | | <0.001 | | <0.001 |
| 2/21/2017 | <0.001 | <0.001 | | <0.001 | |
| 2/22/2017 | | | <0.001 | | <0.001 |
| 5/3/2017 | | <0.001 (*) | | | |
| 5/5/2017 | | | | <0.001 (*) | |
| 5/8/2017 | <0.001 | | <0.001 | | <0.001 |
| 6/30/2017 | | | <0.001 | | |
| 7/5/2017 | | | | | <0.001 |
| 7/7/2017 | | | | 7E-05 (J) | |
| 7/10/2017 | <0.001 | 8E-05 (J) | | | |
| 3/29/2018 | | | <0.001 | | <0.001 |
| 3/30/2018 | <0.001 | <0.001 | | <0.001 | |
| 2/27/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 2/13/2020 | <0.001 | <0.001 | 6.2E-05 (J) | 5.4E-05 (J) | <0.001 |
| 3/19/2020 | | 0.0001 (J) | | 7.5E-05 (J) | |
| 3/20/2020 | 5.9E-05 (J) | | 8.5E-05 (J) | | <0.001 |
| 9/24/2020 | <0.001 | 6.4E-05 (J) | 0.00037 (J) | 6.3E-05 (J) | 9.5E-05 (J) |
| 2/10/2021 | 5.1E-05 (J) | 5E-05 (J) | 0.00072 (J) | | |
| 2/12/2021 | | | | 5.2E-05 (J) | 6.6E-05 (J) |
| 3/2/2021 | | 5.6E-05 (J) | | | |
| 3/3/2021 | <0.001 | | <0.001 | <0.001 | 0.00016 (J) |
| 8/19/2021 | | <0.001 | | | |
| 8/20/2021 | <0.001 | | 0.00096 (J) | <0.001 | <0.001 |
| 2/8/2022 | | | <0.001 | <0.001 | <0.001 |
| 2/10/2022 | <0.001 | <0.001 | | | |
| 8/31/2022 | <0.001 | <0.001 | | | |
| 9/1/2022 | | | <0.001 | <0.001 | <0.001 |
| 2/8/2023 | | | | | <0.001 |
| 2/9/2023 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 8/2/2023 | | | | | <0.001 |
| 8/16/2023 | | | | <0.001 | |
| 8/17/2023 | <0.001 | <0.001 | <0.001 | | |
| 2/21/2024 | | | <0.001 | <0.001 | |
| 2/22/2024 | <0.001 | <0.001 | | | <0.001 |
| Mean | 0.00091 | 0.0007786 | 0.0008284 | 0.0007769 | 0.0008724 |
| Std. Dev. | 0.0002843 | 0.000406 | 0.0003329 | 0.0004091 | 0.0003206 |
| Upper Lim. | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Lower Lim. | 5.9E-05 | 0.0001 | 0.00072 | 7.5E-05 | 0.00016 |

ND substitution: RL or RL/2 if <15% NDs.

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWC-29IB |
|---|---|---|---|---|---|---|
| 6/8/2016 | 0.007 | 0.0067 | <0.03 | | | |
| 6/9/2016 | | | | 0.0073 | <0.03 | 0.0075 |
| 8/1/2016 | 0.0068 (J) | 0.008 (J) | <0.03 | | | |
| 8/2/2016 | | | | 0.0073 (J) | <0.03 | 0.0078 (J) |
| 9/20/2016 | 0.0062 (J) | 0.0111 (J) | <0.03 | | | |
| 9/21/2016 | | | | 0.0067 (J) | <0.03 | 0.0074 (J) |
| 11/7/2016 | 0.0057 (J) | 0.0097 (J) | <0.03 | | <0.03 | 0.0057 (J) |
| 11/8/2016 | | | | 0.0072 (J) | | |
| 1/18/2017 | 0.0066 (J) | 0.01 (J) | | 0.0067 (J) | <0.03 | |
| 1/19/2017 | | | <0.03 | | | 0.0055 (J) |
| 2/21/2017 | 0.0067 (J) | | | | <0.03 | |
| 2/22/2017 | | | <0.03 | 0.0064 (J) | | 0.0063 (J) |
| 2/23/2017 | | 0.0099 (J) | | | | |
| 5/5/2017 | | | | 0.007 (J) | <0.03 | |
| 5/8/2017 | 0.007 (J) | 0.0086 (J) | <0.03 | | | 0.0066 (J) |
| 6/30/2017 | | 0.0108 (J) | <0.03 | | | |
| 7/5/2017 | | | | 0.0072 (J) | | 0.0058 (J) |
| 7/7/2017 | | | | | <0.03 | |
| 7/10/2017 | 0.0064 (J) | | | | | |
| 3/29/2018 | | 0.011 (J) | <0.03 | | | 0.0049 (J) |
| 3/30/2018 | 0.0068 (J) | | | 0.007 (J) | <0.03 | |
| 6/11/2018 | | | | | | 0.0064 (J) |
| 6/12/2018 | | | <0.03 | 0.0073 (J) | <0.03 | |
| 6/13/2018 | 0.0071 (J) | 0.014 (J) | | | | |
| 10/2/2018 | 0.0064 (J) | 0.012 (J) | <0.03 | | | 0.006 (J) |
| 10/3/2018 | | | | 0.0069 (J) | <0.03 | |
| 2/27/2019 | 0.0069 (J) | 0.0096 (J) | <0.03 | 0.0063 (J) | <0.03 | 0.0053 (J) |
| 4/1/2019 | | 0.0082 (J) | <0.03 | 0.0065 (J) | | 0.0052 (J) |
| 4/2/2019 | 0.0064 (J) | | | | <0.03 | |
| 9/25/2019 | 0.0073 (J) | | | | | 0.0057 (J) |
| 9/26/2019 | | 0.0075 (J) | <0.03 | 0.0064 (J) | <0.03 | |
| 2/13/2020 | 0.0073 (J) | 0.0079 (J) | <0.03 | 0.0069 (J) | <0.03 | 0.0057 (J) |
| 3/19/2020 | | | | 0.007 (J) | <0.03 | |
| 3/20/2020 | 0.0072 (J) | 0.0091 (J) | <0.03 | | | 0.0051 (J) |
| 9/24/2020 | 0.0074 (J) | 0.0075 (J) | <0.03 | 0.0065 (J) | <0.03 | 0.005 (J) |
| 2/10/2021 | 0.0067 (J) | 0.0067 (J) | 0.00081 (J) | | | |
| 2/11/2021 | | | | 0.007 (J) | | |
| 2/12/2021 | | | | | 0.0053 (J) | <0.03 |
| 3/3/2021 | 0.0077 (J) | 0.0066 (J) | <0.03 | 0.0063 (J) | <0.03 | 0.0054 (J) |
| 8/20/2021 | 0.0079 (J) | 0.0066 (J) | 0.0013 (J) | 0.0072 (J) | <0.03 | 0.0056 (J) |
| 2/8/2022 | | | <0.03 | 0.0076 (J) | <0.03 | 0.0064 (J) |
| 2/10/2022 | 0.0086 (J) | 0.0072 (J) | | | | |
| 8/31/2022 | 0.0074 (J) | | | | | |
| 9/1/2022 | | 0.0069 (J) | <0.03 | 0.0066 (J) | <0.03 | 0.0051 (J) |
| 2/8/2023 | | | | | | 0.012 (J) |
| 2/9/2023 | 0.0075 (J) | 0.0069 (J) | <0.03 | 0.0066 (J) | <0.03 | |
| 8/2/2023 | | | | | | 0.013 (J) |
| 8/16/2023 | | | | 0.0058 (J) | <0.03 | |
| 8/17/2023 | 0.0077 (J) | 0.0067 (J) | <0.03 | | | |
| 2/21/2024 | | 0.007 (J) | <0.03 | 0.0056 (J) | <0.03 | |
| 2/22/2024 | 0.0078 (J) | | | | | 0.0051 (J) |
| Mean | 0.00706 | 0.008648 | 0.02768 | 0.006772 | 0.02901 | 0.00678 |

ND substitution: RL or RL/2 if <15% NDs.

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWC-29IB |
|---|---|---|---|---|---|---|
| Std. Dev. | 0.0006305 | 0.002002 | 0.008015 | 0.0004818 | 0.00494 | 0.002629 |
| Upper Lim. | 0.007374 | 0.009528 | 0.03 | 0.007012 | 0.03 | 0.0066 |
| Lower Lim. | 0.006746 | 0.007614 | 0.0013 | 0.006532 | 0.0053 | 0.0053 |

# Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-27I | YGWC-27S | YGWC-28I | YGWC-28S | YGWC-29IB |
|---|---|---|---|---|---|---|---|
| 6/8/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | | |
| 6/9/2016 | | | | | <0.0002 (*) | <0.0002 (*) | <0.0002 (*) |
| 8/1/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | | |
| 8/2/2016 | | | | | <0.0002 | <0.0002 | <0.0002 |
| 9/20/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | | |
| 9/21/2016 | | | | | <0.0002 | <0.0002 | <0.0002 |
| 11/7/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | <0.0002 | <0.0002 |
| 11/8/2016 | | | | | <0.0002 | | |
| 1/18/2017 | <0.0002 | <0.0002 | <0.0002 | | <0.0002 | <0.0002 | |
| 1/19/2017 | | | | <0.0002 | | | <0.0002 |
| 2/21/2017 | <0.0002 | <0.0002 | | | | <0.0002 | |
| 2/22/2017 | | | | <0.0002 | <0.0002 | | <0.0002 |
| 2/23/2017 | | | <0.0002 | | | | |
| 5/3/2017 | | <0.0002 | | | | | |
| 5/5/2017 | | | | | <0.0002 | <0.0002 | |
| 5/8/2017 | <0.0002 | | <0.0002 | <0.0002 | | | <0.0002 |
| 6/30/2017 | | | <0.0002 (*) | <0.0002 (*) | | | |
| 7/5/2017 | | | | | <0.0002 | | <0.0002 |
| 7/7/2017 | | | | | | <0.0002 | |
| 7/10/2017 | <0.0002 | <0.0002 | | | | | |
| 3/29/2018 | | | <0.0002 | <0.0002 | | | <0.0002 |
| 3/30/2018 | <0.0002 | <0.0002 | | | <0.0002 | <0.0002 | |
| 2/27/2019 | 5.1E-05 (J) | 4.9E-05 (J) | 5.4E-05 (J) | 4.9E-05 (J) | 4.8E-05 (J) | 5.2E-05 (J) | 4.7E-05 (J) |
| 4/1/2019 | | | 4.5E-05 (J) | 4.1E-05 (J) | <0.0002 | | 3.9E-05 (J) |
| 4/2/2019 | 5.1E-05 (J) | 6.6E-05 (J) | | | | <0.0002 | |
| 9/25/2019 | <0.0002 | <0.0002 | | | | | <0.0002 |
| 9/26/2019 | | | <0.0002 | <0.0002 | <0.0002 | <0.0002 | |
| 2/13/2020 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 2/10/2021 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | | |
| 2/11/2021 | | | | | <0.0002 | | |
| 2/12/2021 | | | | | | <0.0002 | <0.0002 |
| 2/8/2022 | | | | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 2/10/2022 | <0.0002 | <0.0002 | <0.0002 | | | | |
| 8/31/2022 | <0.0002 | <0.0002 | | | | | |
| 9/1/2022 | | | <0.0002 | 0.00019 (J) | <0.0002 | <0.0002 | <0.0002 |
| 2/8/2023 | | | | | | | <0.0002 |
| 2/9/2023 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | |
| 8/2/2023 | | | | | | | <0.0002 |
| 8/16/2023 | | | | | <0.0002 | <0.0002 | |
| 8/17/2023 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | | |
| 2/21/2024 | | | <0.0002 | <0.0002 | <0.0002 | <0.0002 | |
| 2/22/2024 | <0.0002 | <0.0002 | | | | | <0.0002 |
| Mean | 0.0001843 | 0.000185 | 0.0001842 | 0.0001832 | 0.000192 | 0.0001922 | 0.0001835 |
| Std. Dev. | 4.698E-05 | 4.502E-05 | 4.748E-05 | 4.876E-05 | 3.487E-05 | 3.395E-05 | 4.952E-05 |
| Upper Lim. | 0.0002 | 0.0002 | 0.0002 | 0.0002 | 0.0002 | 0.0002 | 0.0002 |
| Lower Lim. | 5.1E-05 | 6.6E-05 | 5.4E-05 | 0.00019 | 4.8E-05 | 5.2E-05 | 4.7E-05 |

ND substitution: RL or RL/2 if <15% NDs.

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

| | YGWC-27I | YGWC-28I | YGWC-28S | YGWC-29IB |
|---|---|---|---|---|
| 6/8/2016 | 0.0011 (J) | | | |
| 6/9/2016 | | 0.0011 (J) | <0.01 | <0.01 |
| 8/1/2016 | 0.0018 (J) | | | |
| 8/2/2016 | | 0.0014 (J) | 0.0006 (J) | <0.01 |
| 9/20/2016 | <0.01 | | | |
| 9/21/2016 | | <0.01 | <0.01 | <0.01 |
| 11/7/2016 | <0.01 | | <0.01 | <0.01 |
| 11/8/2016 | | <0.01 | | |
| 1/18/2017 | <0.01 | <0.01 | <0.01 | |
| 1/19/2017 | | | | <0.01 |
| 2/21/2017 | | | <0.01 | |
| 2/22/2017 | | <0.01 | | <0.01 |
| 2/23/2017 | <0.01 | | | |
| 5/5/2017 | | 0.0014 (J) | 0.0007 (J) | |
| 5/8/2017 | 0.0011 (J) | | | <0.01 |
| 6/30/2017 | <0.01 | | | |
| 7/5/2017 | | 0.0014 (J) | | <0.01 |
| 7/7/2017 | | | <0.01 | |
| 3/29/2018 | <0.01 | | | <0.01 |
| 3/30/2018 | | <0.01 | <0.01 | |
| 6/11/2018 | | | | <0.01 |
| 6/12/2018 | | <0.01 | <0.01 | |
| 6/13/2018 | <0.01 | | | |
| 10/2/2018 | <0.01 | | | <0.01 |
| 10/3/2018 | | <0.01 | <0.01 | |
| 2/27/2019 | <0.01 | <0.01 | <0.01 | <0.01 |
| 4/1/2019 | <0.01 | <0.01 | | <0.01 |
| 4/2/2019 | | | <0.01 | |
| 9/25/2019 | | | | <0.01 |
| 9/26/2019 | 0.0013 (J) | 0.0013 (J) | <0.01 | |
| 2/13/2020 | 0.0014 (J) | 0.0013 (J) | <0.01 | <0.01 |
| 3/19/2020 | | 0.0014 (J) | <0.01 | |
| 3/20/2020 | 0.0014 (J) | | | <0.01 |
| 9/24/2020 | 0.0015 (J) | 0.0012 (J) | 0.00075 (J) | <0.01 |
| 2/10/2021 | 0.0016 (J) | | | |
| 2/11/2021 | | 0.0012 (J) | | |
| 2/12/2021 | | | <0.01 | 0.00083 (J) |
| 3/3/2021 | 0.0017 (J) | 0.0011 (J) | 0.00083 (J) | <0.01 |
| 8/20/2021 | 0.0042 (J) | 0.001 (J) | <0.01 | <0.01 |
| 2/8/2022 | | 0.0011 (J) | 0.00082 (J) | <0.01 |
| 2/10/2022 | 0.0018 (J) | | | |
| 9/1/2022 | 0.0016 (J) | 0.001 (J) | <0.01 | <0.01 |
| 2/8/2023 | | | | 0.00099 (J) |
| 2/9/2023 | 0.0019 (J) | 0.0014 (J) | 0.00083 (J) | |
| 8/2/2023 | | | | <0.01 |
| 8/16/2023 | | 0.0016 (J) | 0.00077 (J) | |
| 8/17/2023 | 0.0016 (J) | | | |
| 2/21/2024 | 0.0015 (J) | 0.0013 (J) | 0.00068 (J) | |
| 2/22/2024 | | | | <0.01 |
| Mean | 0.00502 | 0.004408 | 0.007039 | 0.009273 |
| Std. Dev. | 0.004187 | 0.004283 | 0.004405 | 0.002517 |
| Upper Lim. | 0.01 | 0.01 | 0.01 | 0.01 |

ND substitution: RL or RL/2 if <15% NDs.

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

| | YGWC-27I | YGWC-28I | YGWC-28S | YGWC-29IB |
|---|---|---|---|---|
| Lower Lim. | 0.0015 | 0.0012 | 0.00082 | 0.00099 |

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26I | YGWC-26S | YGWC-28I | YGWC-28S |
|---|---|---|---|---|
| 6/8/2016 | 0.0016 | 0.0003 (J) | | |
| 6/9/2016 | | | <0.005 | <0.005 |
| 8/1/2016 | 0.0023 (J) | 0.0014 (J) | | |
| 8/2/2016 | | | <0.005 | <0.005 |
| 9/20/2016 | 0.0022 (J) | <0.005 | | |
| 9/21/2016 | | | <0.005 | 0.001 (J) |
| 11/7/2016 | 0.0017 (J) | <0.005 | | <0.005 |
| 11/8/2016 | | | <0.005 | |
| 1/18/2017 | 0.002 (J) | 0.0012 (J) | <0.005 | <0.005 |
| 2/21/2017 | 0.0018 (J) | 0.0014 (J) | | <0.005 |
| 2/22/2017 | | | 0.0012 (J) | |
| 5/3/2017 | | <0.005 | | |
| 5/5/2017 | | | <0.005 | <0.005 |
| 5/8/2017 | <0.01 | | | |
| 7/5/2017 | | | <0.005 | |
| 7/7/2017 | | | | <0.005 |
| 7/10/2017 | 0.002 (J) | <0.005 | | |
| 3/30/2018 | <0.01 | <0.005 | <0.005 | <0.005 |
| 2/27/2019 | 0.002 (J) | <0.005 | <0.005 | <0.005 |
| 4/1/2019 | | | <0.005 | |
| 4/2/2019 | 0.0017 (J) | <0.005 | | <0.005 |
| 9/25/2019 | 0.0019 (J) | <0.005 | | |
| 9/26/2019 | | | <0.005 | <0.005 |
| 2/13/2020 | 0.0019 (J) | <0.005 | <0.005 | <0.005 |
| 3/19/2020 | | <0.005 | <0.005 | <0.005 |
| 3/20/2020 | 0.0019 (J) | | | |
| 9/24/2020 | 0.0031 (J) | <0.005 | <0.005 | <0.005 |
| 2/10/2021 | 0.0026 (J) | <0.005 | | |
| 2/11/2021 | | | <0.005 | |
| 2/12/2021 | | | | <0.005 |
| 3/2/2021 | | <0.005 | | |
| 3/3/2021 | 0.0034 (J) | | <0.005 | <0.005 |
| 8/19/2021 | | <0.005 | | |
| 8/20/2021 | 0.0026 (J) | | <0.005 | <0.005 |
| 2/8/2022 | | | <0.005 | <0.005 |
| 2/10/2022 | 0.0042 (J) | <0.005 | | |
| 8/31/2022 | 0.0036 (J) | <0.005 | | |
| 9/1/2022 | | | <0.005 | <0.005 |
| 2/9/2023 | 0.0042 (J) | <0.005 | <0.005 | <0.005 |
| 8/16/2023 | | | <0.005 | <0.005 |
| 8/17/2023 | 0.0046 (J) | <0.005 | | |
| 2/21/2024 | | | <0.005 | <0.005 |
| 2/22/2024 | 0.0041 (J) | <0.005 | | |
| Mean | 0.002843 | 0.004317 | 0.004835 | 0.004826 |
| Std. Dev. | 0.001158 | 0.001533 | 0.0007924 | 0.0008341 |
| Upper Lim. | 0.003234 | 0.005 | 0.005 | 0.005 |
| Lower Lim. | 0.002153 | 0.0014 | 0.0012 | 0.001 |

ND substitution: RL or RL/2 if <15% NDs.

# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

| | YGWC-26S | YGWC-27S | YGWC-29IB |
|---|---|---|---|
| 6/8/2016 | <0.001 | 0.00012 (J) | |
| 6/9/2016 | | | <0.001 |
| 8/1/2016 | <0.001 | 0.0001 (J) | |
| 8/2/2016 | | | <0.001 |
| 9/20/2016 | <0.001 | <0.001 | |
| 9/21/2016 | | | <0.001 |
| 11/7/2016 | <0.001 | <0.001 | <0.001 |
| 1/18/2017 | <0.001 | | |
| 1/19/2017 | | <0.001 | <0.001 |
| 2/21/2017 | <0.001 | | |
| 2/22/2017 | | <0.001 | <0.001 |
| 5/3/2017 | <0.001 | | |
| 5/8/2017 | | 0.0001 (J) | <0.001 |
| 6/30/2017 | | 0.0001 (J) | |
| 7/5/2017 | | | <0.001 |
| 7/10/2017 | <0.001 | | |
| 3/29/2018 | | <0.001 | <0.001 |
| 3/30/2018 | <0.001 | | |
| 2/27/2019 | <0.001 | <0.001 | <0.001 |
| 2/13/2020 | 5.7E-05 (J) | 0.0001 (J) | <0.001 |
| 3/19/2020 | 5.5E-05 (J) | | |
| 3/20/2020 | | 0.00011 (J) | <0.001 |
| 9/24/2020 | <0.001 | <0.001 | <0.001 |
| 2/10/2021 | <0.001 | <0.001 | |
| 2/12/2021 | | | <0.001 |
| 2/8/2022 | | <0.001 | <0.001 |
| 2/10/2022 | <0.001 | | |
| 8/31/2022 | <0.001 | | |
| 9/1/2022 | | <0.001 | <0.001 |
| 2/8/2023 | | | 0.00021 (J) |
| 2/9/2023 | <0.001 | <0.001 | |
| 8/2/2023 | | | <0.001 |
| 8/17/2023 | <0.001 | <0.001 | |
| 2/21/2024 | | <0.001 | |
| 2/22/2024 | <0.001 | | <0.001 |
| Mean | 0.0009006 | 0.0007174 | 0.0009584 |
| Std. Dev. | 0.0002976 | 0.0004274 | 0.0001812 |
| Upper Lim. | 0.001 | 0.001 | 0.001 |
| Lower Lim. | 5.7E-05 | 0.00011 | 0.00021 |

ND substitution: RL or RL/2 if <15% NDs.