

# 2022/2023 Annual Groundwater Monitoring Report

Columbia Fuel Fabrication Facility  
Hopkins, Richland County, South Carolina

Westinghouse Electric Company, LLC

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## Quality information

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## Acronyms

AECOM	AECOM Technical Services, Inc.
AOC	Area of Concern
CA	Consent Agreement
CFFF	Columbia Fuel Fabrication Facility
cis-1,2 DCE	cis-1,2-dichloroethene
COPC	constituent(s) of potential concern
CVOC	chlorinated volatile organic compound
DHEC	South Carolina Department of Health and Environmental Control
EPA	United States Environmental Protection Agency
µg/L	micrograms per liter
MCL	maximum contaminant level
MDC	minimum detectable concentration
mg/L	milligram per liter
MSL	mean sea level
NPDES	National Pollution Discharge Elimination System
OU	Operational Unit
PCE	tetrachloroethylene
pCi/L	picocuries per liter
RI	remedial investigation
SCRDI	SCRDI Bluff Road
Tc-99	Technetium-99
TCE	trichloroethylene
U	uranium
VC	vinyl chloride
Westinghouse	Westinghouse Electric Company, LLC
WLII	West Lagoon II
WWTP	wastewater treatment plant

## 1. Introduction

Westinghouse Electric Company, LLC (Westinghouse) Columbia Fuel Fabrication Facility (CFFF) is located at 5801 Bluff Road (site or property) in Hopkins, approximately 15 miles southeast of Columbia, South Carolina (**Figure 1**). The site includes approximately 1,151 acres, with the developed area encompassing approximately 75 acres centrally located on the site, thereby creating substantial buffers from adjoining properties. The property is surrounded by rural forested and agricultural property. CFFF was opened in 1969 and manufactures fuel assemblies and components for the commercial nuclear power industry. Site features are shown on **Figure 2** and monitoring well locations are displayed on **Figure 3**.

On February 26, 2019, the South Carolina Department of Health and Environmental Control (DHEC) and CFFF entered into Consent Agreement (CA) 19-02-HW to comprehensively assess potential environmental impacts from current and historical operations, including additional assessment of known impacts. The CA requires further assessment and potential remediation of known constituents of potential concern (COPC) and assessment of additional areas where releases may have occurred.

Remedial investigation (RI) work was conducted by AECOM Technical Services, Inc. (AECOM) from June 2019 through October 2022 to assess the source, nature, and extent of impacts from CFFF operations. This work resulted in the installation of 57 additional surficial aquifer monitoring wells (W-69 through W-126), one replacement monitoring well W-4R, and one piezometer (PZ-1). The source, nature and extent of these impacts were well defined by the RI, remain well within the facility property boundary and are anticipated to remain within the property boundary for the foreseeable future. No additional or ongoing releases were identified during the RI. The final Remedial Investigation report was submitted to DHEC on February 28, 2023 (AECOM, 2023).

In addition to the comprehensive RI assessment completed since 2019, Westinghouse would like to highlight the numerous environmental risk reduction and improvement activities it has undertaken over the past several years. For example, Westinghouse has:

- Eliminated a nickel plating operation;
- Eliminated use of tetrachloroethylene (PCE) and replaced it with a non-hazardous material;
- Completed a Technetium-99 (Tc-99) source investigation study (Leidos, 2020) which determined current site operations do not have the potential to introduce quantities of Tc-99 above its maximum contaminant level (MCL) into the environment;
- Re-designed the HF Spiking Stations;
- Installed a sentinel groundwater monitoring well network in the Chemical Area Operational Unit (OU);
- Removed the intermodal storage containers with radiological materials from the Southern Storage Area and remediated soils impacted above residential screening levels beneath the containers;
- Eliminated sources of potential storm water contamination by removing out of service equipment on the manufacturing building roof;
- Removed the East Lagoon from service, excavated and properly disposed of lagoon materials, and restored the former lagoon footprint to a vegetated surface;
- Established a Community Engagement Board comprised of community stakeholders and leaders;
- Completed a cultural resource survey, approved by the South Carolina Historic Preservation Office, which determined there are no significant historic or cultural resources at the site;
- Completed Sanitary Lagoon sludge characterization activities as preparation for future lagoon closure; and
- Completed seismic upgrades to its Uranyl Nitrate Bulk Storage Tanks.

DHEC also conducted an assessment of potential CFFF impacts to fish in the Congaree River. DHEC's *Uranium and Fluoride in Fish from the Congaree River Technical Report No. 007-2020* dated May 2020 concluded:

"Overall, within the context of the point in time of sample collection, target species and analytical methods, no signal for uranium from the Westinghouse Nuclear Fuels (WNF) facility was discerned. A slight, apparent signal for fluoride was observed from the WNF facility but it was not overall statistically significant from the other locations. The target species, as indicated by the noted limitations, were indicated to be healthy from an ecological viewpoint and safe for human consumption from a public health protection viewpoint."

CFFF also performs routine environmental monitoring of gaseous and liquid effluents, surface water, groundwater, sediment, soil, vegetation and Congaree River fish tissue in addition to the activities being performed under the CA.

The focus of this report is groundwater sampling completed during October 2022 and April 2023 to meet the ongoing groundwater monitoring requirements of the National Pollution Discharge Elimination System (NPDES) Permit SC0001848 and the CA between DHEC and CFFF. Details regarding the groundwater sample collection and QA\QC procedures are contained within the AECOM *Final Remedial Investigation Work Plan* dated June 2019 (AECOM, 2019a).

This report provides an overview of the site (**Section 1**), describes the sampling activities (**Section 2**), and presents the groundwater analytical results (**Section 3**). Analysis of groundwater plume trends and statistics are discussed in **Section 4**. Conclusions and recommendations based on the results are discussed in **Section 5**. Cited references are provided in **Section 6**.

## 1.1 Site Location and Physical Setting

**Figures 1 through 3** illustrate the site features discussed below. The primary plant building is located approximately 2,700 feet southwest of Bluff Road on the northern portion of the property. The wastewater treatment plant (WWTP) is located near the southwest corner of the plant building. Treated wastewater is piped to the Congaree River where it is discharged under NPDES permit SC0001848 from a diffuser located along the bottom of the river at a location approximately 3 miles south of the developed portion of the property.

The SCRDI Bluff Road site (formerly known as South Carolina Recycling and Disposal, Inc.) is located across Bluff Road from the northern property boundary. According to information on the internet (Justia US Law – law.justia.com, 2017), hazardous waste storage began on this property in late-1973 or early-1974, and operations ceased in 1982. This property was placed on the United States Environmental Protection Agency's (EPA) Superfund program's National Priority List in 1983. Releases at SCRDI are not known to have impacted CFFF.

The developed area of the property is approximately 130-140 feet above mean sea level (MSL). Elevations drop to approximately 110 feet above MSL immediately south of the plant/WWTP area, on the Congaree River floodplain and Mill Creek, a tributary of the Congaree River. The change in elevation occurs abruptly along a bluff that defines the southern edge of the developed portion of the property.

The Gator Pond is a manmade pond constructed prior to CFFF's development of the site. It is located approximately 500 feet southwest of the WWTP within a step-down area of the bluff (**Figures 2 and 3**). The pond does not have a constructed spillway and is fed by a combination of groundwater and precipitation. Water discharges from the pond through groundwater seepage or overland flow during periods of high precipitation.

Upper and Lower Sunset Lakes are located west and south of the Gator Pond and approximately 900 feet southwest of the WWTP (**Figures 2 and 3**). The Sunset Lakes are located within a natural oxbow of Mill Creek. A manmade dam approximately 1,700 feet south of the WWTP backs up water in Mill Creek, creating Lower Sunset Lake. A second manmade dam cuts across Mill Creek approximately 1,000 feet southwest of the WWTP, creating Upper Sunset Lake. The majority of the Mill Creek flow is diverted away from Sunset Lakes via the man-made canal (**Figure 2**) along the southern property boundary. A silty clay lines the bottom of Mill Creek, including Sunset Lakes, which inhibits the interaction of groundwater and surface water.

The southern portion of the property, including the Gator Pond, Mill Creek, and the Sunset Lakes are located within the floodplain of the Congaree River. Surface drainage at the site flows into several stormwater ditches across the property and surrounding areas. These ditches flow into Upper Sunset Lake.

## 1.2 Site Operational Background

The main manufacturing activity is the fabrication of low-enriched uranium (U) fuel assemblies and components for the commercial nuclear power industry. The manufacturing process generates multiple wastewater streams which are treated by various physical/chemical/biological processes including WWTP lagoons prior to discharge to the Congaree River under a NPDES permit issued by DHEC.

Releases of COPCs have occurred from the wastewater treatment system and manufacturing operations. CFFF has: assessed known releases, installed an extensive groundwater monitoring network (beginning in the early 1980s) and initiated various remediation efforts in response to the historic events. Additional comprehensive site assessment of groundwater, surface water, sediment and soils has also been completed from 2019 – 2022 under the CA. These assessment activities, documented in a *Final Remedial Investigation Report* (AECOM, 2023) approved by DHEC, have concluded that environmental impacts from historical operations are largely confined to the immediate plant area and there are no offsite impacts.

## 1.3 Facility Operational Units

The facility has been divided into eight OUs illustrated on **Figure 4** in recognition of the different types of site activities and potential sources of impact. The OUs are identified as the Northern Storage Area, Mechanical Area of the plant building, Chemical Area of the plant building, West Lagoons Area, Wastewater Treatment Area, Sanitary Lagoon Area, Southern Storage Area and Western Storage Area. One area of concern (AOC), the “Western Groundwater AOC,” was previously identified; however, work conducted during the RI concluded the groundwater impact in this area is part of the main chlorinated volatile organic compound (CVOC) plume. These OUs and the AOC were described in detail in the *Final Remedial Investigation Work Plan* dated June 2019 (AECOM, 2019a).

## 1.4 Geology and Hydrogeology

The CFFF is located in the Upper Coastal Plain physiographic province of South Carolina and is underlain by three hydrogeologic units: the surficial aquifer, Black Creek Aquifer, and Middendorf Aquifer.

Groundwater in the surficial aquifer occurs under unconfined (water table) conditions and generally flows from areas of higher topography in the vicinity of the plant building towards areas of lower topography in the floodplain of the Congaree River along Mill Creek. Although the river terrace sediment above and below the bluff were deposited during different time periods according to the Geologic Map of the Fort Jackson South Quadrangle (South Carolina Department of Natural Resources, 2011), the deposits are of similar lithology and are hydraulically connected based on data collected during the RI.

Surficial aquifer sediments generally occur to a depth of 30 to 40 feet below land surface, both above and below the bluff, and consist of clay, silt or silty sand at the surface coarsening downward to coarse sand and gravel on top of the Black Creek confining clay. Silt and clay lenses and lower permeability silty or clayey sands occur at varying depths with the coarsening downward sands of the surficial aquifer. One notable surficial aquifer total thickness anomaly was discovered during Phase I of the RI near the location of paired monitoring wells W-95 and W-111 (**Figure 3**) where there is over 80 feet of sediment above the Black Creek confining clay. Further assessment of this anomaly was performed during Phase II of the RI and indicated that the incisement into the Black Creek confining clay is localized to this area.

The elevation of the top of the Black Creek confining clay is undulating but is generally highest west of the plant building in the developed portion of the property and decreases radially in all directions with the lowest elevations being within the floodplain.

Groundwater monitoring wells were installed at differing depths to assess COPC migration within the surficial aquifer. Monitoring wells installed near the top or in the central portion of the surficial aquifer are designated as surficial aquifer - upper zone monitoring wells, whereas wells installed on top of or within 5 feet of the Black Creek confining clay are designated as surficial aquifer - lower zone monitoring wells. One exception to the criteria above is

monitoring well W-95. This well is designated as a surficial aquifer – lower zone monitoring well because CVOCs migrating within the lower zone of the surficial aquifer are detected in groundwater from it and the Black Creek Formation is anomalously deep at this location.

There is a dynamic relationship between surface water in the ditches that transect the site above the bluff and groundwater in the upper zone of the surficial aquifer. The ditches continually or intermittently receive discharge of groundwater from the upper zone of the surficial aquifer depending on the elevation of the water table. The northern portions of the ditches are above the elevation of the seasonal high water table and thus the ditches at these locations are often dry. Runoff from precipitation that enters the dry portions of the ditches may infiltrate to the water table, temporarily recharging the surficial aquifer. Wetlands along the northern side of Bluff Road are also a source of surface water in the northern portion of the Eastern Ditch during high precipitation months. The southern portions of the ditches where the ditches are deeply incised are below the water table and groundwater discharges to these portions of the ditches throughout the year. Middle portions of the ditches may recharge the shallow aquifer during low water table conditions and may receive groundwater discharge during high water table conditions. Discharge of groundwater to the deeply incised portions of the ditches appears to influence groundwater flow and COPC migration within the upper zone of the surficial aquifer.

The predominant direction of groundwater flow in the surficial aquifer is to the southwest with components of flow to the south, southeast, west, and, to a lesser extent, the north. Based upon data collected during the RI, the lower zone of the surficial aquifer near West Lagoon II (WL II) acts as a hydraulic barrier due to low permeability, the Black Creek confining clay has a north-south trending ridge, and groundwater has a westerly component of flow. These factors combined result in groundwater flow and COPC migration in the surficial aquifer in this area to be both northerly and southerly.

The Gator Pond also influences COPC migration as evidenced by COPC impacts in surficial aquifer groundwater migrating in a more easterly or westerly direction in the vicinity of the Gator Pond. This surface water body has a nearly constant elevation which creates a “groundwater mound” that deflects COPC migration to the east and west. Groundwater only discharges to the northeastern portion of the Gator Pond. Lower Sunset Lake also deflects groundwater but to a lesser extent than the Gator Pond because the low permeability clayey silt lining its bottom limits the amount of surface water seeping into the water table thereby creating a smaller “groundwater mound”.

The surficial aquifer is underlain by a confining unit composed of dry silt/clay and brittle shale of the upper Black Creek Formation. Previous well installations (W-3A, W-49 and W-50) and installation of monitoring well W-71 during Phase I of the RI (2019) indicate that the Black Creek confining clay ranges in thickness from 39 to 83 feet. Beneath the clay confining unit is a sand aquifer within the lower Black Creek Formation known as the Black Creek Aquifer. Groundwater flow in the Black Creek Aquifer is inferred to the southwest based upon groundwater elevations from the four monitoring wells that are screened within this aquifer.

The Middendorf Formation occurs below the Black Creek Formation. Sediments of the Middendorf Formation generally consist of multi-colored clay interbedded with fine to coarse grained sand. Subsurface investigations at CFFF have not extended into the Middendorf aquifer since there is no potential that it has been impacted. The Middendorf aquifer is unconformably underlain by bedrock.

Hydraulic characterization by AECOM Technical Services, Inc. (AECOM) estimated the average linear flow velocity in the surficial aquifer to be 0.41 feet per day or 150 feet per year (AECOM, 2023). Low moisture content and vertical hydraulic conductivities of less than  $10^{-7}$  centimeters per second (S&ME, 1982) within the 39 to 83 foot thickness of the Black Creek confining clay preclude migration of groundwater between the surficial aquifer and the Black Creek Aquifer which in turn precludes potential migration to the Middendorf Aquifer.

## 2. Groundwater Monitoring

The current monitoring well network consists of 118 wells which are displayed on **Figure 3**. Construction details of the wells are summarized on **Table 1**. Fall 2022 semiannual sampling activities were completed during October 2022 and Spring 2023 semiannual sampling activities were completed in April 2023 by AECOM and CFFF personnel. After receiving analytical results from the October 2022 groundwater sampling campaign, it was discovered that four PCE and 77 fluoride samples were analyzed out of holding times for their respective analytical methods. Groundwater samples from wells that were within the respective plumes or were plume boundary monitoring wells were resampled in January 2023, resulting in four wells being resampled for PCE and 21 wells being resampled for fluoride to obtain defensible groundwater quality data and verify the accuracy of the fluoride plume boundary. Monitoring activities were conducted in accordance with the requirements of the site's NPDES permit and by the procedures described in the *Final Remedial Investigation Work Plan* (AECOM, 2019a).

The depth to water in the monitoring wells was measured using electronic water level meters on October 3, 2022 and April 3, 2023. The water levels were converted to elevations and used to create potentiometric maps (**Figures 5-10**) of the aquifer zones discussed in **Section 3.1** below.

The monitoring wells were purged by low flow methodology using a peristaltic pump and water levels were monitored during purging. Groundwater quality indicator parameters of pH, specific conductance, dissolved oxygen, oxidation reduction potential, turbidity, and temperature were monitored during the groundwater purging process and recorded on the Groundwater Sampling Logs, which are included in **Appendix A**. AECOM and CFFF personnel have been using iPads and In-Situ's Aqua Troll 600s equipped with Bluetooth technology to electronically collect water quality parameters. Groundwater samples were collected once the parameters had stabilized in accordance with the low-flow sampling procedure in the *Final Remedial Investigation Work Plan* (AECOM, 2019a).

Upon collection, groundwater samples were labeled, preserved on ice, and kept under chain-of-custody protocol until received at the analytical laboratory. The groundwater samples were analyzed by one of the following DHEC certified laboratories: 1) Pace Analytical Services, LLC (formerly known as Shealy Environmental Services, Inc.) and 2) GEL Laboratories, LLC as appropriate for the following analyses:

- Volatile organic compounds by EPA Method 8260D;
- Nitrate by EPA Method 353.2;
- Ammonia by EPA Method 350.1;
- Fluoride by EPA Method 9056A;
- Gross Alpha by EPA Method 900.0;
- Gross Beta by EPA Method 900.0;
- Tritium by EPA 906.0 (Modified);
- Isotopic U by DOE EML HASL-300 (U-02-RC Modified);
- Isotopic U by EPA Method 200.8/200.2; and
- Tc-99 via DOE EML HASL-300 (Tc-02-RC Modified).

Laboratory analytical reports and chain-of-custody forms are included in **Appendix B**.

CFFF is transitioning from monitoring groundwater for gross alpha and gross beta to monitoring for isotopic U and Tc-99. Gross alpha and gross beta are typically used as screening parameters because they can represent various radionuclide components. In the past, action levels were established for gross alpha and gross beta whereby additional contingent analyses were initiated for isotopic U and Tc-99 if the action levels were exceeded. Results below the action levels would not have been further speciated, thus calling to question whether the low detection of gross alpha or gross beta was a result of site activities or other circumstances such as natural radionuclide presence. Since renewal of CFFF's Nuclear Regulatory Commission Special Nuclear Material (SNM) license in September 2022, CFFF has continued to monitor gross alpha and gross beta screening parameters but only for the 20 wells specified in the NPDES permit. However, the site reviews speciated results for isotopic U and Tc-99 to evaluate radionuclide impact in groundwater from site operations.

## 3. Results

The following sections summarize the results of the groundwater monitoring performed in October 2022 and April 2023.

### 3.1 Groundwater Flow

The water level measurements on October 3, 2022 and April 3, 2023 were converted to water level elevations using existing monitoring well top-of-casing elevation data and are summarized in **Table 2**. The water level elevations from monitoring wells screened in the upper zone of the surficial aquifer, in the lower zone of the surficial aquifer, and in the Black Creek Aquifer were used to prepare the potentiometric maps for the surficial aquifer and Black Creek Aquifer for the October 2022 and April 2023 monitoring periods (**Figures 5 through 10**).

#### 3.1.1 Surficial Aquifer

Based on the surficial aquifer potentiometric maps for October 3, 2022 and April 3, 2023, groundwater flow in the unconfined upper zone of the surficial aquifer (**Figures 5 and 6**, respectively) and lower zone of the surficial aquifer (**Figures 7 and 8**, respectively) is generally to the southwest with components of flow to the west and south. These surficial aquifer potentiometric contours and flow directions are similar to previous results.

#### 3.1.2 Black Creek Aquifer

Based on the Black Creek Aquifer potentiometric maps for October 3, 2022 and April 3, 2023 (**Figures 9 and 10**, respectively), groundwater flow in the Black Creek Aquifer is to the southwest. The Black Creek Aquifer potentiometric contours and flow directions are similar to previous results.

## 3.2 Groundwater Quality

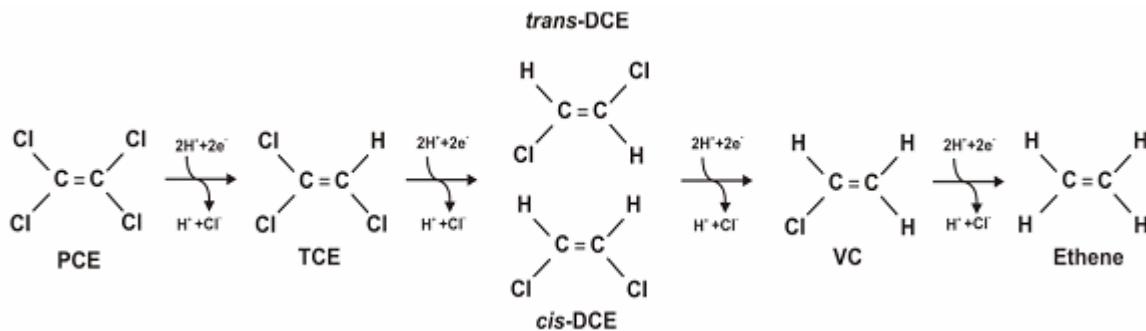
Groundwater sampling indicator parameters measured in the field during the well purging and sampling are presented in Table 3. During the October 2022 groundwater sampling campaign, monitoring wells W-91 contained 0.21 feet of water. Due to the minimal amount of groundwater in this well, the well was unable to be purged so a groundwater sample was not collected. The groundwater sampling logs are included in **Appendix A**. Laboratory analytical reports are included in **Appendix B** and the analytical results for the monitoring wells are summarized in **Table 4**. Historic analytical results are summarized in **Table C-1** which is in **Appendix C**.

In 2020-2021 Annual Groundwater Monitoring Report (AECOM, 2021), plume analytics replaced COPC-specific graphs depicting concentrations over time in select wells. CFFF desires to fully understand trends across the entire groundwater plumes and instructed AECOM to analyze each plume holistically. Plume analytics is a tool to evaluate the entire plume's dynamics versus evaluation at a discrete monitoring location. Plume analytics are discussed in **Section 4** and in **Appendix D**.

Based on the results of the comprehensive RI (AECOM, 2023), COPCs in groundwater are CVOCs, nitrate, fluoride, U, and Tc-99. Currently, there is no evidence that there are ongoing releases of COPCs.

### 3.2.1 Chlorinated Volatile Organic Compounds

Four CVOCs (PCE, trichloroethylene [TCE], cis-1,2-dichloroethene [cis-1,2-DCE], and vinyl chloride [VC]) were detected in the upper and lower zones of the surficial aquifer. Chlorinated ethenes such as PCE can undergo biotic (biological) and abiotic (physical) transformations under both aerobic and anaerobic conditions. Natural, biotic degradation of PCE to produce daughter products at CFFF follows the reductive dechlorination pathway. This pathway is as follows:



(Source: Parsons Corporation, 2004)

CVOCs were not detected in the groundwater samples collected from the Black Creek aquifer monitoring wells.

### 3.2.1.1 Tetrachloroethylene

PCE was detected in groundwater at concentrations at or above its MCL of 5.0 micrograms per liter ( $\mu\text{g/L}$ ) in groundwater from 27 and 26 of the 114 surficial aquifer monitoring wells in October 2022/January 2023 and April 2023 (**Table 4**), respectively. There are two PCE plumes at CFFF contained within the property in the surficial aquifer. These CVOC plumes are generally referred to as the main plume and the southern plume and are depicted on **Figures 11 through 14**. PCE was not detected in groundwater samples from the four Black Creek monitoring wells.

#### Upper Zone of the Surficial Aquifer

**Figures 11 and 12** illustrate the PCE concentrations in the upper zone of the surficial aquifer during the October 2022/January 2023 and April 2023 sampling periods, respectively. The highest PCE concentrations in upper zone of the surficial aquifer wells were from wells W-39, W-41R, and W-66 in the main PCE plume at concentrations ranging from 120  $\mu\text{g/L}$  to 460  $\mu\text{g/L}$ .

The main PCE plume in the upper zone of the surficial aquifer appears to emanate from an area between West Lagoon II (WLII) and the plant building. Work conducted during Phase II of the RI concluded that there is no longer a vadose zone source for this groundwater impact. PCE is no longer used at CFFF; therefore, additional CVOC impacts to groundwater are not possible. As discussed in **Section 1.4**, groundwater and COPCs migrate both to the north and south in the surficial aquifer in the vicinity of WL II before migrating in the predominant southwesterly flow direction. This results in a horseshoe shaped main PCE plume in the surficial aquifer – upper zone.

The southern PCE plume in the surficial aquifer – upper zone is located from the southern extent of the developed area at the bluff and extends to the southeast below the bluff barely into the floodplain near monitoring well W-97. PCE was not formerly used in the vicinity of these wells. It is believed that the PCE in the southern plume in the surficial aquifer - upper zone near the bluff is part of the PCE plume in the surficial aquifer – lower zone, rather than the result of a source in the southern area of the plant near the bluff (AECOM, 2023).

#### Lower Zone of the Surficial Aquifer

**Figures 13 and 14** illustrate the PCE concentrations in the lower zone of the surficial aquifer during the October 2022/January 2023 and April 2023 sampling periods, respectively. The main PCE plume is the only plume present in the lower zone of the surficial aquifer and was observed directly west of the facility in the same area as the main PCE plume observed in the upper zone of the surficial aquifer, however with a greater aerial extent. The highest PCE concentrations in the lower zone of the surficial aquifer was from wells W-33, W-48, W-65, and W-RW2 in the main PCE plume at concentrations ranging from 120  $\mu\text{g/L}$  to 440  $\mu\text{g/L}$ .

The highest PCE concentrations in the main plume in the lower zone of the surficial aquifer appears to emanate from an area between WLII and the plant building and migrates to the north, west, southwest and south resulting in a horseshoe shape similar to the upper zone of the surficial aquifer. Additionally, a third lobe of the main plume in the lower zone of the surficial aquifer containing lower PCE concentrations appears to emanate from the southern end of the plant building. Work conducted during the RI concluded that the Solvent Extraction Area located in the southwestern portion of the plant is the likely source for this PCE impact to groundwater.

### 3.2.1.2 Trichloroethylene

TCE was detected in groundwater at concentrations at or above its MCL of 5.0 µg/L from 12 and 11 of the 114 surficial aquifer monitoring wells in October 2022 and April 2023 (**Table 4**), respectively. There are three TCE plumes at CFFF in the surficial aquifer. These CVOC plumes are generally referred to as the main plume, the northern plume (near the southwest corner of the plant building), and the southern plume. These plumes are depicted on **Figures 15 through 18**. TCE was not detected in groundwater samples from the four Black Creek monitoring wells.

#### Upper Zone of the Surficial Aquifer

The upper zone of the surficial aquifer main and southern TCE plumes are in the same general locations as the corresponding PCE plumes but with a smaller aerial extent during the October 2022 and April 2023 sampling periods (**Figures 15 and 16**, respectively). TCE exceeded the MCL in groundwater samples from monitoring well W-39, W-41R, and W-66 in the main TCE plume during the October 2022 sampling campaign and in monitoring well W-66 during the April 2023 sampling campaign. The northern TCE plume exists as a TCE only plume near the southwestern corner of the plant building where the TCE MCL was exceeded in monitoring wells W-38 (both October 2022 and April 2023). In the southern plume, TCE's MCL was exceeded in groundwater from monitoring well W-67 only. Upper zone TCE concentrations exceeding the MCL in these plume areas ranged from 5.2 µg/L to 18 µg/L.

#### Lower Zone of the Surficial Aquifer

In the lower zone of the surficial aquifer, the main TCE plume was observed directly west of the facility extending in a southwestern direction in the same general location as the main PCE plume (**Figures 17 and 18**, respectively). Groundwater from monitoring wells W-33, W-48 (April 2023 only), W-65, W-87, W-102, and W-RW2 in the main TCE plume contained concentrations of TCE above the MCL. TCE exceeded the MCL in the northern TCE plume in groundwater from monitoring well W-102. The southern plume in the lower zone of the surficial aquifer is represented by TCE MCL exceedances in groundwater from monitoring wells W-103 (April 2023 only) and W-123. The TCE MCL in the lower zone was exceeded in groundwater at concentrations ranging from 5.3 µg/L to 50 µg/L.

### 3.2.1.3 Cis-1,2-Dichloroethene

Concentrations of cis-1,2-dichloroethene (cis-1,2 DCE) did not exceed the MCL of 70 µg/L in groundwater within the monitoring well network in October 2022 and April 2023 (**Table 4**). Cis-1,2-DCE was detected at concentrations ranging from 0.4 µg/L (estimated) to 46 µg/L in groundwater from 25 of the 114 surficial aquifer monitoring wells during both the October 2022 and April 2023 sampling periods.

### 3.2.1.4 Vinyl Chloride

Concentrations of VC exceeded its MCL of 2 µg/L in groundwater from monitoring wells W-95 and W-107 concentrations ranging from 2.7 to 3.4 µg/L during the October 2022 and April 2023 sampling periods (**Figures 19 and 20**, respectively). Both well locations are on the southern side of Upper and Lower Sunset Lakes. The presence of VC in groundwater from these two wells indicates that reductive dechlorination, as described in **Section 3.2.1**, from PCE on the northern side of Sunset Lakes to VC on the southern side is occurring within the floodplain. Concentrations of VC were not detected in groundwater above the bluff.

## 3.2.2 Semivolatile Organic Compounds

Semivolatile organic compounds were not detected in groundwater above MCLs in the monitoring well network (**Table C1** in **Appendix C**).

### 3.2.3 Nitrate

Nitrate was detected in groundwater at concentrations at or above its MCL of 10 milligrams per liter (mg/L) from 24 of and 22 of the 114 surficial aquifer monitoring wells in October 2022 and April 2023 (**Table 4**), respectively. **Figures 21 and 22** illustrate the nitrate concentrations for the October 2022 and April 2023 sampling periods, respectively. The highest nitrate concentrations were observed in the groundwater collected from surficial aquifer – lower zone monitoring well W-18R near the southwest corner of the South Lagoon at concentrations of 380 mg/L and 350 mg/L during the October 2022 and April 2023 sampling periods, respectively.

The aerial extent of the nitrate plume is primarily in the area of the facility WWTP and extends to areas to the west, southwest, and south. Nitrate was detected in groundwater Black Creek Aquifer monitoring wells W-49 and W-71 below its MCL at concentrations of 0.028 mg/L in April 2023 and 0.049 in October 2022, respectively. Nitrate is a naturally occurring compound and the detected concentration in these monitoring wells are orders of magnitude below the MCL indicating that this detection is not the result of facility operations.

### 3.2.4 Fluoride

Fluoride was detected at concentrations at or above its MCL of 4 mg/L in groundwater from 9 of the 114 surficial aquifer monitoring wells in both October 2022/January 2023 and April 2023 (**Table 4**). Fluoride is a naturally occurring element and many of the detected concentrations in groundwater were orders of magnitude below the MCL indicating that these detections are not likely resulting from facility operations. **Figures 23 and 24** illustrate the fluoride concentrations for the October 2022/January 2023 and April 2023 sampling events, respectively.

The greatest fluoride concentrations were observed in the groundwater from upper zone of the surficial aquifer well W-78 at concentrations of 21 mg/L and 16 mg/L during the January 2023 and the April 2023 sampling period, respectively. The fluoride plume exceeding the MCL in the surficial aquifer is primarily south of the plant building and in the vicinity of the WWTP. This plume extends to the south and southwest towards the Upper and Lower Sunset Lakes.

Fluoride was not detected in groundwater from the four Black Creek Aquifer monitoring wells during the October 2022 and April 2023 sampling periods.

### 3.2.5 Uranium

Total U was detected in groundwater at concentrations at or above its MCL of 30 µg/L from 3 of the 114 surficial aquifer monitoring wells in both October 2022 and April 2023 (**Table 4**). The exceedance of the groundwater MCL for U is localized to two areas adjacent to the plant building, one area on the west side of the building near the southwest corner (monitoring wells W-55 and W-56) and another area on the south side of the building (monitoring well W-77). The plume associated with monitoring wells W-55 and W-56 is referred to as the northern plume and the plume associated with monitoring well W-77 is referred to as the southern plume. **Figures 25 and 26** illustrate the total U concentrations detected during the October 2022 and the April 2023 sampling periods, respectively.

The highest total U concentrations of 291 µg/L and 446 µg/L were detected in groundwater from monitoring well W-56 during the October 2022 and April 2023 sampling events, respectively. The next closest downgradient well, monitoring well W-73, is approximately 50 feet away from monitoring well W-56 and contains total U at concentrations slightly above 0.1 µg/L. Similarly, monitoring well W-28 is approximately 50 feet downgradient of monitoring well W-77 and contains U concentrations of 1.64 µg/L and 2.19 µg/L during the October 2022 and April 2023 sampling events, respectively.

U-238 was detected in groundwater from three of the four Black Creek aquifer monitoring wells (W-49, W-50, and W-71) at concentrations below its MCL and below the laboratory minimum detectable concentration (J flagged estimated concentrations) ranging from 0.0673 µg/L to 0.213 µg/L. U occurs naturally in groundwater in South Carolina and U-238 was the only U isotope in the Black Creek wells during the October 2022 and April 2023 groundwater sampling campaigns. A study performed in the Aiken, SC and Augusta, GA area reported an average background groundwater U concentration from private water supply wells of 0.35 µg/L (Westinghouse Savannah River Company, 1992). Another study of state-wide groundwater analytical results from private water supply wells using statistical analysis predicted an average background groundwater U concentration of 1.26 µg/L (Wagner, S.E., et al). Private water supply wells are typically installed in the aquifer below the surficial aquifer (e.g. the Black Creek Aquifer at CFFF). The total U detected in groundwater from the Black Creek wells is typical of regional background concentrations and not likely the result of facility operations.

### 3.2.6 Technetium-99

Tc-99 was detected above its MCL of 900 picocuries per liter (pCi/L) in the groundwater samples collected from two surficial aquifer monitoring wells (W-6 and W-11) in both October 2022 and April 2023. **Figures 27 and 28** illustrate the Tc-99 concentrations detected during the October 2022 and the April 2023 sampling periods, respectively. Tc-99 concentrations detected in groundwater from monitoring wells W-6 and W-11 ranged from 1,530 pCi/L to 2,380 pCi/L

from October 2022 to April 2023. The aerial extent of the Tc-99 exceeding the MCL is within the WWTP area and the Southern Storage Area. The aerial extent of the Tc-99 plume at concentrations below the MCL extends from the WWTP area toward the west, southwest, and southeast. Tc-99 was not detected in groundwater samples from the four Black Creek monitoring wells.

### **3.2.7 Other Monitoring Requirements**

Tritium is not a COPC for the CFFF site. CFFF is a fuel fabrication facility that manufactures nuclear fuel and components which do not contain tritium. Tritium is a byproduct of a nuclear criticality that is produced after the nuclear fuel is irradiated in a nuclear reactor at the CFFF's customer site.

As required by the NPDES permit, CFFF includes analysis for tritium in groundwater samples from 20 monitoring wells. Based on the laboratory results, tritium was not detected above the laboratory minimum detectable concentration (MDC) during any of the 2015-2023 monitoring periods (**Table 4** and **Appendix C**). Concentrations below the MDC cannot be relied upon because they cannot be distinguished from the instrument's background value. The laboratory results further demonstrate that tritium is not present in groundwater at CFFF as the result of fuel manufacturing activities.

## 4. Plume Analytics

The objective of the plume analytics program is to evaluate the behavior over time of COPCs in groundwater that supports evaluation of plume stability and groundwater monitoring and management strategies. Plume analytics assumes a plume is defined and bounded and requires at least four unique time snapshots of a plume as determined by concentration data from a groundwater monitoring well network. Ideally, plume analytics are performed after the investigation phase is complete and groundwater monitoring is ongoing. Once a monitoring well network is established, the network should be evaluated periodically over time to understand plume behavior and generate statistically defensible conclusions about the stability of the plume.

Evaluation of plume behavior is accomplished by defining three plume characteristics, the plume area, the contaminant dissolved mass in the plume, and the average contaminant concentration in the plume over time. Trends in these plume metrics are evaluated over time using the Mann-Kendall statistic test to estimate plume stability. These results are used to assess if a plume is increasing, decreasing, or stable for a specified range of time. When used for long term monitoring, plume analytics can be used to optimize the well network in conjunction with well analytics (evaluating trends in a single well). The results of plume analytics have been integrated into the CFFF conceptual site model for additional support in monitoring network optimization and remediation effectiveness. Additionally, site procedures RA-434, Environmental Data Management and RA-433, Environmental Remediation are followed to ensure any other necessary actions are implemented. Groundwater and other media with environmental impact from historical site operations is being evaluated as part of the Feasibility Study under the CA.

### 4.1 Plume Analytics Methodology

An analysis of plume behavior was performed using the same procedures described in the previous annual report (AECOM, 2022). For this report, concentration data from four groundwater sampling campaigns were evaluated as part of the plume behavior analysis (October 2021, April 2022, October 2022, and April 2023). As required to evaluate trends in plume metrics, a consistent set of groundwater monitoring wells was used to estimate the plume metrics for each sampling event within the evaluation period (2021 to 2023). Use of a consistent well network allows for comparison of plume metrics and evaluation of trends. If sampling locations are not consistent over the evaluation period, the plume metrics could be skewed and result in a less accurate interpretation of the overall plume behavior trends. This year's plume analytics includes the entire groundwater monitoring well network for the first time because the final wells from Phase II of the RI were installed in July 2021.

Temporal trends in concentrations of COPCs in each groundwater monitoring well were not evaluated during this analysis since behavior at individual wells may not be representative of overall plume behavior. For the plume analytics, Surfer® was used to estimate isoconcentration contours for each sampling event and COPC. The contours are used to calculate plume metrics that include the area, dissolved mass, and average concentration within the plume defined by a user-assigned threshold concentration. The MCL for each COPC was used as the threshold concentration. Statistically significant (95% confidence) trends in the plume metrics are estimated using the Mann-Kendall statistic test. The trends in the plume metrics are used to estimate overall plume behavior during the evaluation period. Plume analytics trends are displayed in [Appendix D](#).

### 4.2 Plume Analytics Results

The results of the plume analytics for each COPC are summarized below.

#### PCE

Two plumes (lower and upper zones of the surficial aquifer as described in [Section 3.2.1.1](#)) were evaluated for PCE at its MCL of 5 ug/L. Trends in the plume metrics show that the PCE plumes are primarily stable with a decreasing trend of the plume area in the upper zone and dissolved mass in both the upper and lower zones. The total plume area, mass, and average concentrations are considerably higher (ranging from approximately 20% to over 300%) in the lower zone. This is likely due to the site's vertical gradient being primarily downward and PCE's density being greater than water.

## TCE

Two plumes (lower zone and upper zone as described in **Section 3.2.1.2**) were evaluated for TCE at its MCL of 5 ug/L. Plume metrics for the analyzed parameters (area, mass, and average concentration) were stable in both the upper and lower zones. Similar to PCE, the three plume metrics are much greater in the lower zone than in the upper zone during the evaluation period. TCE is a daughter product of the reductive dechlorination of PCE as shown in Section 3.2.1; therefore, this trend corresponds directly to the PCE plume's metrics.

## Nitrate

The nitrate plume was defined by its MCL of 10 mg/L. The plume metrics for nitrate were stable.

## Fluoride

The fluoride plume was defined by its MCL of 4 mg/L. The fluoride area and average concentration were stable while the plume mass had a decreasing trend.

## Uranium

Two U plumes (northern and southern plumes as described in **Section 3.2.5**) are delineated in groundwater at the MCL of 30 ug/L based on two likely separate and distinct source areas. Because the source areas are beneath the plant building and associated infrastructure, the plume metrics are analyzed as one impacted area. The total area of the two U plumes did not have a statistically significant trend (no trend); however, the average concentration and the dissolved mass are increasing. These increasing trends are based solely on the increasing U concentration from groundwater in monitoring well W-56 in the northern plume. Monitoring wells W-55, W-57 and W-73 are approximately 50 feet north, south and west of monitoring well W-56, respectively. Total U concentrations have been decreasing in monitoring well W-55 over the past four groundwater sampling campaigns (121 ug/L in October 2021 versus 89.6 ug/L in April 2023) while estimated (J value) total U concentrations in both monitoring wells W-57 and W-77 remained approximately two orders of magnitude below the MCL (no impact).

## Tc-99

The Tc-99 plume was defined by its MCL of 900 pCi/L. The Tc-99 plume mass and average concentration were stable while the plume area had a decreasing trend.

## 5. Conclusions and Recommendations

### 5.1 Conclusions

The following conclusions are based upon review of the groundwater monitoring data collected during October 2022 and April 2023 sampling periods:

- Groundwater flow in the unconfined surficial aquifer is generally to the southwest with components of flow to the west and south. These surficial aquifer potentiometric contours and flow directions are similar to previous results. As documented in the RI Report (AECOM, 2023) and **Section 1.4**, the surface water bodies also influence groundwater flow on a localized basis. Groundwater flow in the Black Creek Aquifer is generally to the southwest. The Black Creek Aquifer potentiometric contours and flow directions are similar to previous results.
- CVOCs detected during October 2022 and April 2023 exceeding MCLs were primarily PCE and, to a lesser extent, TCE. Two additional breakdown products of PCE reductive dechlorination, cis-1,2 DCE and VC, were detected in groundwater at the CFFF site at concentrations below the MCL for cis-1,2 DCE and above the MCL for VC. Trans-1,2-Dichloroethene was not detected in groundwater from the monitoring wells.
- The groundwater analytical results indicate that there are PCE and TCE groundwater plumes in the upper and lower zones of the surficial aquifer west and south of the plant building and in the surficial aquifer - upper zone south of the plant building. The CVOC plumes have been referred to as the main plume, southern plume, and northern plume.
- The main CVOC plume appears to emanate from a source(s) between the plant building and WL2. Elevated PCE concentrations in the main CVOC plume extend from the surficial aquifer – upper zone to the surficial aquifer - lower zone. Concentrations of TCE above its MCL occur primarily in the surficial aquifer – lower zone but are documented in the surficial aquifer – upper zone to a lesser extent.
- Nitrate concentrations during October 2022 and April 2023 exceeding MCLs were in areas west, southwest, and south of the WWTP. The highest nitrate concentrations were observed in the groundwater samples collected from surficial monitoring wells south of the South and Sanitary Lagoons of the WWTP.
- Fluoride concentrations during October 2022 and April 2023 exceeding MCLs were in areas south of the plant building and south and southwest of the WWTP. The highest fluoride concentrations were observed in the groundwater samples collected from monitoring well W-78 located south of the plant building.
- U concentrations exceeded the MCL during the October 2022 and April 2023 in three surficial monitoring wells located near the southwest side of the facility building (W-55 and W-56) and one monitoring well (W-77) located near the south end of the building. The exceedance of the U MCL in groundwater is localized near the plant building and is delineated by the existing monitoring well network. Although increasing total U concentrations in monitoring well W-56 resulted in increasing trends for average U concentration and U plume mass in the plume analytics, U impact remains highly localized as evidenced by decreasing U concentrations in monitoring well W-55 and monitoring wells W-57 and W-73 remaining unimpacted.
- Tc-99 concentrations exceeded the MCL during October 2020 and April 2022 in two surficial aquifer – lower zone monitoring wells (W-6 and W-11).
- Based upon historical and current groundwater analytical results and assessment work completed during the RI from June 2019 through October 2022, the source, nature and extent of impacts from historical operations have been well defined. No off-site impacts of COPCs are known to have occurred, the groundwater impacts are fully defined within the central portion of the facility and are anticipated to remain within the property boundary.

### 5.2 Recommendations

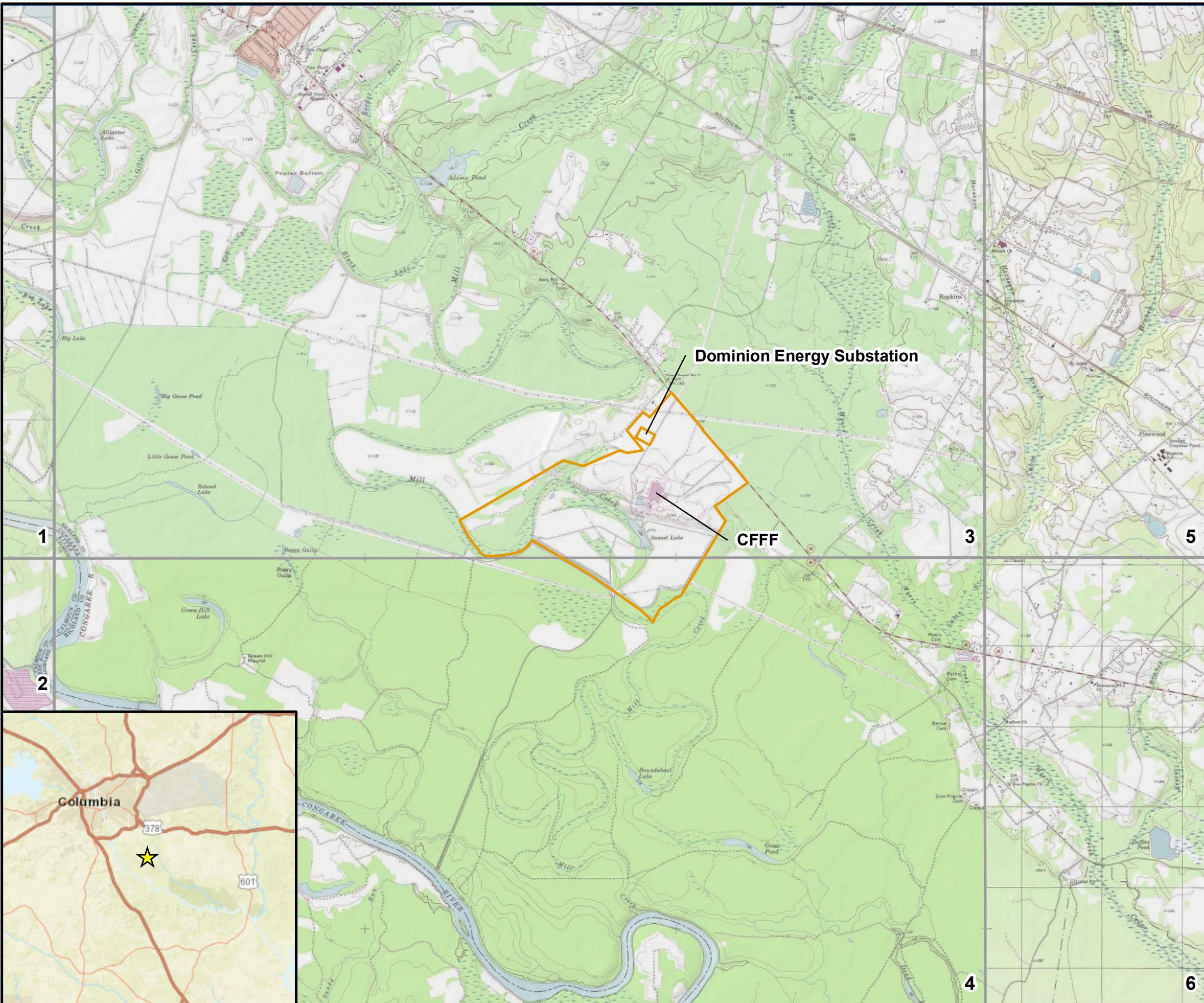
Based upon the above conclusions, continued semiannual monitoring in accordance with the NPDES Permit and systematic completion of the CA is recommended. As additional groundwater quality data is collected from the same monitoring well network, the certainty of the statistical plume analytics trend analyses is expected to improve. Therefore, it is recommended that plume analytics be performed on an annual basis to assess the trends in the plume area, concentration, and plume mass. The next groundwater sampling periods are October 2023 and April 2024.

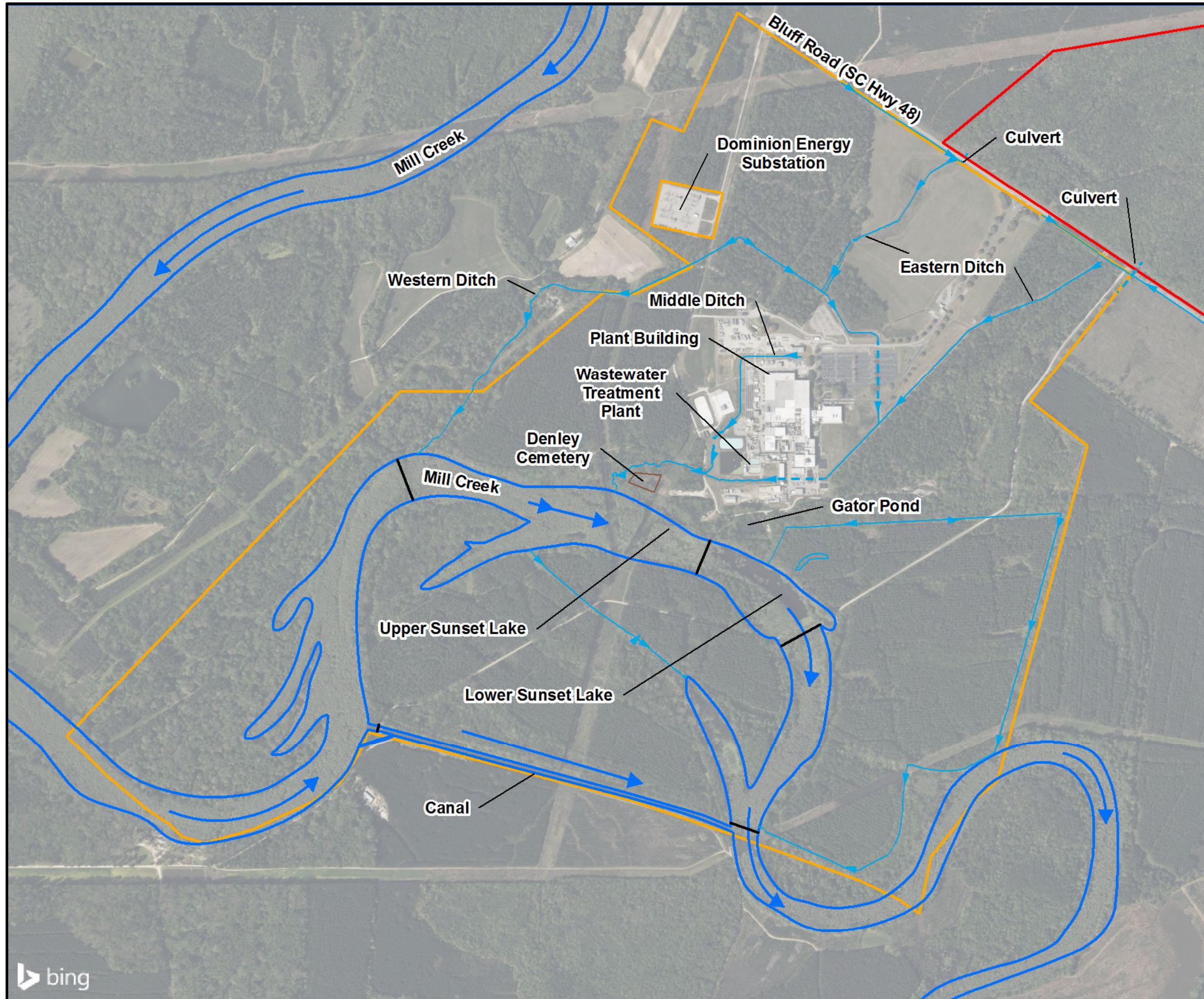
## 6. References

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- AECOM, 2021. 2020/2021 Annual Groundwater Monitoring Report, Columbia Fuel Fabrication Facility, Hopkins, Richland County, South Carolina, Westinghouse Electric Company, LLC, September 2021.
- AECOM, 2022. 2021/2022 Annual Groundwater Monitoring Report, Columbia Fuel Fabrication Facility, Hopkins, Richland County, South Carolina, Westinghouse Electric Company, LLC, September 2022.
- AECOM, 2023. Final Remedial Investigation Report, Columbia Fuel Fabrication Facility, 5801 Bluff Road, Hopkins, Richland County, South Carolina, Westinghouse Electric Company, LLC, February 2023.
- JUSTIA US Law website (USA/SCDHEC vs SCRD et al. lawsuit), <http://law.justia.com/cases/federal/district-courts/FSupp/653/984/2400694/>, reviewed by Mr. Jeremy Grant of AECOM on September 24, 2017.
- Leidos, 2020. Columbia Fuel Fabrication Facility, Tc-99 Source Investigation Report, July 2020.
- S&ME, 1982. Ground-Water Hydrology of the Westinghouse Electric Corporation Plant, Richland County, South Carolina, March 1, 1982.

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## Figures





**Legend**

- Mill Creek Flow Direction
- Ditch
- Culvert
- Property Line
- SCRDI Bluff Road (Superfund Site)
- Mill Creek
- Dike Location

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Feet  
1:12,000

Map Projection: NAD 1983, South Carolina State Plane,  
FIPS 3900, Feet

Datum: North American 1983

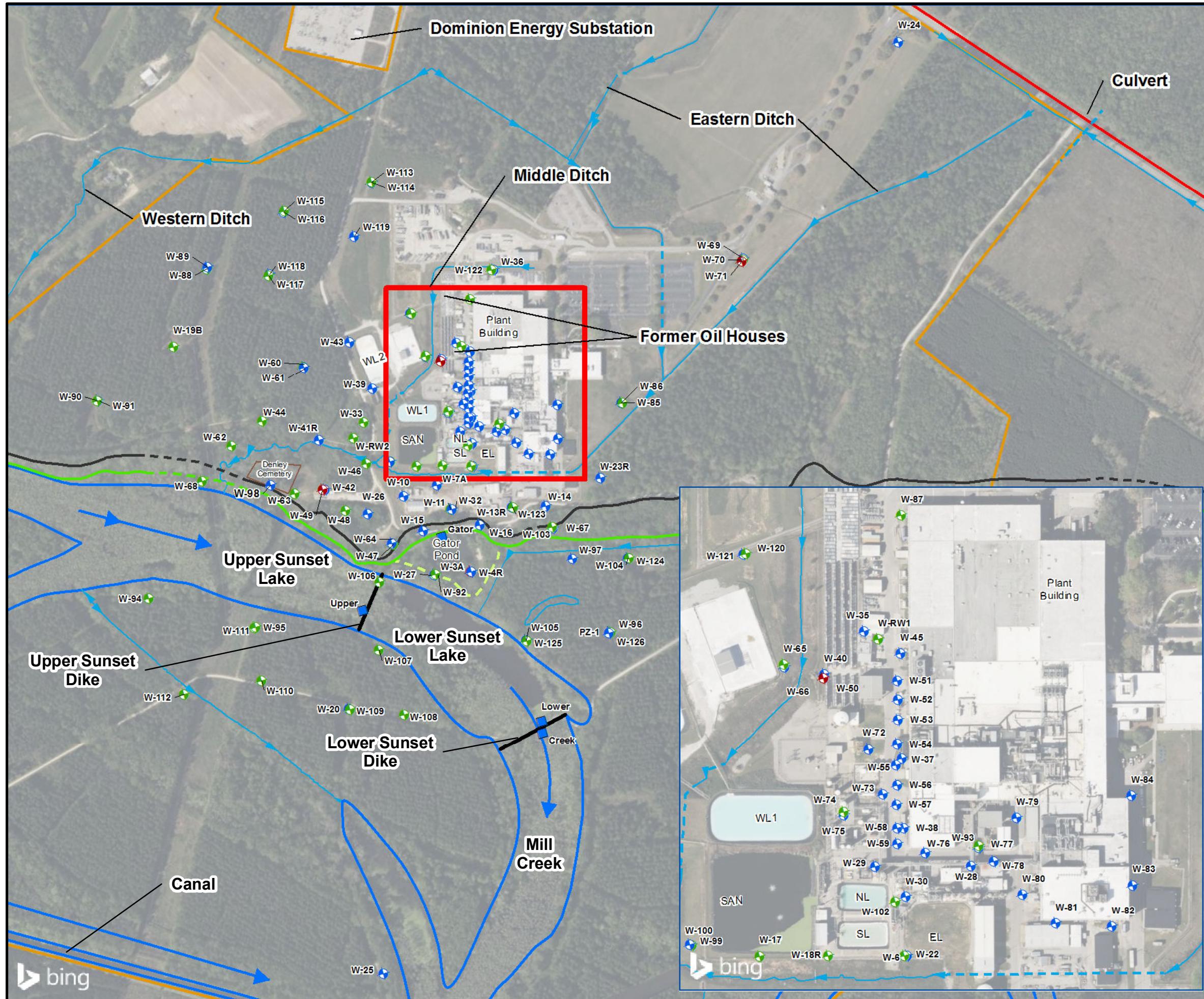
**AECOM**

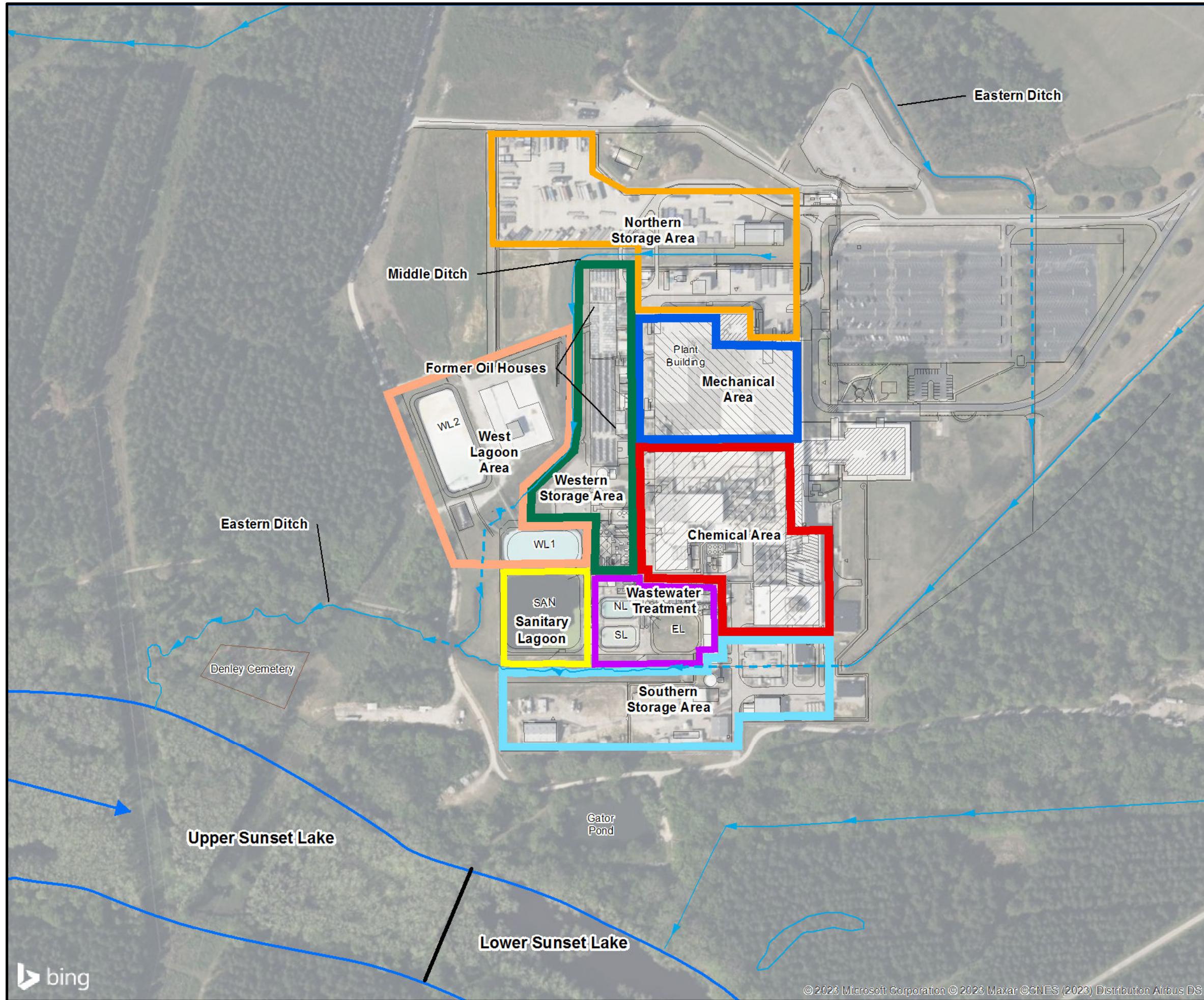
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### Property Map

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY  
HOPKINS, SOUTH CAROLINA

PROJECT NO. 60700386	PREPARED BY: CCS	DATE: August 2023	FIGURE 2
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**Legend**

- Ditch
- Culvert
- Mill Creek Flow Direction
- EL Former East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon I
- WL2 West Lagoon II
- Mill Creek
- Dike Location

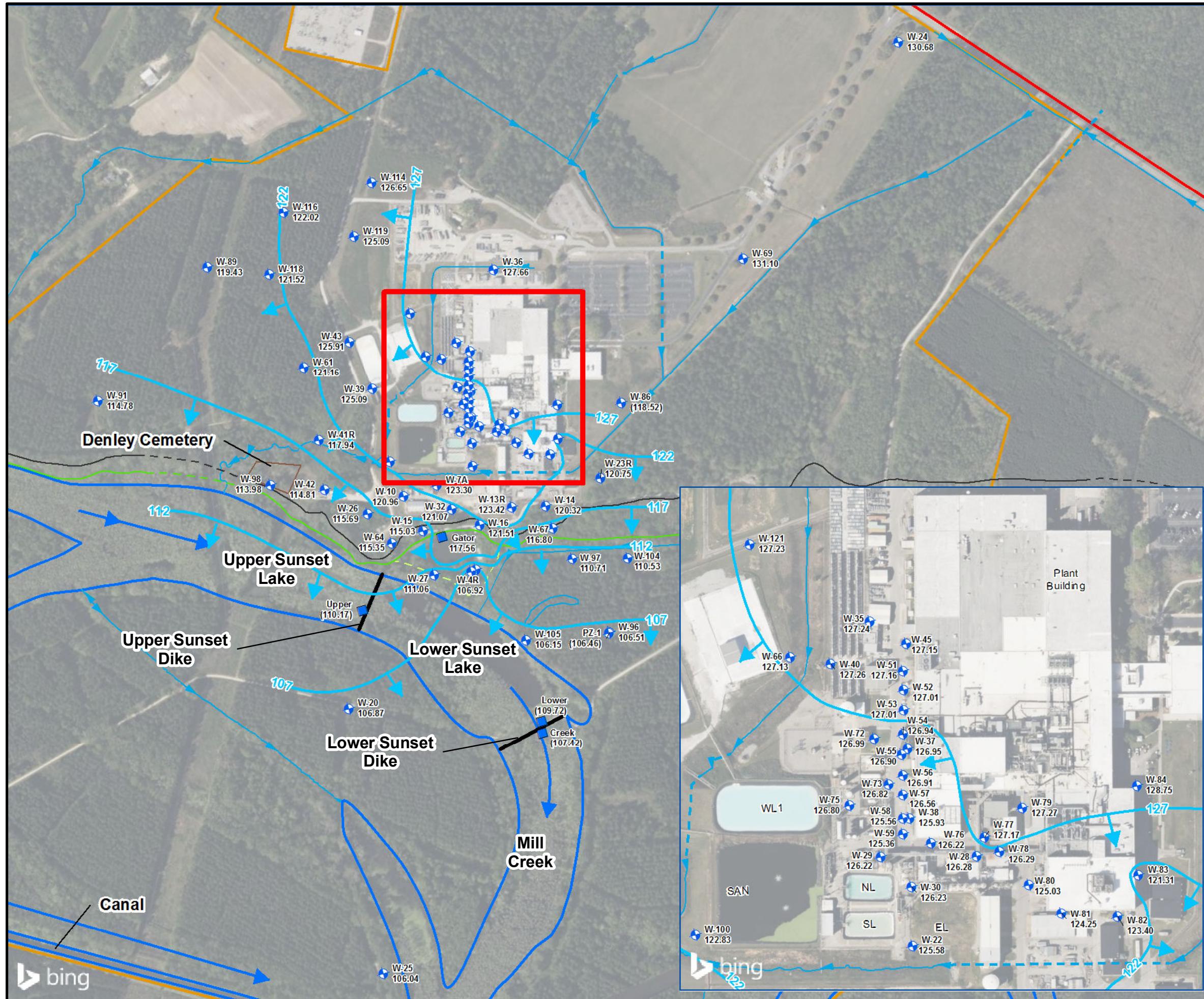
**Operable Units**

Chemical Area
Mechanical Area
Northern Storage Area
Sanitary Lagoon Area
Southern Storage Area
Wastewater Treatment Area
West Lagoons Area
Western Storage Area

0 150 300  
Feet  
1:3,600



PROJECT NO. 60700386	PREPARED BY CCS	DATE: August 2023	FIGURE 4
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Path: M:\EnvDataViz\Westinghouse\mxd\2023\_April\_SA\_GWMonRpt\F5 Upper Pot Map October 2022.mxd

### Legend

- Surficial Aquifer - Upper Zone Monitoring Well
  - Mill Creek
  - Property Line
  - SCRD Bluff Road (Superfund Site)
  - - - Culvert
  - - - Ditch
  - Mill Creek Flow Direction
  - Dike Location
  - Staff Gauge Location
  - Top of Bluff
  - - - Inferred Top of Bluff
  - Bottom of Bluff
  - - - Inferred Bottom of Bluff
  - Secondary Bluff Area
  - EL Former East Lagoon
  - NL North Lagoon
  - SL South Lagoon
  - SAN Sanitary Lagoon
  - WL1 West Lagoon I
  - WL2 West Lagoon II
  - Potentiometric Line (C.I. = 5 feet)
  - Direction of Groundwater
  - 127.66 Groundwater Elevation
  - (118.52) Elevation for illustrative purposes only
- Based upon data collected on October 3, 2022

0 300 600  
Feet

1:7,200

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet

Datum: North American 1983

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### Surficial Aquifer - Upper Zone Potentiometric Map October 2022

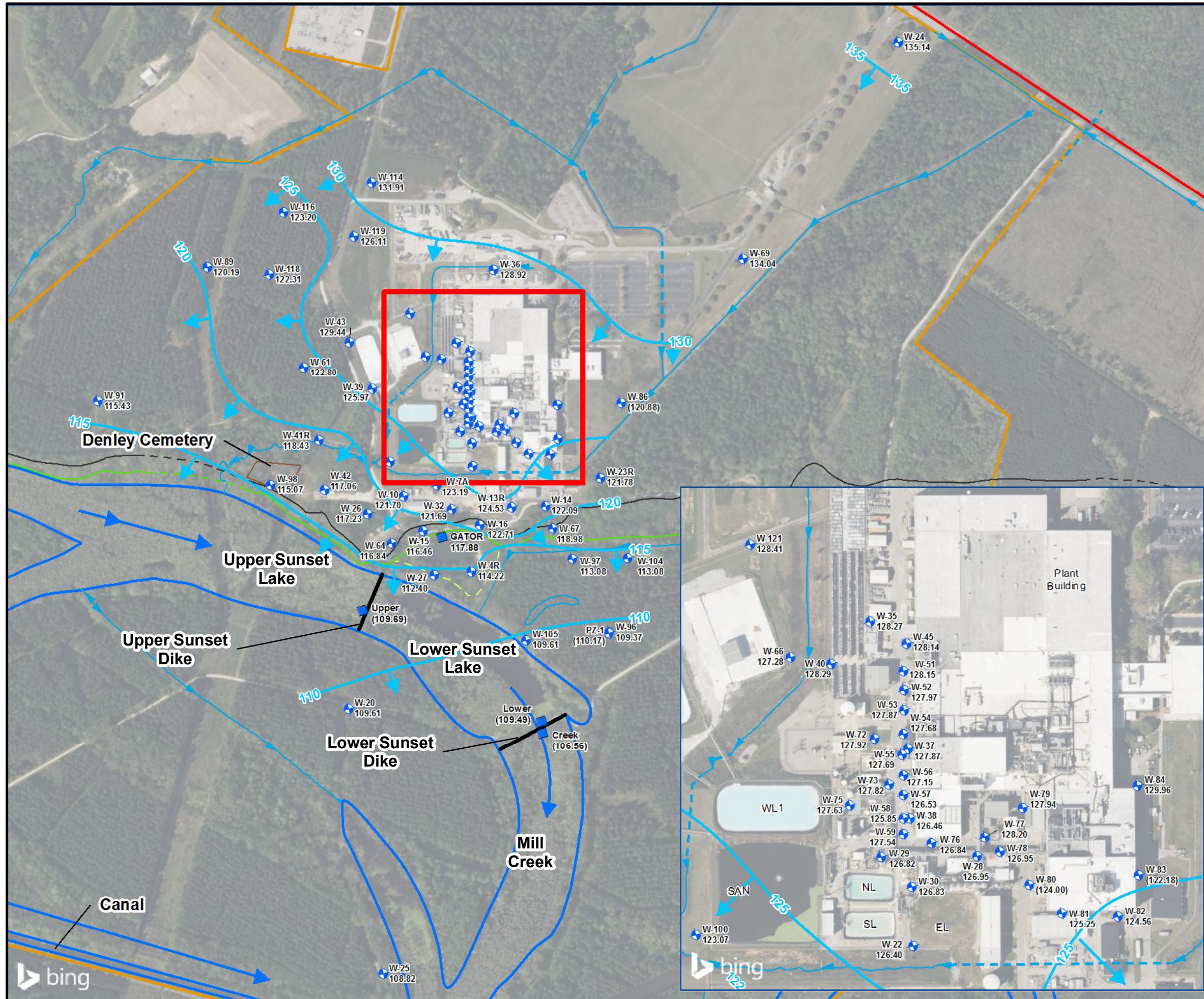
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HOPKINS, SOUTH CAROLINA

PROJECT NO.  
60700386

PREPARED BY  
CCS

DATE:  
August 2023

FIGURE 5



### Legend

- Surficial Aquifer - Upper Zone Monitoring Well
- Mill Creek
- Property Line
- SCRD Bluff Road (Superfund Site)
- - Culvert
- - Ditch
- Mill Creek Flow Direction
- Dike Location
- Staff Gauge Location
- Top of Bluff
- - Inferred Top of Bluff
- Bottom of Bluff
- - Inferred Bottom of Bluff
- Secondary Bluff Area
- EL Former East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon I
- WL2 West Lagoon II
- Potentiometric Line (C.I. = 5 feet)
- Direction of Groundwater
- 127.28 Groundwater Elevation
- (120.88) Elevation for illustrative purposes only

Based upon data collected on April 3, 2023

0 300 600  
Feet



Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet

Datum: North American 1983

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### Surficial Aquifer - Upper Zone Potentiometric Map April 2023

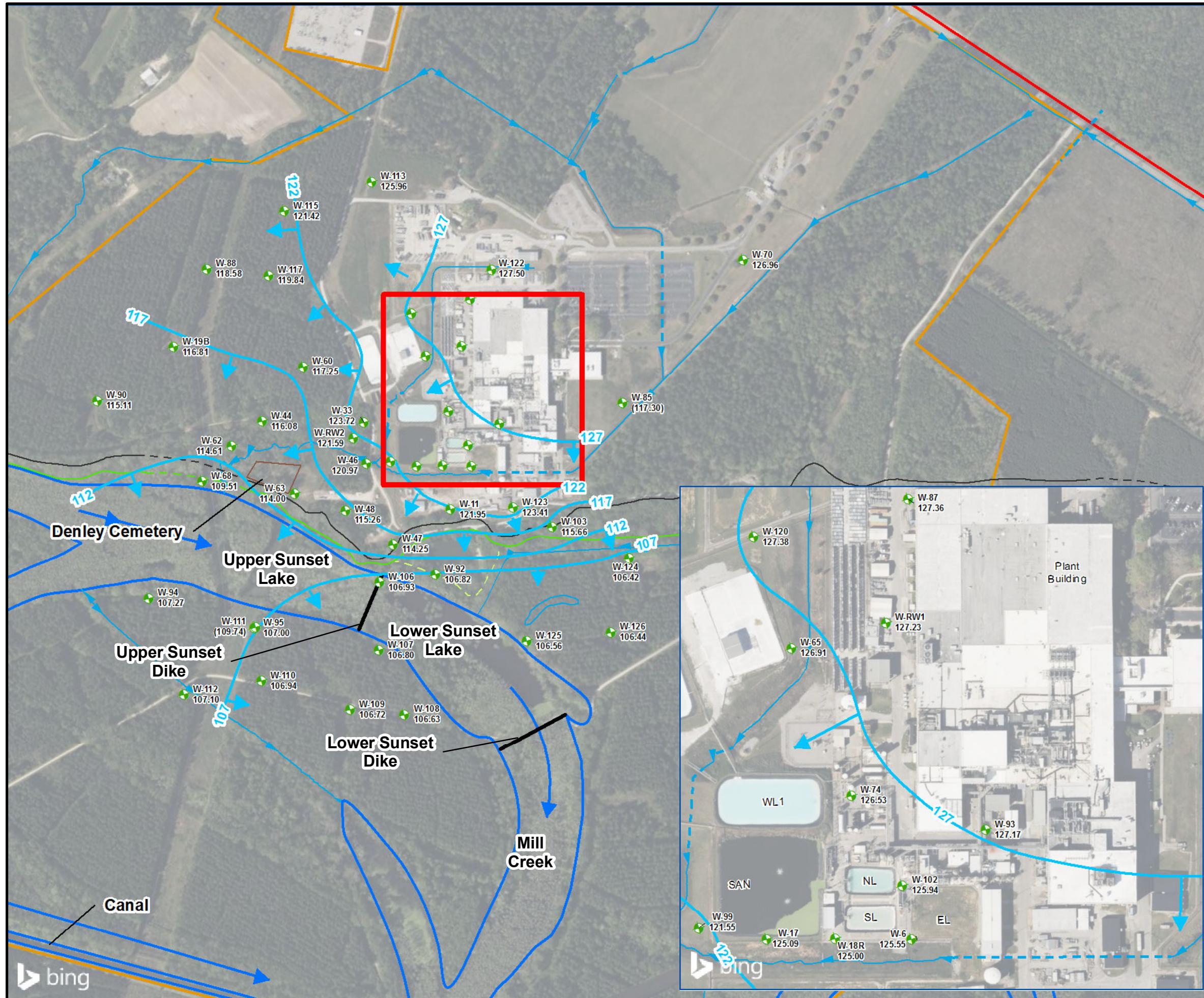
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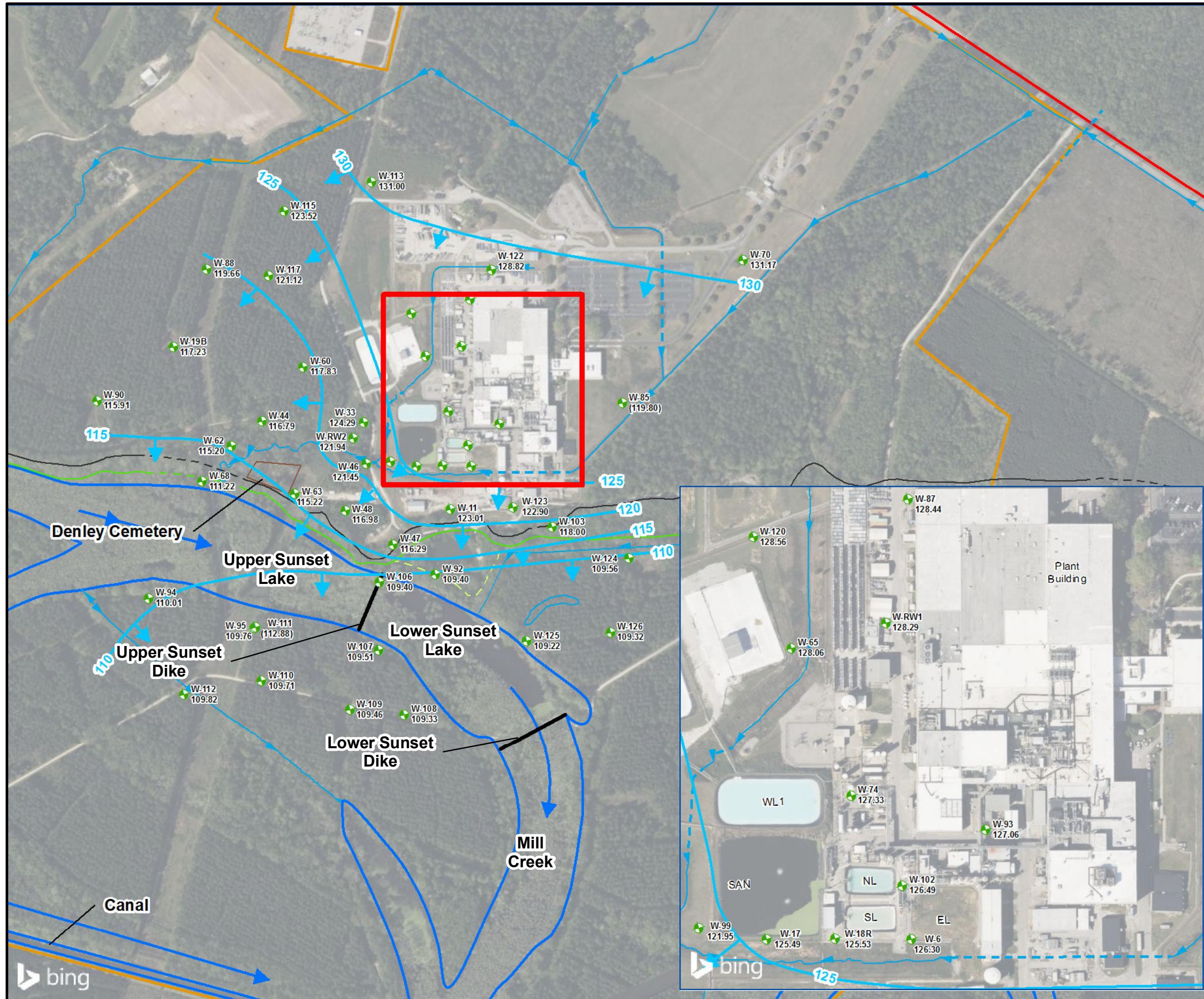
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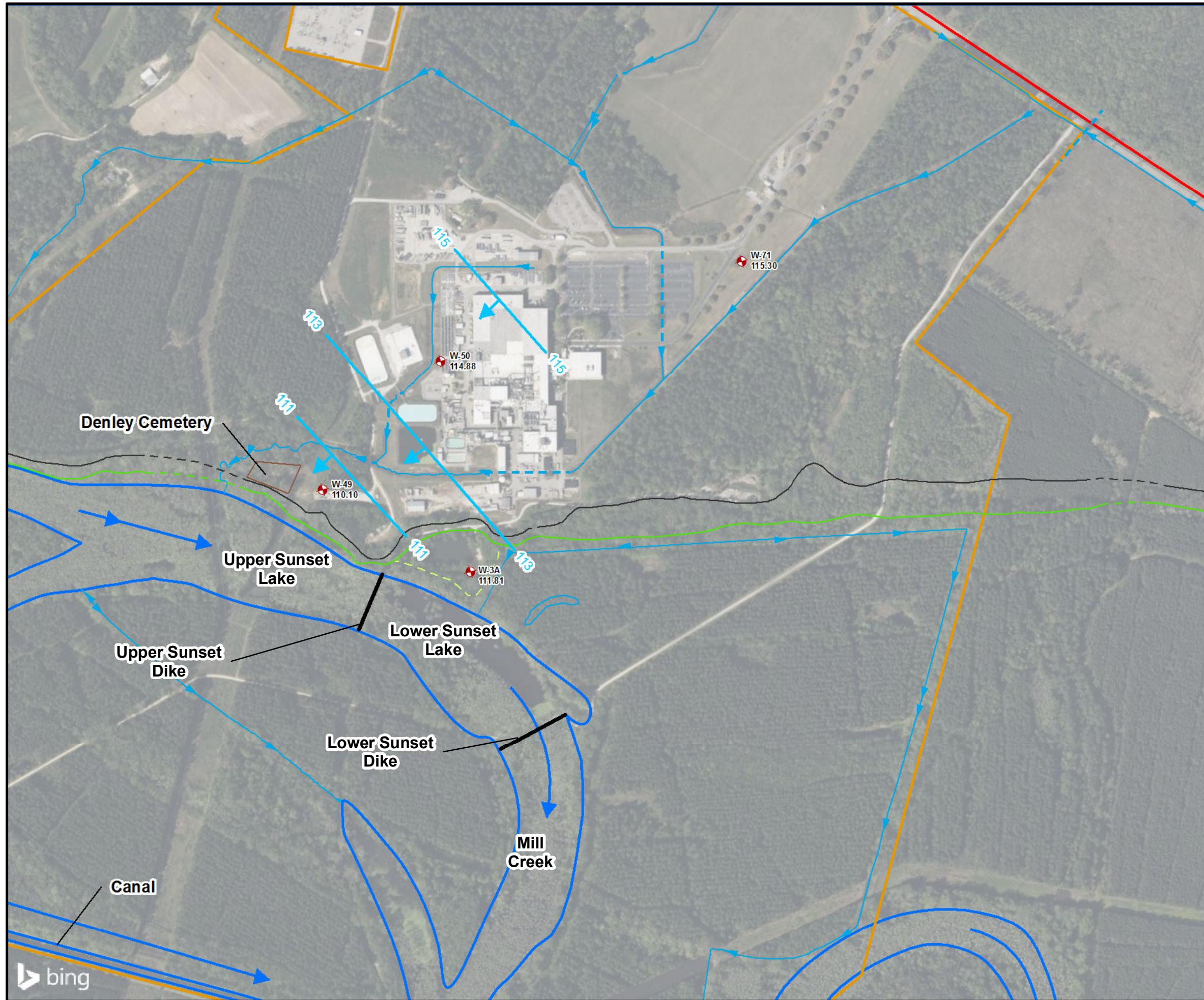
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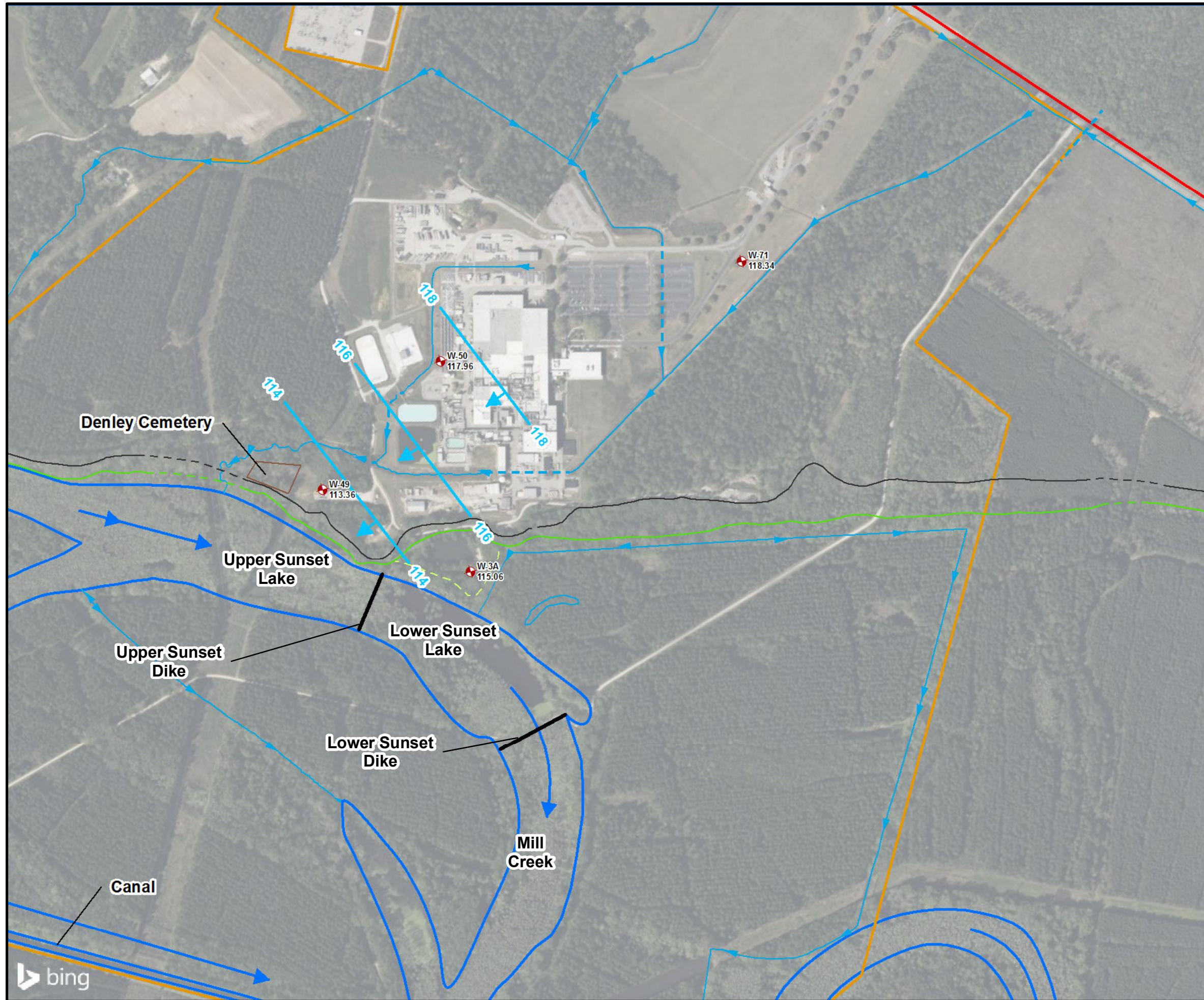
DATE:  
August 2023

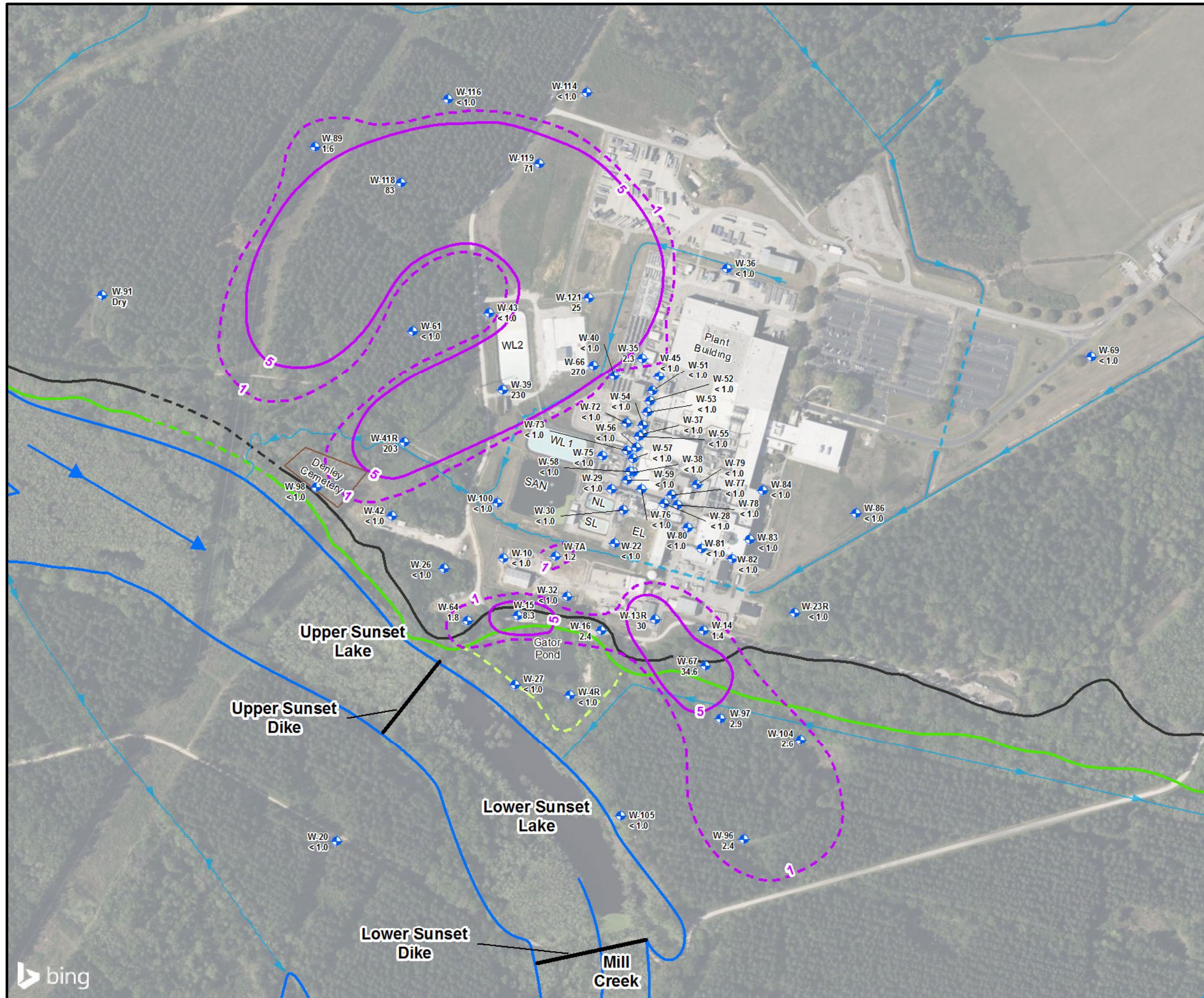
FIGURE 6











### Legend

- Surficial Aquifer - Upper Zone Monitoring Well
- Ditch
- - - Culvert
- Dike Location
- Mill Creek
- Mill Creek Flow Direction
- Top of Bluff
- - - Inferred Top of Bluff
- Bottom of Bluff
- - - Inferred Bottom of Bluff
- Secondary Bluff Area
- PCE Isoconcentration Contour (5 µg/L)
- PCE Isoconcentration Contour at or Above the Detection Limit (µg/L)
- 270 PCE Concentration in µg/L
- EL Former East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2

#### Notes:

Data from monitoring wells W-39 and W-66 is from January 2023 due to the October 2022 sample being analyzed out of hold time for PCE.

Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

Wells displaying two concentration values had a quality control duplicate sample taken.

0 200 400  
1 inch = 400 feet

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet

Datum: North American 1983

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### Extent of PCE - Surficial Aquifer - Upper Zone October 2022

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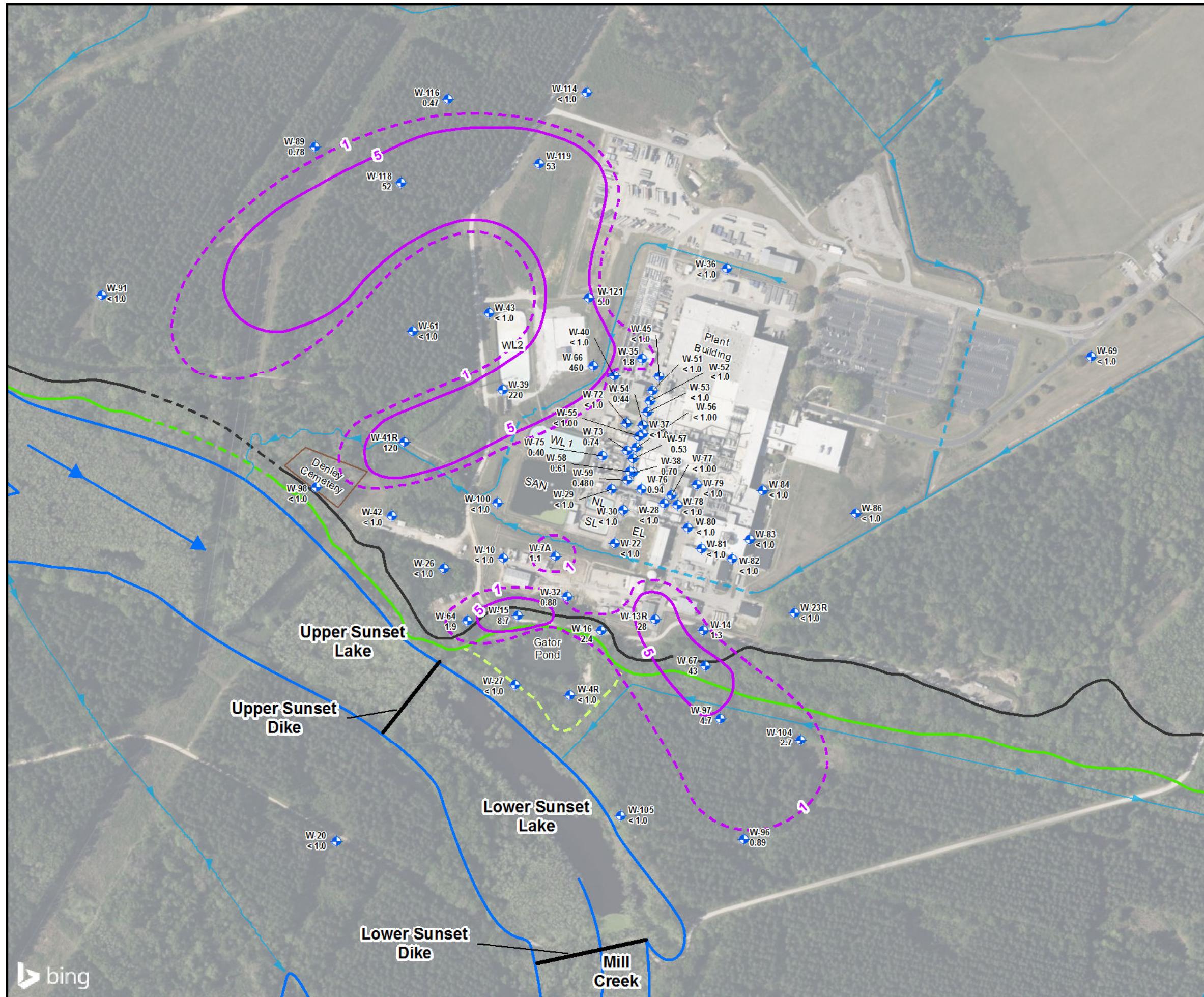
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PREPARED BY:  
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DATE:  
August 2023

FIGURE 11





### Legend

- Surficial Aquifer - Upper Zone Monitoring Well
- Ditch
- - - Culvert
- Dike Location
- Mill Creek
- Mill Creek Flow Direction
- Top of Bluff
- - - Inferred Top of Bluff
- Bottom of Bluff
- - - Inferred Bottom of Bluff
- Secondary Bluff Area
- PCE Isoconcentration Contour (5 µg/L)
- PCE Isoconcentration Contour at or Above the Detection Limit (µg/L)
- 460 PCE Concentration in µg/L
- EL Former East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2

### Notes:

Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

0 200 400  
1 inch = 400 feet

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet  
Datum: North American 1983

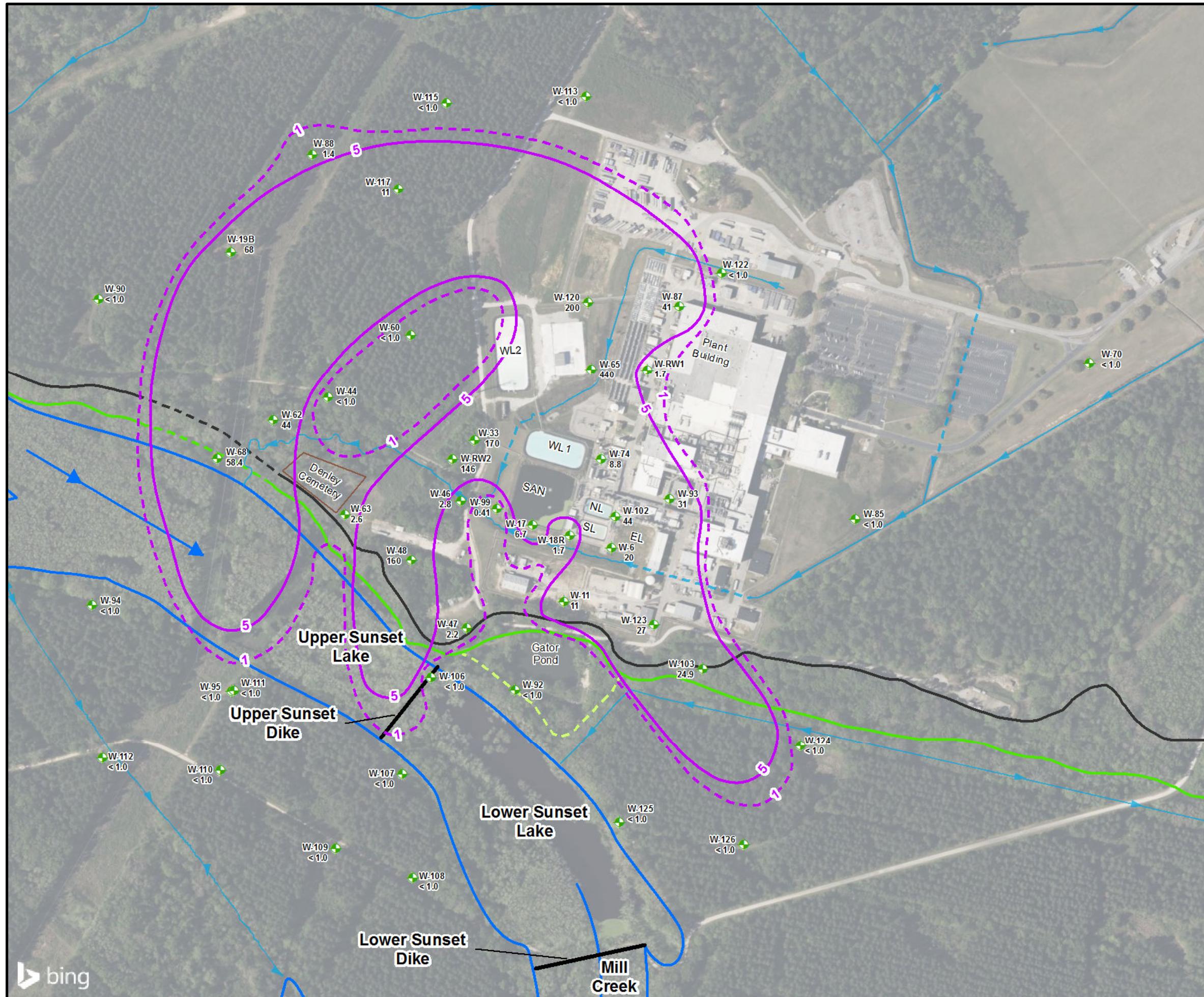
**AECOM**

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T: (803) 254-4400 F: (803) 771-6676

**Extent of PCE -  
Surficial Aquifer - Upper Zone  
April 2023**

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY  
HOPKINS, SOUTH CAROLINA

PROJECT NO. 60700386	PREPARED BY: CCS	DATE: August 2023	FIGURE 12
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### Legend

- Surficial Aquifer - Lower Zone Monitoring Well
- Ditch
- Culvert
- Dike Location
- Mill Creek Flow Direction
- Mill Creek
- Top of Bluff
- Inferred Top of Bluff
- Bottom of Bluff
- Inferred Bottom of Bluff
- Secondary Bluff Area
- PCE Isoconcentration Contour (5  $\mu\text{g/L}$ )
- PCE Isoconcentration Contour at or Above the Detection Limit ( $\mu\text{g/L}$ )
- 440 PCE Concentration in  $\mu\text{g/L}$
- EL Former East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2

### Notes:

Data from monitoring wells W-65 and W-120 is from January 2023 due to the October 2022 sample being analyzed out of hold time for PCE.

Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

Wells displaying two concentration values had a quality control duplicate sample taken.

0 200 400  
1 inch = 400 feet

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet  
Datum: North American 1983

**AECOM**

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### Extent of PCE Surficial Aquifer - Lower Zone October 2022

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY  
HOPKINS, SOUTH CAROLINA

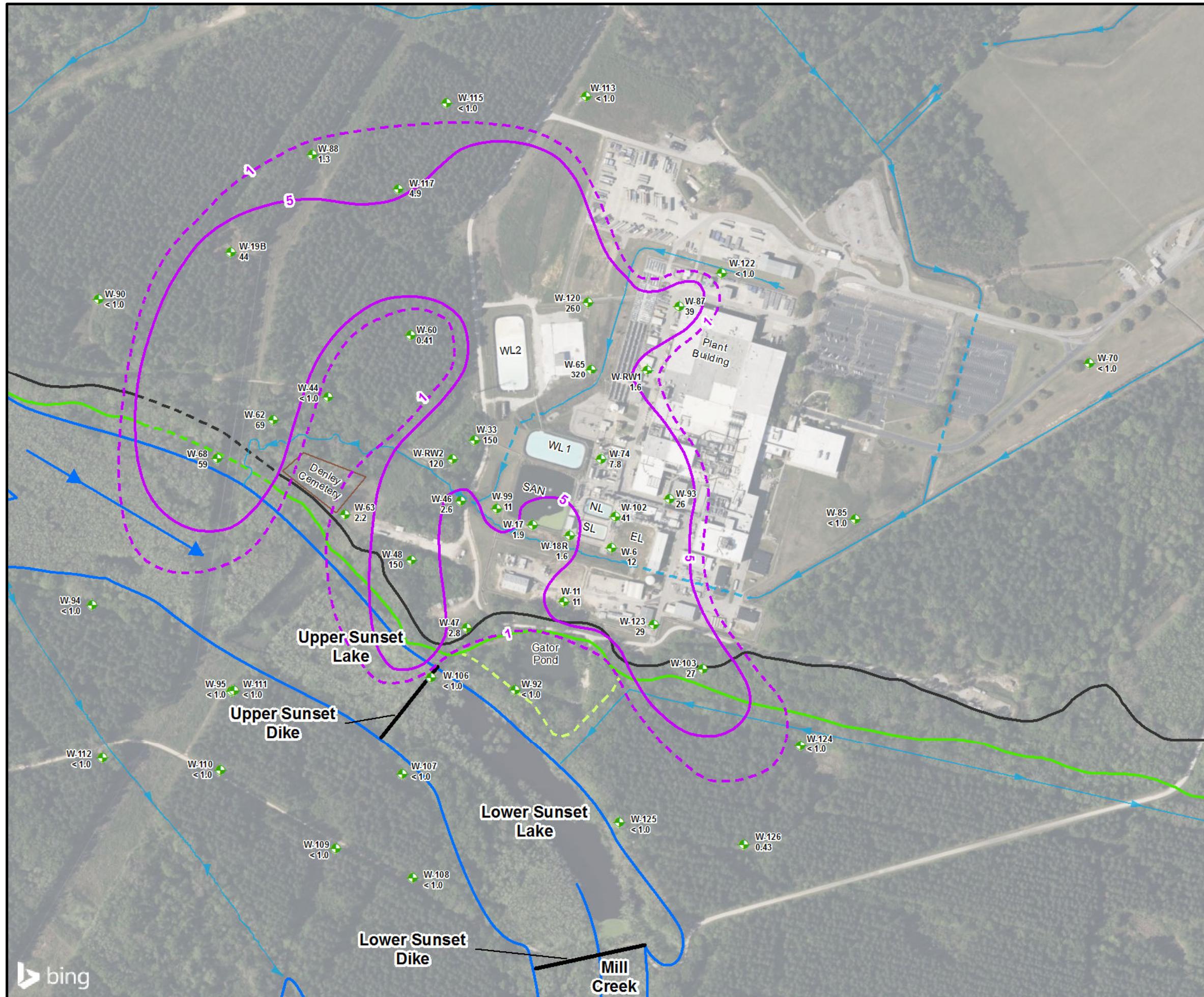
PROJECT NO.  
60700386

PREPARED BY:  
CCS

DATE:  
August 2023

FIGURE 13





### Legend

- Surficial Aquifer - Lower Zone Monitoring Well
- Ditch
- - - Culvert
- Dike Location
- Mill Creek Flow Direction
- Mill Creek
- Top of Bluff
- - - Inferred Top of Bluff
- Bottom of Bluff
- - - Inferred Bottom of Bluff
- Secondary Bluff Area
- PCE Isoconcentration Contour ( $5 \mu\text{g/L}$ )
- PCE Isoconcentration Contour at or Above the Detection Limit ( $\mu\text{g/L}$ )
- 320 PCE Concentration in  $\mu\text{g/L}$
- EL Former East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2

### Notes:

Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

0 200 400  
1 inch = 400 feet



Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet  
Datum: North American 1983

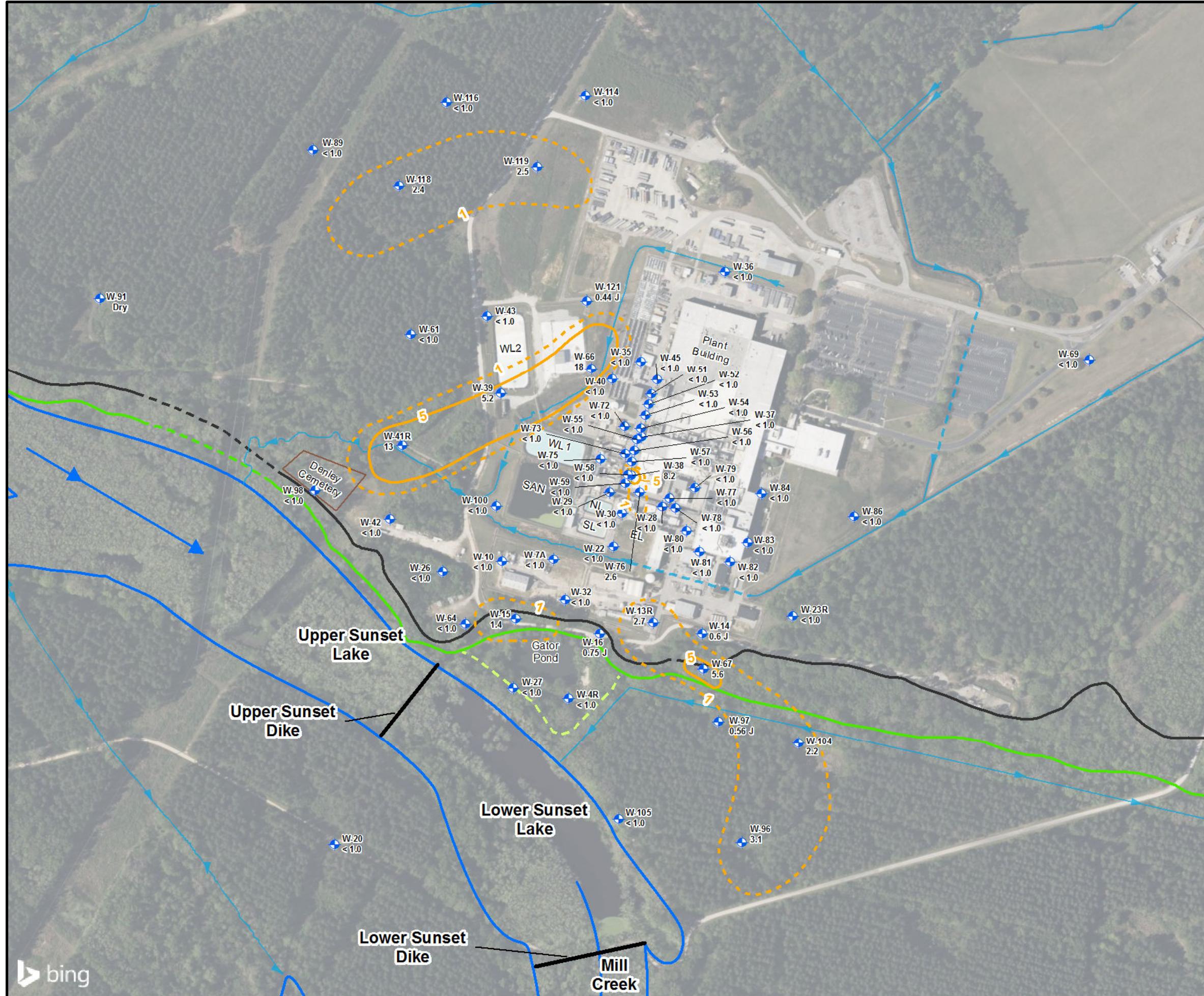
**AECOM**

101 Research Drive  
Columbia, SC 29203  
T: (803) 254-4400 F: (803) 771-6676

### Extent of PCE Surficial Aquifer - Lower Zone April 2023

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY  
HOPKINS, SOUTH CAROLINA

PROJECT NO. 60700386	PREPARED BY: CCS	DATE: August 2023	FIGURE 14
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## Legend

-  Surficial Aquifer - Upper Zone Monitoring Well  
 Ditch  
 Culvert  
 Dike Location  
 Mill Creek Flow Direction  
 Mill Creek  
 Top of Bluff  
 Inferred Top of Bluff  
 Bottom of Bluff  
 Inferred Bottom of Bluff  
 Secondary Bluff Area  
 TCE Isoconcentration Contour (5 ug/L)  
 TCE Isoconcentration Contour at or Above the Detection Limit (ug/L)

18 TCE Concentration in ug/L

J Result below reporting limit

EL Former East Lagoon

NL North Lagoon

SL South Lagoon

SAN Sanitary Lagoon

WL1 West Lagoon 1

WL2 West Lagoon 2

Notes:  
Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

Wells displaying two concentration values had a quality control duplicate sample taken.

0      200      400

1 inch = 400 feet

Map Projection: NAD 1983, South Carolina State Plane,  
FIPS 3900, Feet

Datum: North American 1983

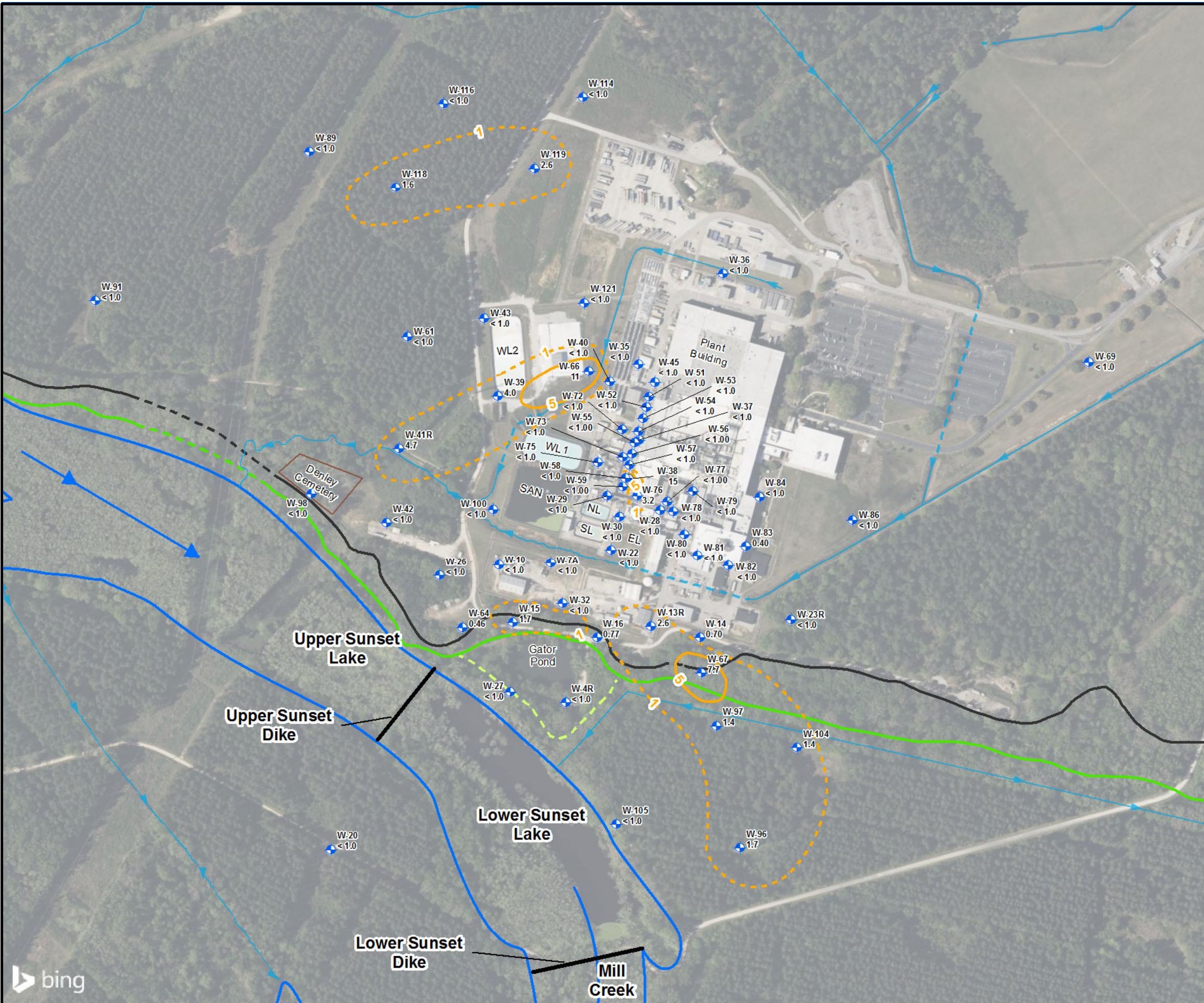
AECOM

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# **Extent of TCE Surficial Aquifer - Upper Zone October 2022**

**WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY  
HOPKINS, SOUTH CAROLINA**

PROJECT NO. PREPARED BY: DATE: FIGURE 15  
60700386 CCS August 2023



### Legend

- Surficial Aquifer - Upper Zone Monitoring Well
- Ditch
- - - Culvert
- Dike Location
- Mill Creek Flow Direction
- Mill Creek
- Top of Bluff
- - - Inferred Top of Bluff
- Bottom of Bluff
- - - Inferred Bottom of Bluff
- Secondary Bluff Area
- TCE Isoconcentration Contour (5 ug/L)
- - - TCE Isoconcentration Contour at or Above the Detection Limit (ug/L)
- 15 TCE Concentration in ug/L
- J Result below reporting limit
- EL Former East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2

### Notes:

Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

0 200 400  
1 inch = 400 feet

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet

Datum: North American 1983

**AECOM**

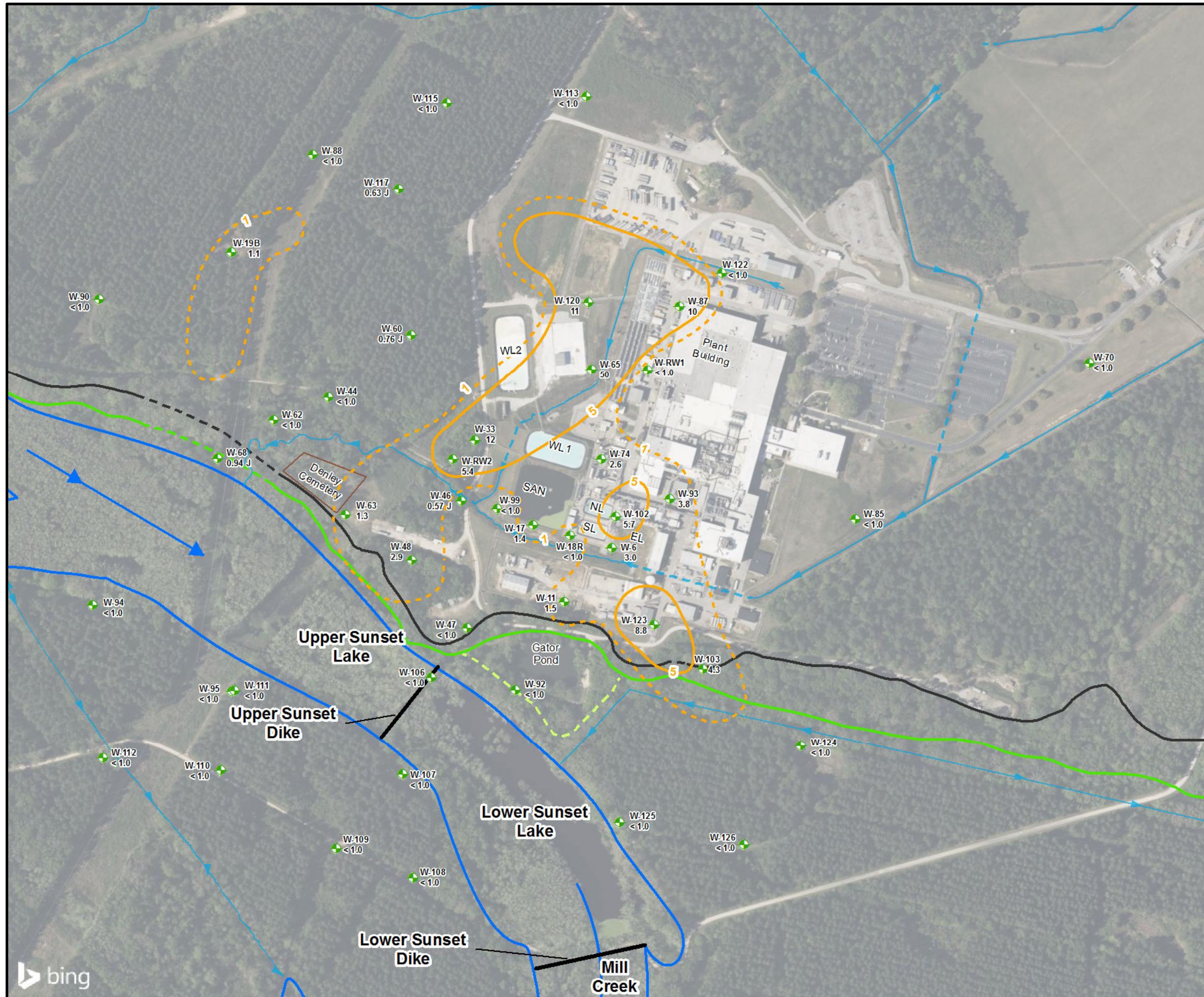
101 Research Drive  
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**Extent of TCE  
Surficial Aquifer - Upper Zone  
April 2023**

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY  
HOPKINS, SOUTH CAROLINA

PROJECT NO. 60700386	PREPARED BY: CCS	DATE: August 2023	FIGURE 16
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### Legend

- Surficial Aquifer - Lower Zone Monitoring Well
- Ditch
- Culvert
- Dike Location
- Mill Creek Flow Direction
- Mill Creek
- Top of Bluff
- Inferred Top of Bluff
- Bottom of Bluff
- Inferred Bottom of Bluff
- Secondary Bluff Area
- TCE Isoconcentration Contour (5 ug/L)
- TCE Isoconcentration Contour at or Above the Detection Limit (ug/L)
- 50 TCE Concentration in ug/L
- J Result below reporting limit
- EL Former East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2

### Notes:

Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

Wells displaying two concentration values had a quality control duplicate sample taken.

0 200 400  
1 inch = 400 feet

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet

Datum: North American 1983

**AECOM**

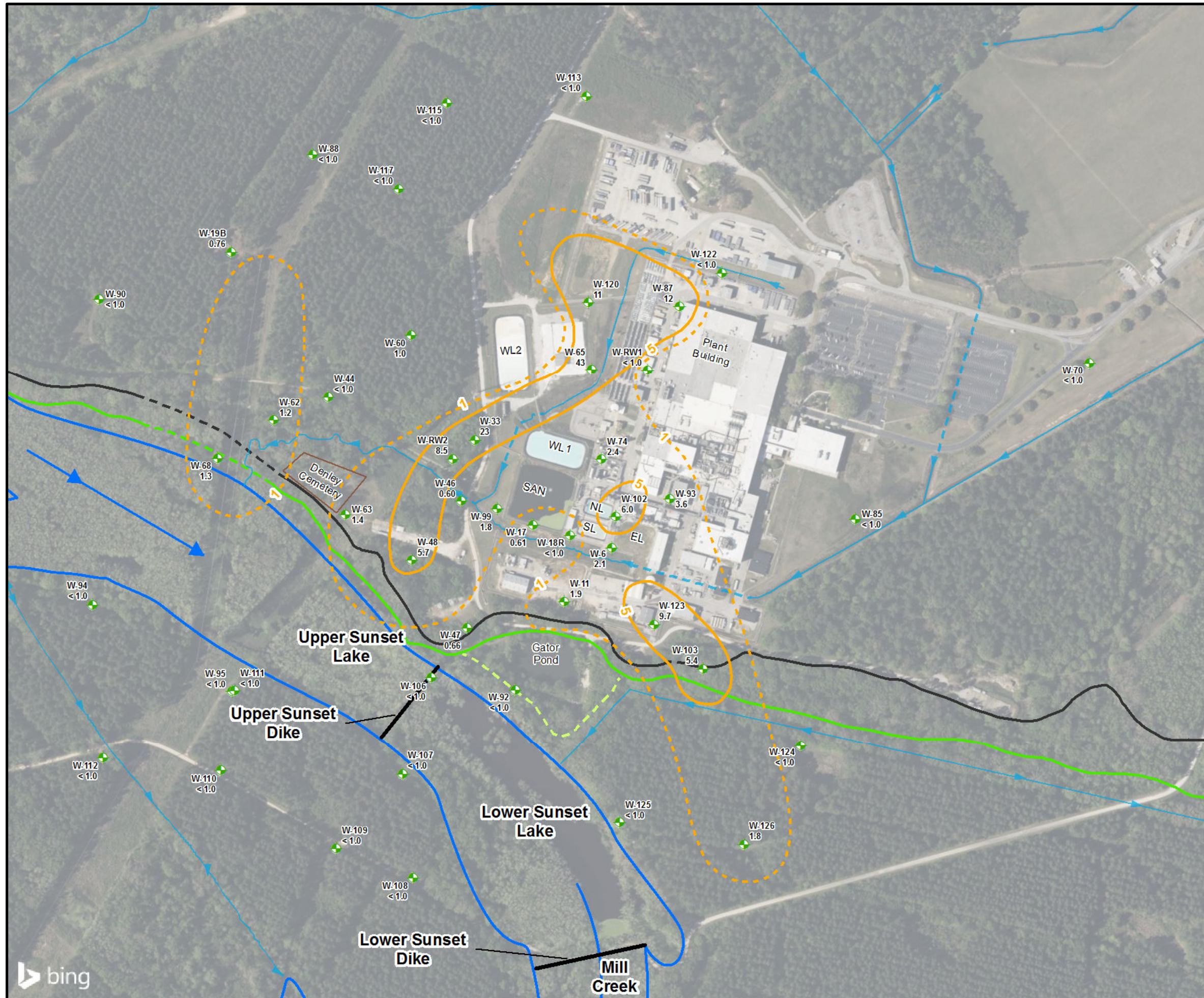
101 Research Drive  
Columbia, SC 29203  
T: (803) 254-4400 F: (803) 771-6676

### Extent of TCE Surficial Aquifer - Lower Zone October 2022

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY  
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:
60700386	CCS	August 2023

**FIGURE 17**



### Legend

- Surficial Aquifer - Lower Zone Monitoring Well
- Ditch
- Culvert
- Dike Location
- Mill Creek Flow Direction
- Mill Creek
- Top of Bluff
- Inferred Top of Bluff
- Bottom of Bluff
- Inferred Bottom of Bluff
- Secondary Bluff Area
- TCE Isoconcentration Contour (5 ug/L)
- TCE Isoconcentration Contour at or Above the Detection Limit (ug/L)
- 43 TCE Concentration in ug/L
- J Result below reporting limit
- EL Former East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2

### Notes:

Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

0 200 400  
1 inch = 400 feet

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet

Datum: North American 1983

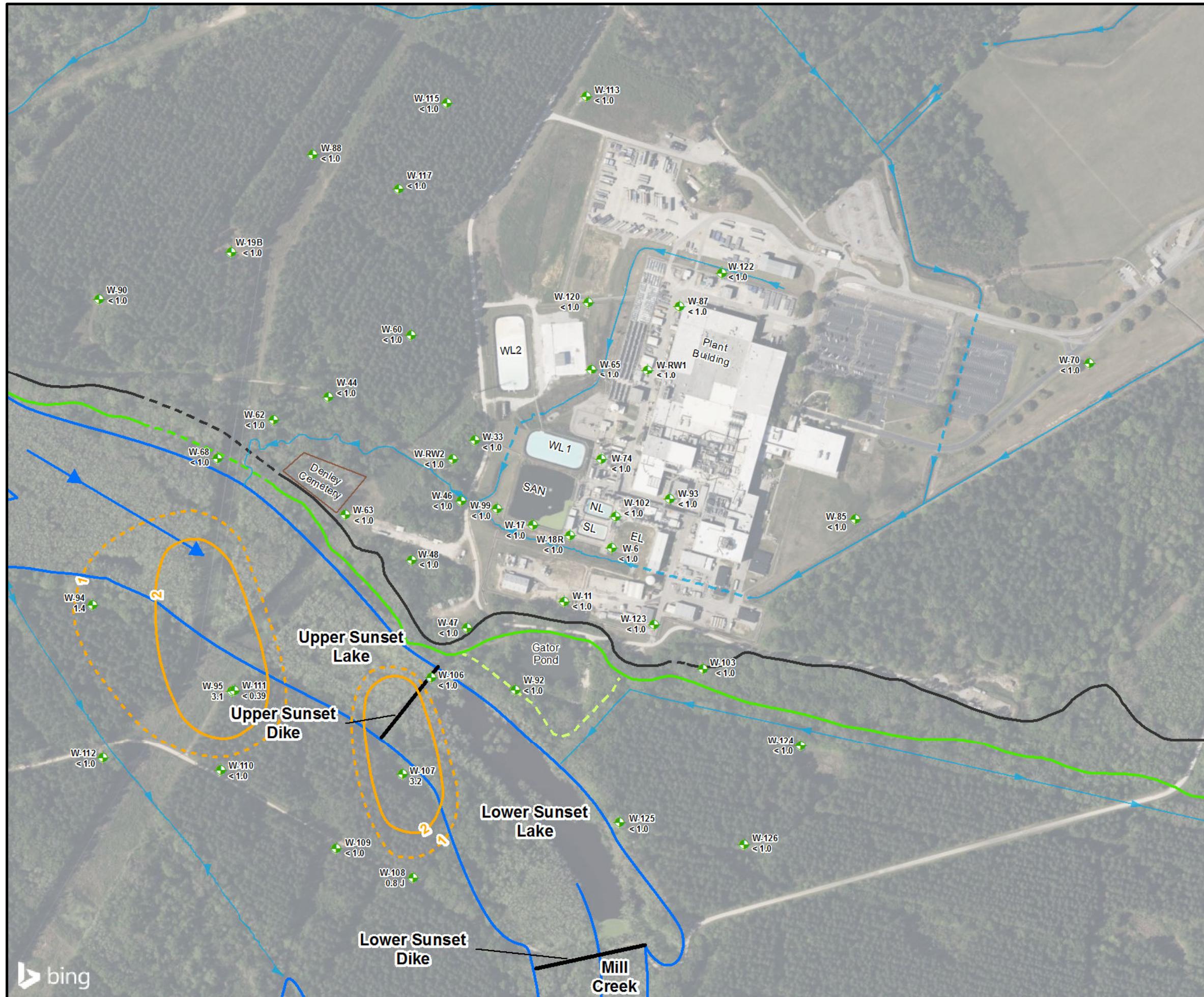
**AECOM**

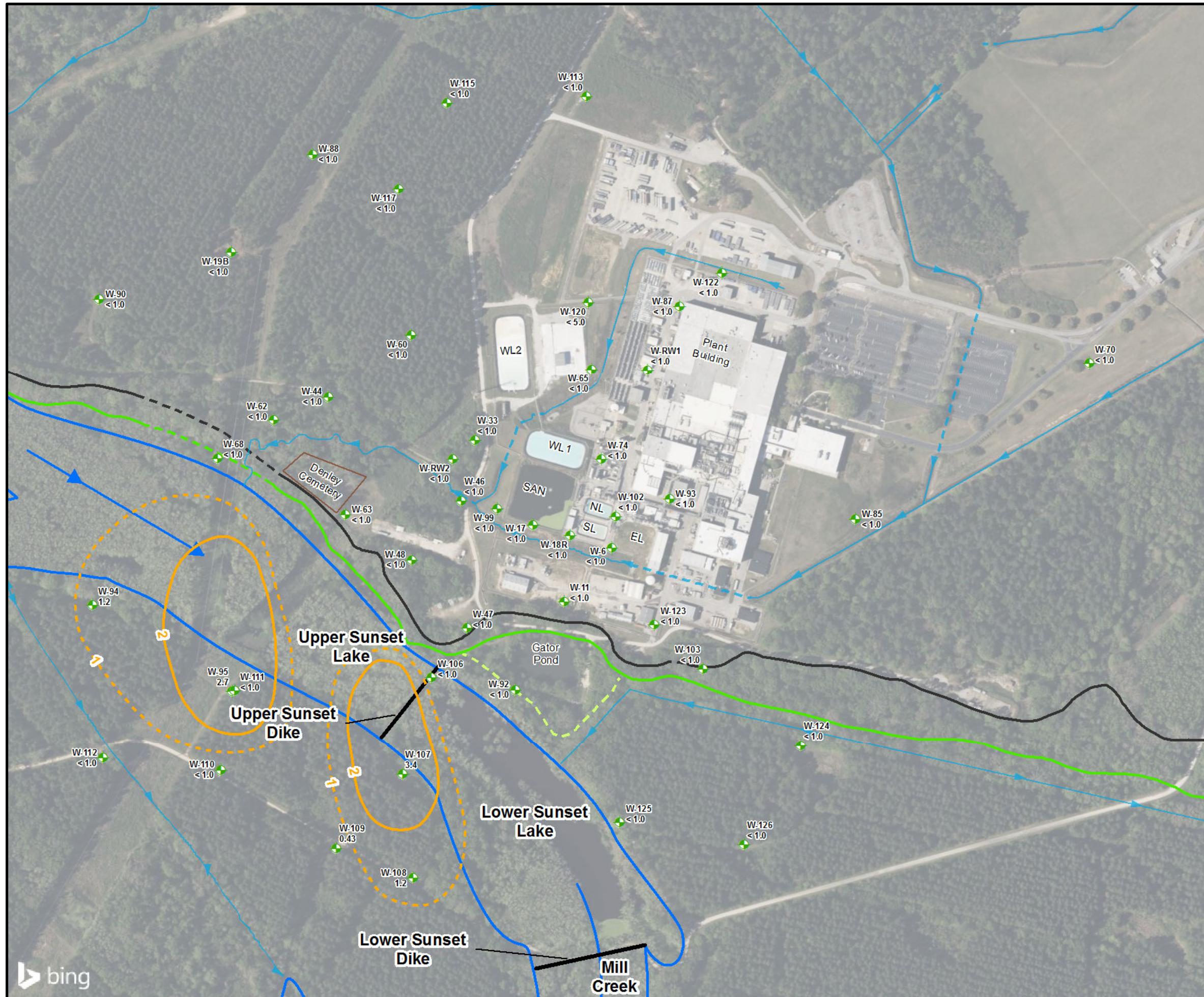
101 Research Drive  
Columbia, SC 29203  
T: (803) 254-4400 F: (803) 771-6676

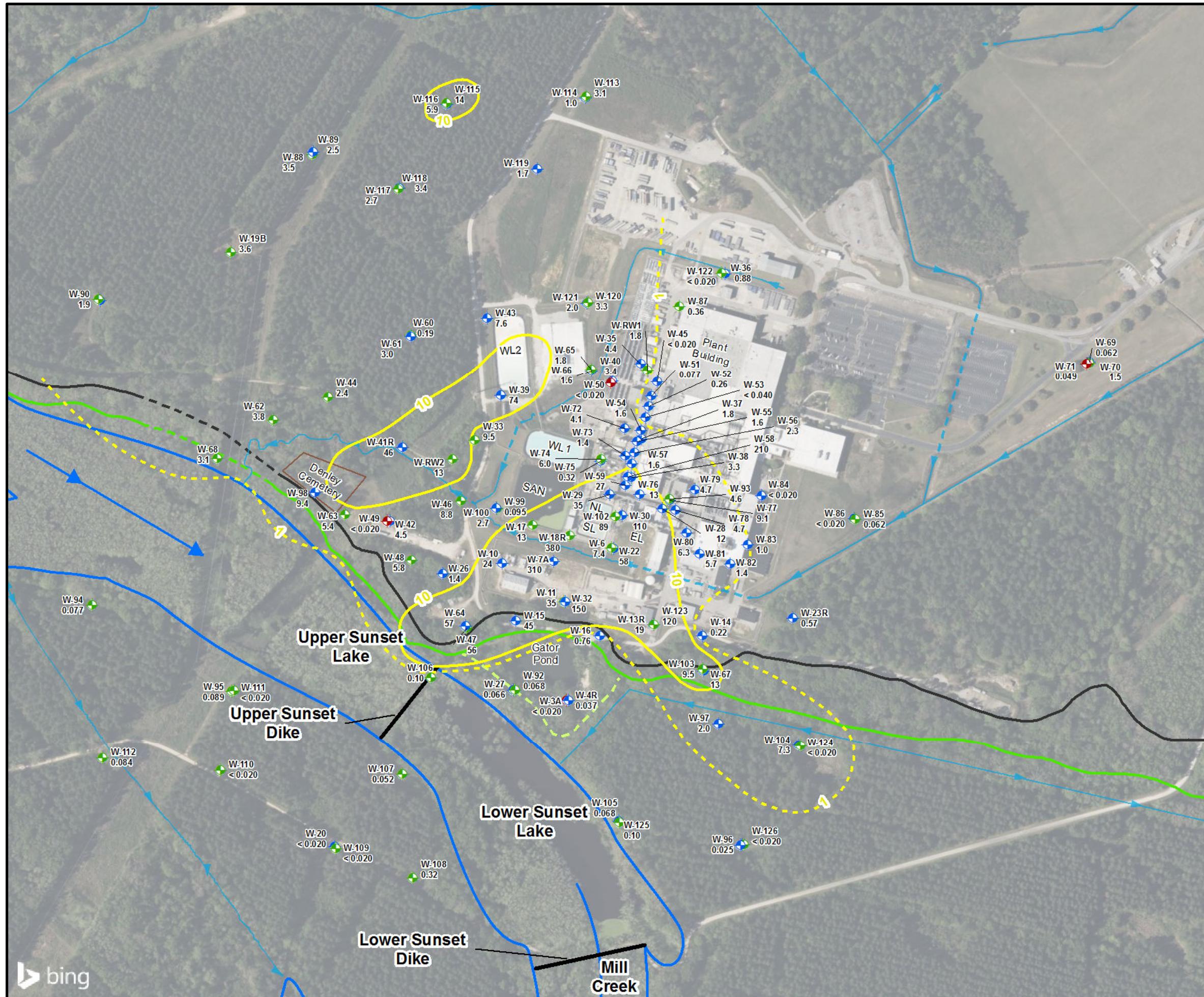
**Extent of TCE  
Surficial Aquifer - Lower Zone  
April 2023**

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY  
HOPKINS, SOUTH CAROLINA

PROJECT NO. 60700386	PREPARED BY: CCS	DATE: August 2023	FIGURE 18
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### Legend

- ◆ Surficial Aquifer - Upper Zone Monitoring Well
- ◆ Surficial Aquifer - Lower Zone Monitoring Well
- ◆ Black Creek Aquifer Monitoring Well
- ◆ Ditch
- Culvert
- Dike Location
- Mill Creek Flow Direction
- Mill Creek
- Top of Bluff
- - - Inferred Top of Bluff
- Bottom of Bluff
- Inferred Bottom of Bluff
- Secondary Bluff Area
- Nitrate Isoconcentration Contour (10 mg/L)
- Nitrate Isoconcentration Contour at or Above the Detection Limit (mg/L)
- 380 Nitrate Concentration in mg/L
- EL Former East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2

### Notes:

Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

Wells displaying two concentration values had a quality control duplicate sample taken.

0 200 400  
1 inch = 400 feet

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet

Datum: North American 1983

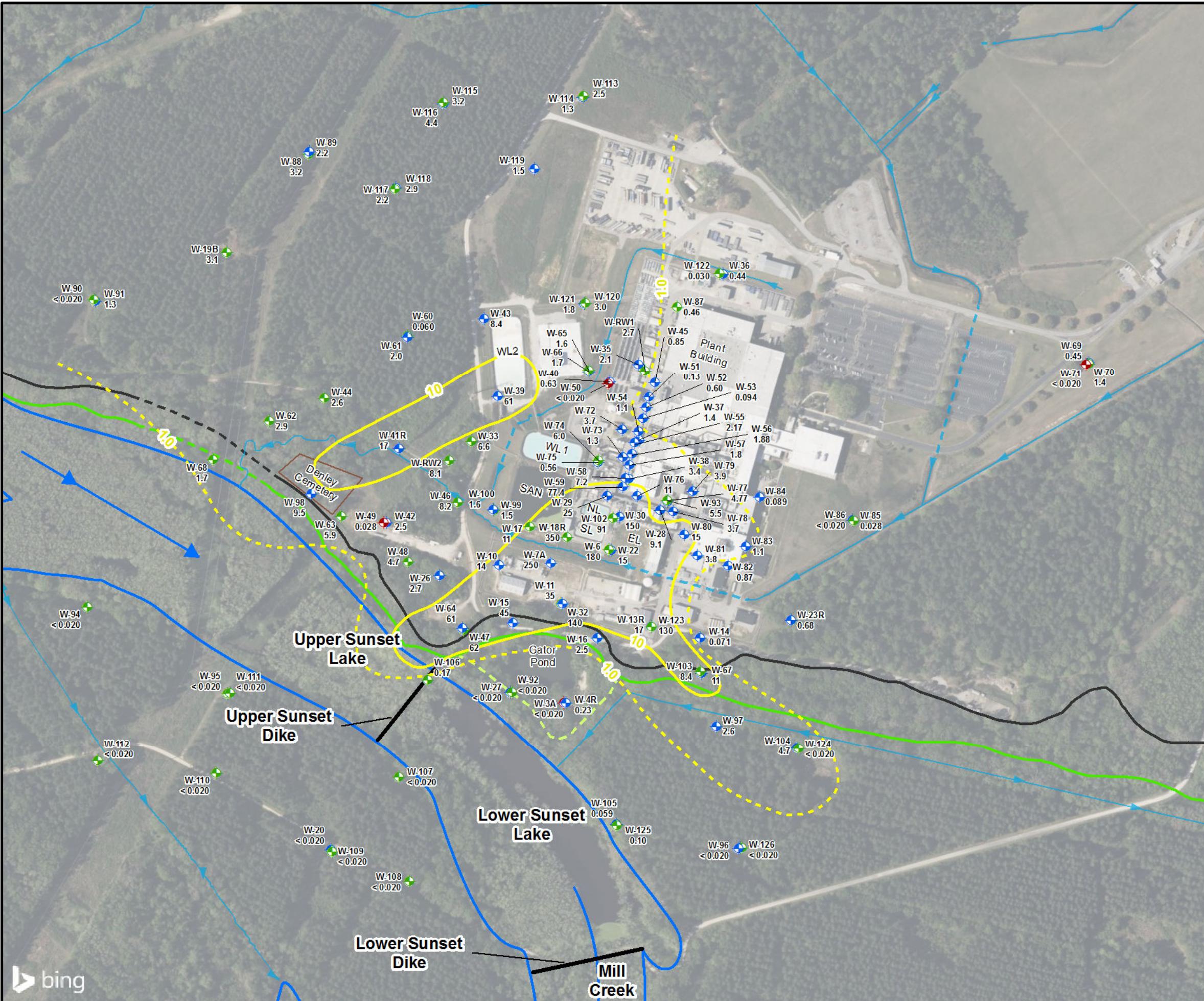
**AECOM**

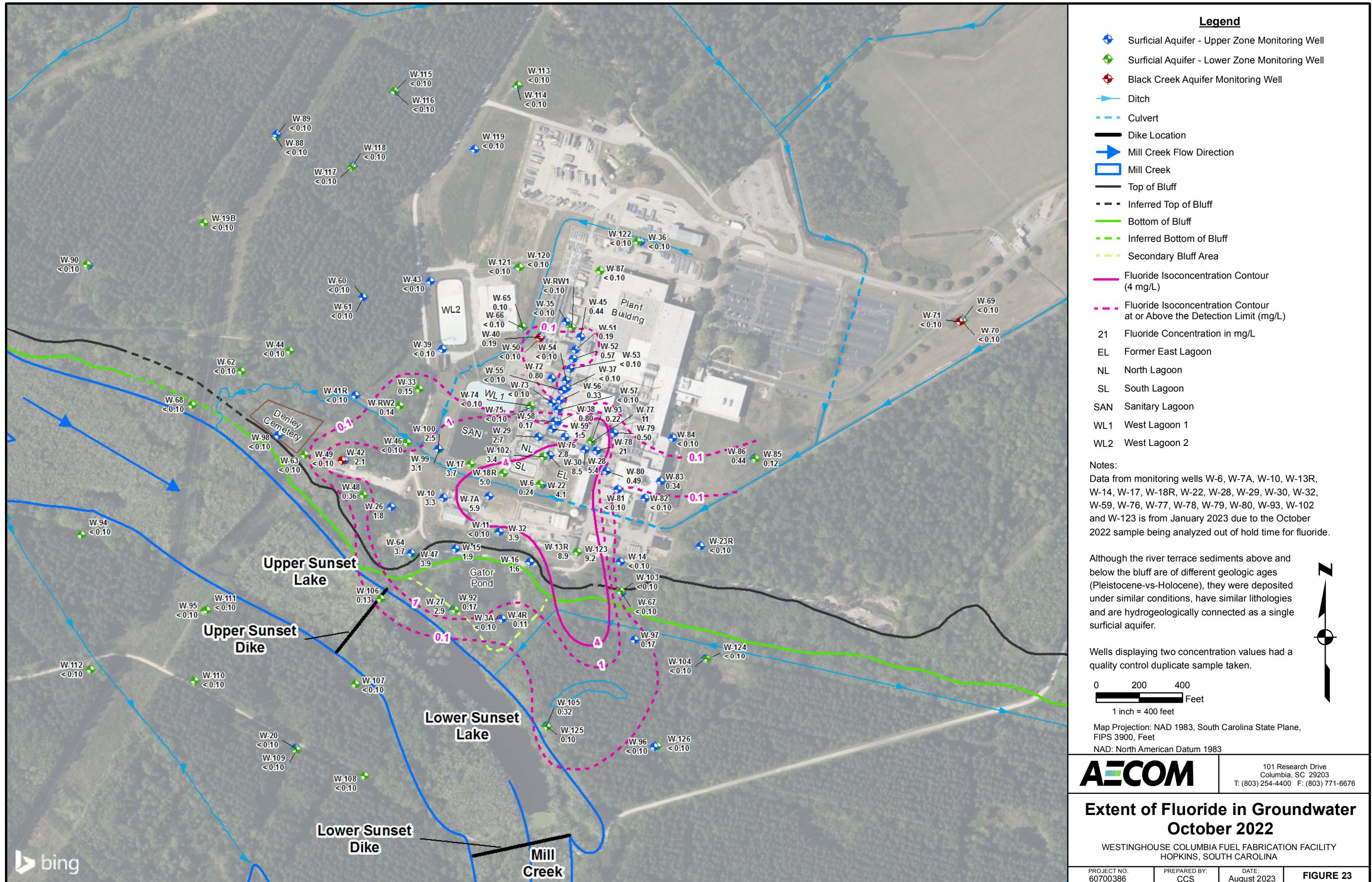
101 Research Drive  
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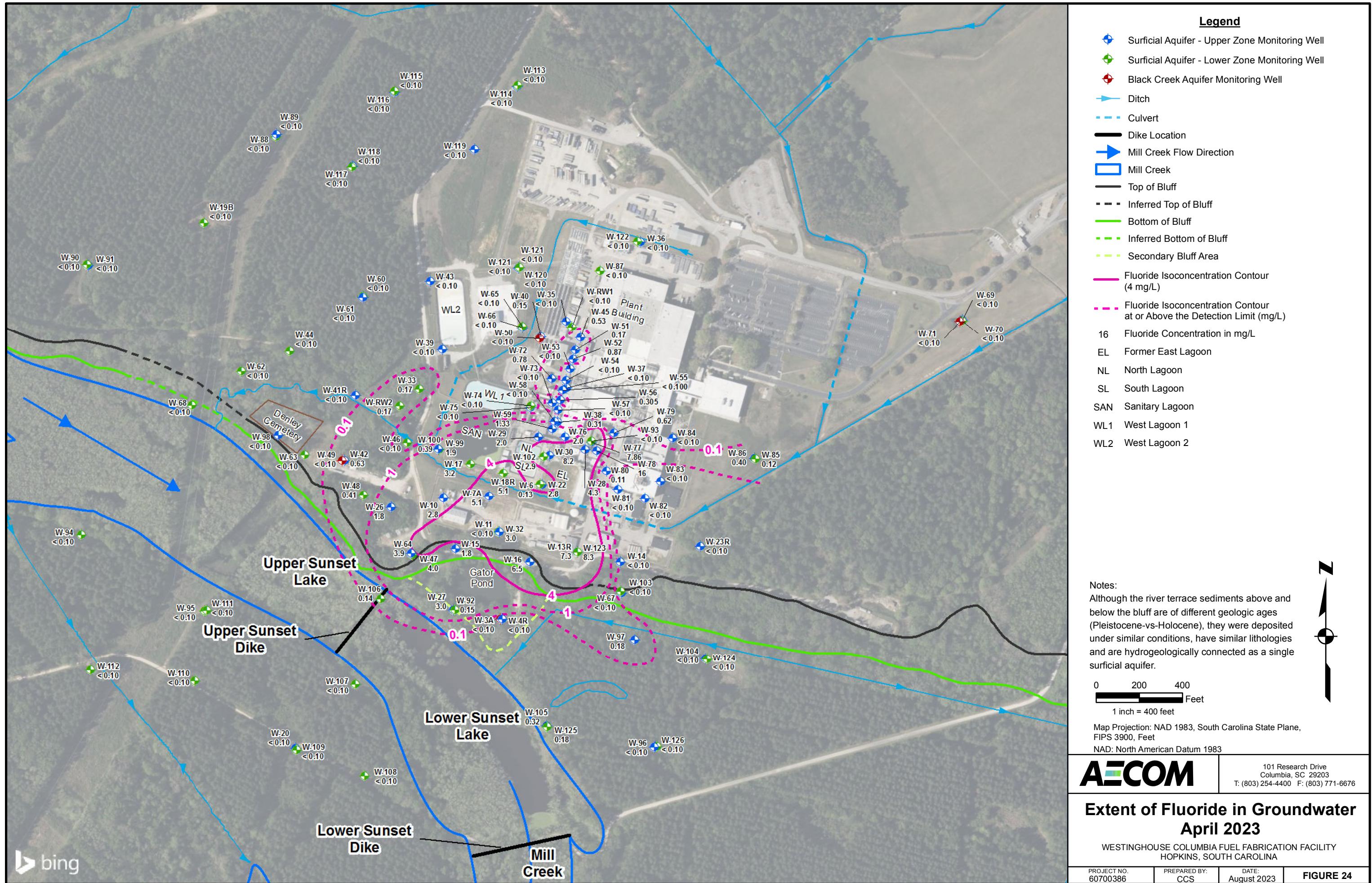
### Extent of Nitrate in Groundwater October 2022

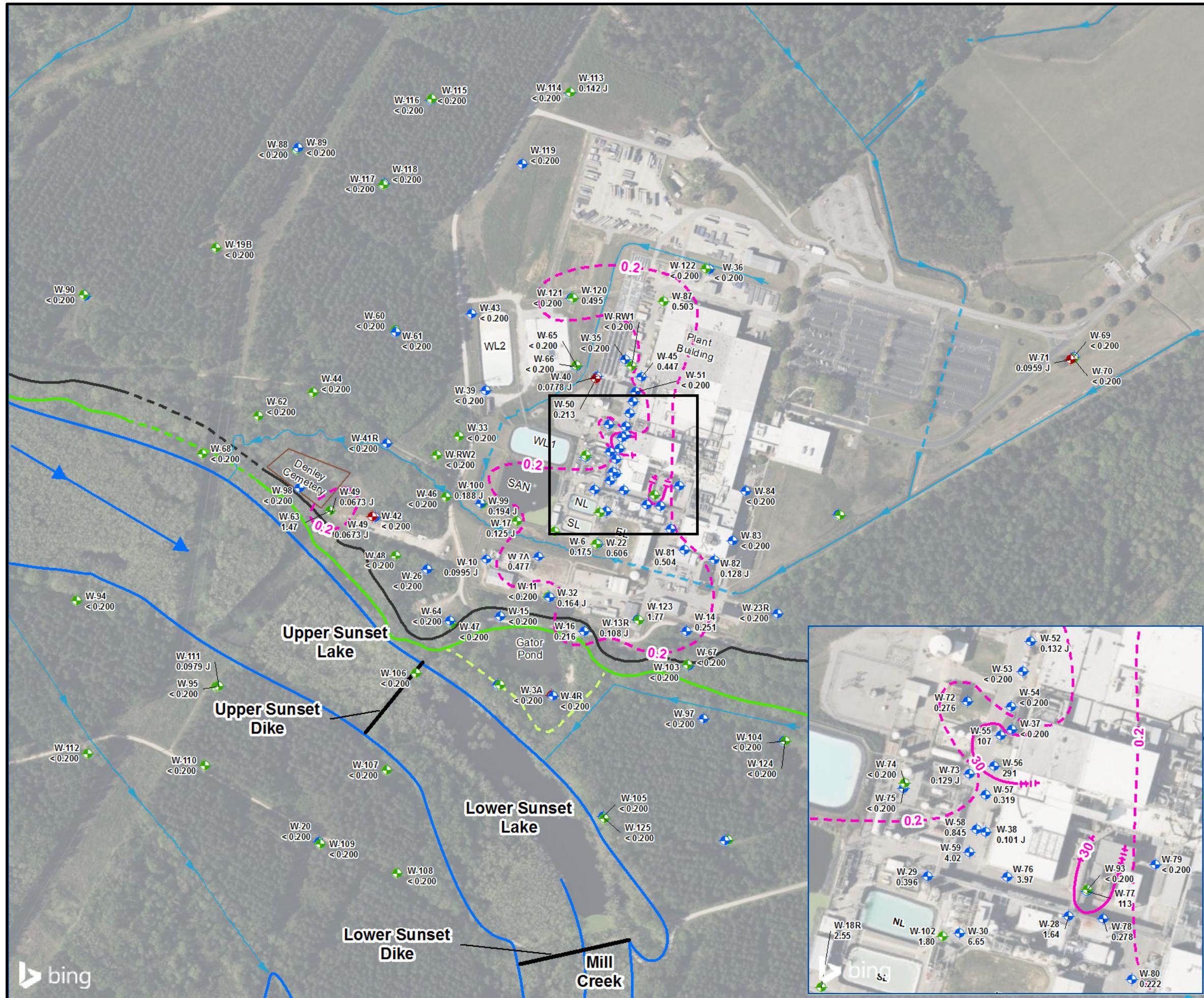
WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY  
HOPKINS, SOUTH CAROLINA

PROJECT NO. 60700386	PREPARED BY: CCS	DATE: August 2023	FIGURE 21
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### Legend

- Surficial Aquifer - Upper Zone Monitoring Well
- Surficial Aquifer - Lower Zone Monitoring Well
- Black Creek Aquifer Monitoring Well
- Ditch
- - - Culvert
- Dike Location
- Mill Creek Flow Direction
- Mill Creek
- Top of Bluff
- - - Inferred Top of Bluff
- Bottom of Bluff
- - - Inferred Bottom of Bluff
- Secondary Bluff Area
- Uranium Isoconcentration Contour (30 µg/L)
- - - Uranium Inferred Isoconcentration Contour (µg/L)
- - - Uranium Isoconcentration Contour at or Above the Minimum Detectable Concentration (µg/L)
- 291 Total Uranium in µg/L
- J Result below reporting limit
- EL Former East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2

### Notes:

Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

Wells displaying two concentration values had a quality control duplicate sample taken.

0 200 400  
1 inch = 400 feet

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet

Datum: North American 1983

**AECOM**

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### Extent of Uranium in Groundwater October 2022

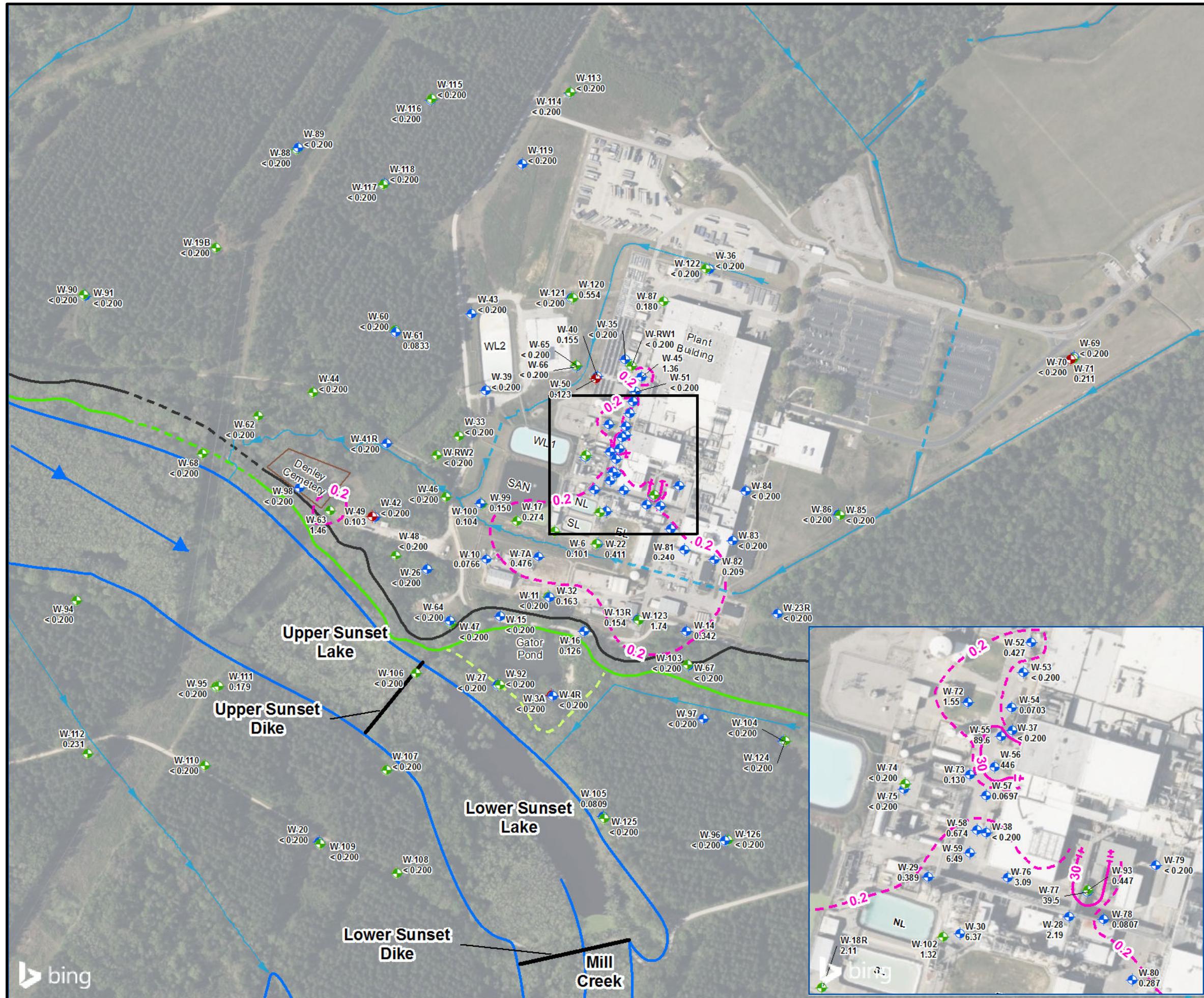
WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY  
HOPKINS, SOUTH CAROLINA

PROJECT NO.  
60700386

PREPARED BY:  
CCS

DATE:  
August 2023

FIGURE 25



### Legend

- Surficial Aquifer - Upper Zone Monitoring Well
- Surficial Aquifer - Lower Zone Monitoring Well
- Black Creek Aquifer Monitoring Well
- Ditch
- - - Culvert
- Dike Location
- Mill Creek Flow Direction
- Mill Creek
- Top of Bluff
- - - Inferred Top of Bluff
- Bottom of Bluff
- - - Inferred Bottom of Bluff
- Secondary Bluff Area
- Uranium Isoconcentration Contour (30 µg/L)
- - - Uranium Inferred Isoconcentration Contour (µg/L)
- - - Uranium Isoconcentration Contour at or Above the Minimum Detectable Concentration (µg/L)
- 446 Total Uranium in µg/L
- J Result below reporting limit
- EL Former East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2

### Notes:

Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

0 200 400  
1 inch = 400 feet

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet

Datum: North American 1983

**AECOM**

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### Extent of Uranium in Groundwater April 2023

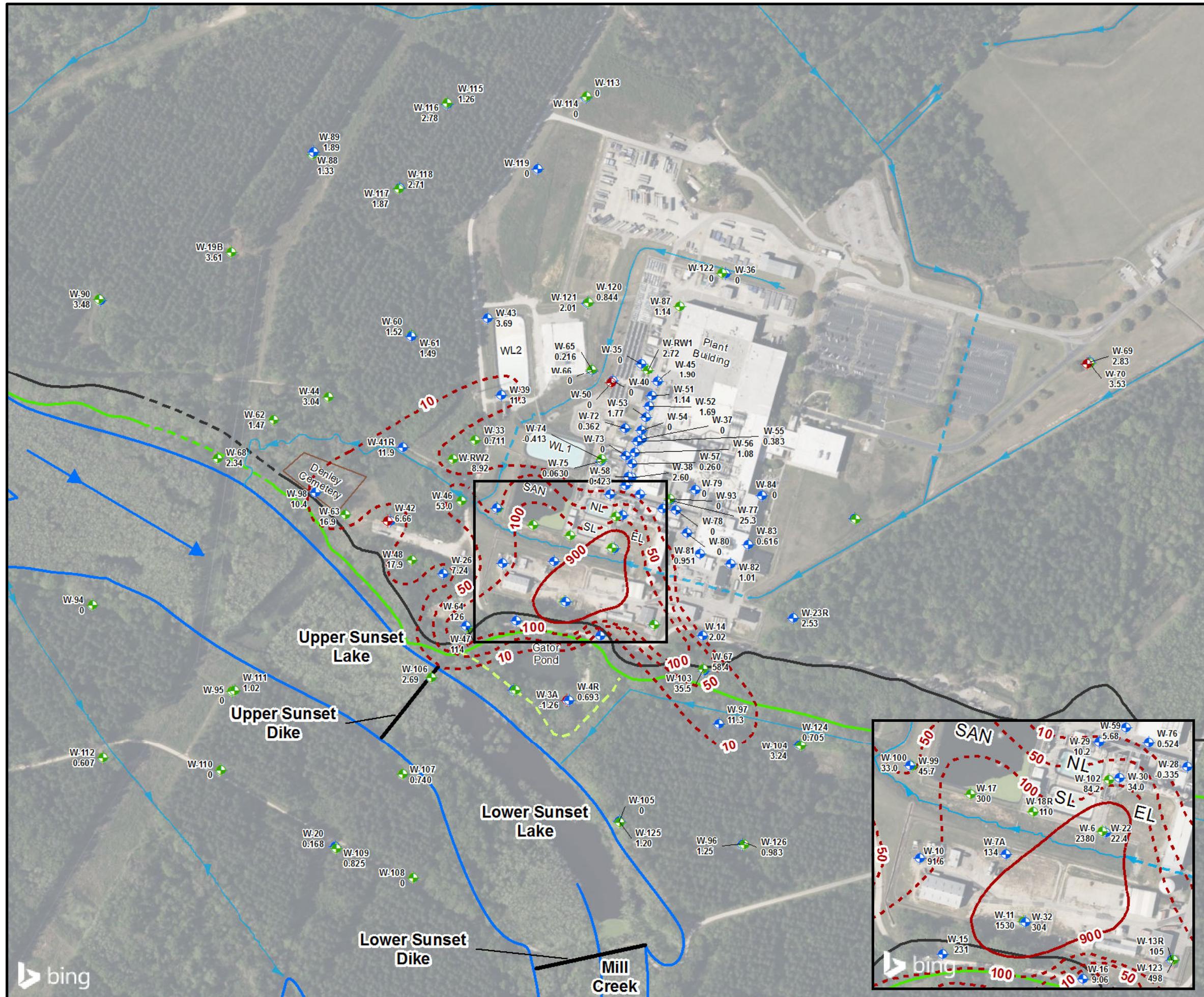
WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY  
HOPKINS, SOUTH CAROLINA

PROJECT NO.  
60700386

PREPARED BY:  
CCS

DATE:  
August 2023

FIGURE 26



### Legend

- Surficial Aquifer - Upper Zone Monitoring Well
- Surficial Aquifer - Lower Zone Monitoring Well
- Black Creek Aquifer Monitoring Well
- Ditch
- Culvert
- Dike Location
- Mill Creek Flow Direction
- Mill Creek
- Top of Bluff
- Inferred Top of Bluff
- Bottom of Bluff
- Inferred Bottom of Bluff
- Secondary Bluff Area
- Tc-99 Isoconcentration Contour (900 pCi/L)
- Tc-99 Isoconcentration Contour at or Above the Minimum Detectable Concentration (pCi/L)
- 2380 Techneutrium-99 Concentration in pCi/L
- 0 Concentration reported as a negative number by the analytical laboratory
- EL Former East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2

#### Notes:

Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

Wells displaying two concentration values had a quality control duplicate sample taken.

0 200 400  
1 inch = 400 feet

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet

Datum: North American 1983

**AECOM**

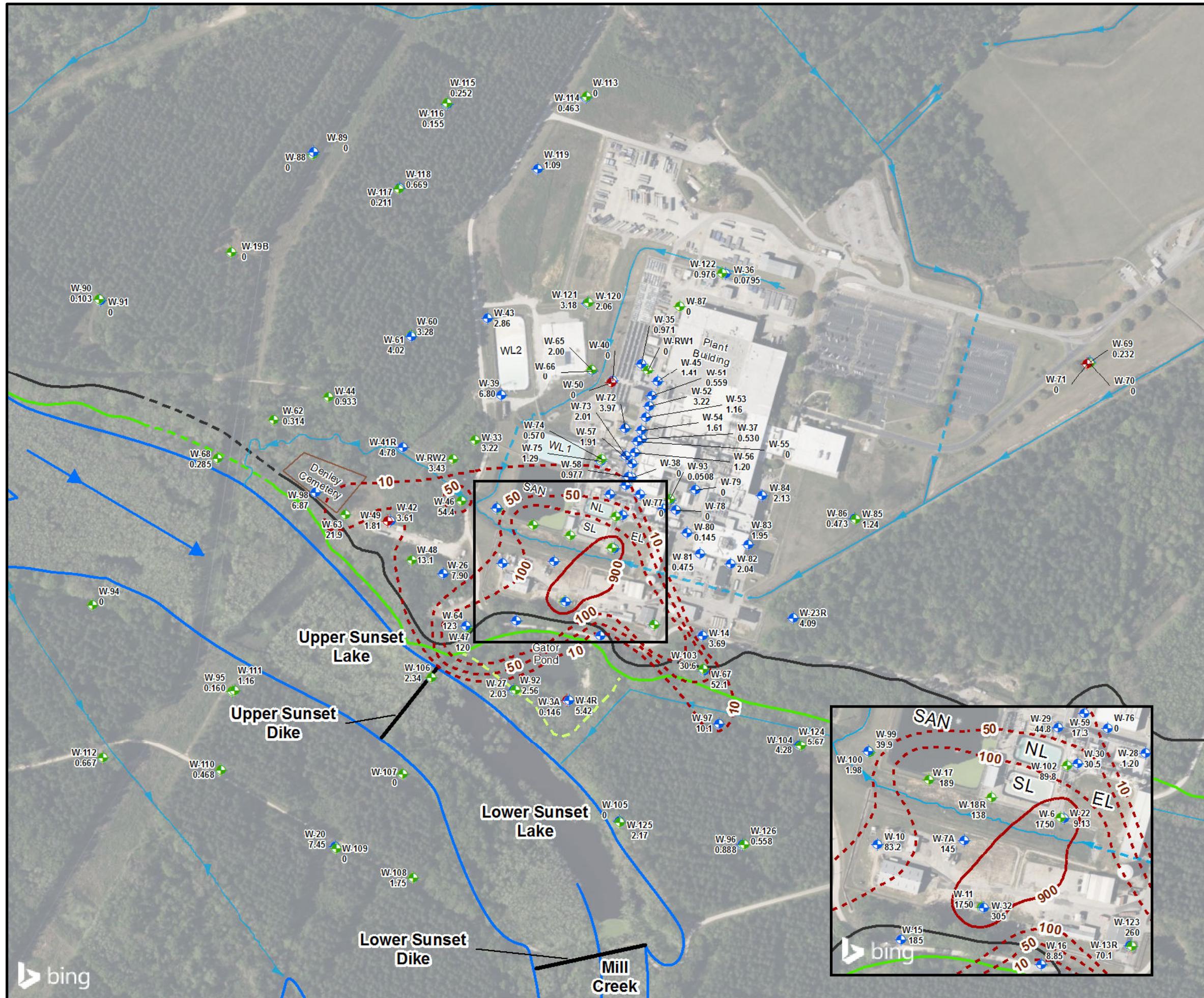
101 Research Drive  
Columbia, SC 29203  
T: (803) 254-4400 F: (803) 771-6676

### Extent of Techneutrium-99 in Groundwater October 2022

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY  
HOPKINS, SOUTH CAROLINA

PROJECT NO. 60700386	PREPARED BY: CCS	DATE: August 2023
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**FIGURE 27**



### Legend

- Surficial Aquifer - Upper Zone Monitoring Well
- Surficial Aquifer - Lower Zone Monitoring Well
- Black Creek Aquifer Monitoring Well
- Ditch
- Culvert
- Dike Location
- Mill Creek Flow Direction
- Mill Creek
- Top of Bluff
- Inferred Top of Bluff
- Bottom of Bluff
- Inferred Bottom of Bluff
- Secondary Bluff Area
- Tc-99 Isoconcentration Contour (900 pCi/L)
- Tc-99 Isoconcentration Contour at or Above the Minimum Detectable Concentration (pCi/L)
- 1,750 Techneutrium-99 Concentration in pCi/L
- 0 Concentration reported as a negative number by the analytical laboratory
- EL Former East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2

### Notes:

Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

0 200 400  
1 inch = 400 feet

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet

Datum: North American 1983

**AECOM**

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### Extent of Technetium-99 in Groundwater April 2023

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY  
HOPKINS, SOUTH CAROLINA

PROJECT NO. 60700386	PREPARED BY: CCS	DATE: August 2023	FIGURE 28
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## Tables

Table 1 - Monitoring Well Construction Details  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Number	Northing	Easting	Date Installed	Ground Surface Elevation (ft msl)	Top of Casing Elevation (ft msl)	Casing Stickup (ft)	Well Diameter (in)	Casing Type	Total Depth (ft bgs)	Screen Length (ft)	Screen Interval (ft bgs)	Classification
W-RW-1	745689.8390	2024255.5150	4/1/1995	136.00	136.95	0.95	4.0	Steel	32.17	10	22-32	Surficial - Lower Zone
W-RW2	745325.1547	2023458.2190	3/10/1995	136.98	139.93	2.95	4.0	Steel	28.40	10	18.5-28.5	Surficial - Lower Zone
W-3A	744340.2273	2023926.2926	6/11/1985	117.64	120.08	2.44	2.0	PVC	82.86	10	73-83	Black Creek
W-4	744343.6686	2023959.5730	1977	116.50	116.09	-0.41	4.0	PVC	14.55	2	4.5-14.5	Surficial - Upper Zone
W-6	744963.2941	2024109.6154	5/15/1980	136.96	136.46	-0.50	2.0	PVC	27.80	5	23-28	Surficial - Lower Zone
W-7A	744907.4275	2023872.2237	2/19/1992	132.94	135.06	2.12	2.0	PVC	17.95	5	13-18	Surficial - Upper Zone
W-10	744897.8502	2023659.8964	5/14/1980	136.89	136.81	-0.08	2.0	PVC	22.31	5	17.5-22.5	Surficial - Upper Zone
W-11	744743.0468	2023914.5566	5/14/1980	138.45	140.76	2.31	2.0	PVC	24.97	3	22-25	Surficial - Upper Zone
W-13R	744648.7070	2024279.2522	10/8/2010	136.38	136.13	-0.25	2.0	PVC	27.47	5	15-20	Surficial - Upper Zone
W-14	744603.1956	2024478.6507	5/4/1988	136.22	137.83	1.61	2.0	PVC	28.91	5	24-29	Surficial - Upper Zone
W-15	744663.4226	2023716.7929	5/15/1980	126.67	127.90	1.23	2.0	PVC	20.71	5	15.5-20.5	Surficial - Upper Zone
W-16	744602.3196	2024060.2560	5/15/1980	125.64	124.93	-0.71	2.0	PVC	14.15	3	11-14	Surficial - Upper Zone
W-17	745055.2186	2023785.3818	5/30/1980	137.57	139.27	1.70	2.0	PVC	27.97	5	23-28	Surficial - Lower Zone
W-18R	745012.6889	2023939.2527	Unknown	137.15	136.71	-0.44	2.0	PVC	27.60	5	22.5-27.5	Surficial - Lower Zone
W-19B	746172.6764	2022552.9543	3/17/1995	140.58	142.85	2.27	4.0	PVC	40.67	10	30.5-40.5	Surficial - Lower Zone
W-20	743739.6310	2022975.3834	7/10/1980	113.27	116.16	2.89	2.0	PVC	15.61	5	10.5-15.5	Surficial - Upper Zone
W-22	744960.9243	2024116.3963	7/12/1980	137.08	136.51	-0.57	2.0	PVC	15.10	5	10-15	Surficial - Upper Zone
W-23R	744674.7363	2024851.2620	7/22/2011	137.45	140.47	3.02	2.0	PVC	20.93	5	16-21	Surficial - Upper Zone
W-24	746742.5552	2027344.7554	7/9/1980	139.83	141.94	2.11	2.0	PVC	14.99	5	10-15	Surficial - Upper Zone
W-25	742114.3330	2022728.9859	7/9/1980	114.98	115.88	0.90	2.0	PVC	27.37	5	22.5-27.5	Surficial - Upper Zone
W-26	744855.2926	2023417.6899	7/11/1980	140.59	142.21	1.62	2.0	PVC	30.65	5	25.5-30.5	Surficial - Upper Zone
W-27	744383.9028	2023708.2286	7/13/1980	120.22	121.87	1.65	2.0	PVC	14.77	5	10-15	Surficial - Upper Zone
W-28	745121.7794	2024317.4127	7/13/1980	136.98	138.88	1.90	2.0	PVC	15.30	5	10-15	Surficial - Upper Zone
W-29	745182.7704	2024101.6410	7/12/1980	136.96	138.61	1.65	2.0	PVC	13.96	5	9-14	Surficial - Upper Zone
W-30	745095.1563	2024150.8369	7/11/1980	136.87	138.81	1.94	2.0	PVC	14.83	5	10-15	Surficial - Upper Zone
W-32	744742.1011	2023919.8088	7/15/1980	138.33	140.34	2.01	2.0	PVC	21.89	5	17-22	Surficial - Upper Zone
W-33	745402.9946	2023548.6640	7/15/1980	138.06	139.33	1.27	2.0	PVC	19.86	5	15-20	Surficial - Lower Zone
W-35	745716.6972	2024227.9328	2/18/1992	136.59	139.07	2.48	2.0	PVC	20.38	5	15.5-20.5	Surficial - Upper Zone
W-36	746084.8252	2024573.1745	2/19/1992	134.16	136.29	2.13	2.0	PVC	19.80	5	15-20	Surficial - Upper Zone
W-37	745407.3901	2024230.7318	2/11/1992	136.58	139.04	2.46	2.0	PVC	20.41	5	15.5-20.5	Surficial - Upper Zone
W-38	745250.3065	2024192.9679	2/18/1992	136.71	136.51	-0.20	2.0	PVC	20.15	5	15-20	Surficial - Upper Zone
W-39	745587.4130	2023656.6724	1/27/1994	139.08	141.15	2.07	2.0	PVC	23.04	10	13-23	Surficial - Upper Zone
W-40	745646.5324	2024112.4795	7/18/1984	136.42	139.26	2.84	2.0	PVC	14.38	10	4.5-14.5	Surficial - Upper Zone
W-41R	745372.8885	2023252.5925	Unknown	131.02	133.81	2.79	2.0	PVC	24.34	10	14.5-24.5	Surficial - Upper Zone
W-42	745072.3463	2023203.3177	1/27/1994	137.83	140.96	3.13	2.0	PVC	29.89	10	20-30	Surficial - Upper Zone
W-43	745904.3053	2023600.1186	1/27/1994	138.09	141.33	3.24	2.0	PVC	21.01	10	11-21	Surficial - Upper Zone
W-44	745579.8931	2022950.1077	2/1/1994	131.93	134.86	2.93	2.0	PVC	27.04	10	17-27	Surficial - Lower Zone
W-45	745644.0322	2024296.0965	7/18/1984	137.20	140.02	2.82	2.0	PVC	15.38	10	5.5-15.5	Surficial - Upper Zone
W-46	745154.5936	2023494.4570	3/27/1995	132.39	134.74	2.35	4.0	PVC	25.85	10	16-26	Surficial - Lower Zone
W-47	744633.7657	2023515.8706	3/31/1995	140.70	141.90	1.20	4.0	PVC	45.60	10	34.5-44.5	Surficial - Lower Zone

Table 1 - Monitoring Well Construction Details  
 Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Number	Northing	Easting	Date Installed	Ground Surface Elevation (ft msl)	Top of Casing Elevation (ft msl)	Casing Stickup (ft)	Well Diameter (in)	Casing Type	Total Depth (ft bgs)	Screen Length (ft)	Screen Interval (ft bgs)	Classification
W-48	744913.2226	2023290.4438	3/30/1995	139.74	142.56	2.82	4.0	PVC	41.68	10	31.5-41.5	Surficial - Lower Zone
W-49	745073.2286	2023192.6302	3/15/1995	137.82	140.25	2.43	2.0	PVC	117.77	10	108-118	Black Creek
W-50	745637.2219	2024107.3993	3/21/1995	136.79	139.58	2.79	2.0	PVC	125.01	10	115-125	Black Creek
W-51	745583.8582	2024270.8300	9/19/2018	136.67	136.51	-0.16	2.0	PVC	14.71	5	9.5-14.5	Surficial - Upper Zone
W-52	745542.3624	2024260.1657	9/19/2018	136.71	136.19	-0.52	2.0	PVC	15.52	5	10.5-15.5	Surficial - Upper Zone
W-53	745495.9968	2024247.5619	9/19/2018	136.83	136.54	-0.29	2.0	PVC	15.75	5	11-16	Surficial - Upper Zone
W-54	745442.5511	2024229.9796	9/19/2018	136.79	136.52	-0.27	2.0	PVC	15.82	5	11-16	Surficial - Upper Zone
W-55	745397.6509	2024214.0049	9/20/2018	136.90	136.63	-0.27	2.0	PVC	15.24	5	10-15	Surficial - Upper Zone
W-56	745351.3097	2024203.7460	9/20/2018	136.83	136.68	-0.15	2.0	PVC	15.13	5	10-15	Surficial - Upper Zone
W-57	745307.4270	2024190.7853	9/20/2018	136.90	136.73	-0.17	2.0	PVC	15.12	5	10-15	Surficial - Upper Zone
W-58	745254.0864	2024176.3347	9/18/2018	136.85	136.37	-0.48	2.0	PVC	15.47	5	10.5-15.5	Surficial - Upper Zone
W-59	745219.3681	2024165.8802	9/18/2018	136.10	136.42	0.32	2.0	PVC	14.65	5	9.5-14.5	Surficial - Upper Zone
W-60	745835.5835	2023286.8131	10/8/2018	137.25	140.20	2.95	2.0	PVC	37.87	5	33-38	Surficial - Lower Zone
W-61	745829.2570	2023288.2599	10/9/2018	137.34	140.60	3.26	2.0	PVC	23.50	10	13.5-23.5	Surficial - Upper Zone
W-62	745485.4613	2022726.0792	10/9/2018	125.63	128.38	2.75	2.0	PVC	24.85	5	20-25	Surficial - Lower Zone
W-63	745098.1342	2023019.4184	10/10/2018	138.78	141.02	2.24	2.0	PVC	41.90	5	37-42	Surficial - Lower Zone
W-64	744643.8030	2023511.3331	10/10/2018	140.15	142.75	2.60	2.0	PVC	31.60	10	21.5-31.5	Surficial - Upper Zone
W-65	745693.7040	2024027.4543	10/12/2018	138.17	140.95	2.78	2.0	PVC	31.69	5	26.5-31.5	Surficial - Lower Zone
W-66	745687.8186	2024027.1699	10/12/2018	138.01	140.91	2.90	2.0	PVC	22.35	10	12.5-22.5	Surficial - Upper Zone
W-67	744459.5852	2024485.7938	10/15/2018	132.60	135.26	2.66	2.0	PVC	31.81	10	22-32	Surficial - Upper Zone
W-68	745329.2457	2022496.2174	11/1/2018	113.40	116.53	3.13	2.0	PVC	18.14	5	13-18	Surficial - Lower Zone
W-69	745726.9177	2026064.2900	6/11/2019	137.67	140.64	2.97	2.0	PVC	18.08	10	8-18	Surficial - Upper Zone
W-70	745719.2209	2026062.8740	6/20/2019	138.02	141.00	2.98	2.0	PVC	48.92	5	44-49	Surficial - Lower Zone
W-71	745716.6462	2026052.3340	9/19/2019	137.96	140.72	2.77	2.0	PVC	102.83	10	93-103	Black Creek
W-72	745450.2503	2024162.6920	6/30/2019	136.81	136.29	-0.53	2.0	PVC	15.01	10	5-15	Surficial - Upper Zone
W-73	745339.3056	2024166.2500	6/30/2019	136.85	136.45	-0.40	2.0	PVC	16.00	10	6-16	Surficial - Upper Zone
W-74	745325.1257	2024067.1720	9/17/2019	136.64	139.93	3.29	2.0	PVC	30.60	5	25.5-30.5	Surficial - Lower Zone
W-75	745317.2335	2024064.7580	9/17/2019	136.60	139.85	3.25	2.0	PVC	15.33	10	5.5-15.5	Surficial - Upper Zone
W-76	745181.1851	2024223.5230	6/29/2019	137.04	136.85	-0.19	2.0	PVC	15.14	10	5-15	Surficial - Upper Zone
W-77	745158.9297	2024346.1090	9/18/2019	136.85	136.53	-0.32	2.0	PVC	15.62	10	5.5-15.5	Surficial - Upper Zone
W-78	745117.7529	2024371.0300	9/19/2019	136.75	136.31	-0.44	2.0	PVC	15.57	10	5.5-15.5	Surficial - Upper Zone
W-79	745200.3957	2024450.2660	6/29/2019	136.49	136.12	-0.38	2.0	PVC	15.67	10	5.5-15.5	Surficial - Upper Zone
W-80	745024.3899	2024414.6850	6/29/2019	136.34	135.87	-0.47	2.0	PVC	15.75	10	5.5-15.5	Surficial - Upper Zone
W-81	744938.6049	2024469.8490	6/29/2019	136.81	136.43	-0.39	2.0	PVC	15.69	10	5.5-15.5	Surficial - Upper Zone
W-82	744895.9297	2024594.1720	6/29/2019	136.57	136.23	-0.34	2.0	PVC	15.62	10	5.5-15.5	Surficial - Upper Zone
W-83	744975.0629	2024667.4890	6/29/2019	136.22	135.81	-0.41	2.0	PVC	26.43	10	16.5-26.5	Surficial - Upper Zone
W-84	745177.2489	2024721.4980	6/30/2019	136.66	135.99	-0.67	2.0	PVC	20.97	10	11-21	Surficial - Upper Zone
W-85	745079.7122	2025107.6820	6/11/2019	135.74	138.69	2.95	2.0	PVC	44.82	5	40-45	Surficial - Lower Zone
W-86	745082.2852	2025100.8040	6/11/2019	135.68	138.77	3.09	2.0	PVC	35.08	10	25-35	Surficial - Upper Zone
W-87	745952.7641	2024385.8120	6/30/2019	136.66	136.39	-0.27	2.0	PVC	33.15	5	28-33	Surficial - Lower Zone

Table 1 - Monitoring Well Construction Details  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Number	Northing	Easting	Date Installed	Ground Surface Elevation (ft msl)	Top of Casing Elevation (ft msl)	Casing Stickup (ft)	Well Diameter (in)	Casing Type	Total Depth (ft bgs)	Screen Length (ft)	Screen Interval (ft bgs)	Classification
W-88	746574.7739	2022883.9580	6/17/2019	140.06	143.10	3.04	2.0	PVC	41.38	5	36.5-41.5	Surficial - Lower Zone
W-89	746583.3384	2022888.2490	6/13/2019	140.12	142.82	2.70	2.0	PVC	25.53	10	15.5-25.5	Surficial - Upper Zone
W-90	745981.1215	2022011.5510	6/13/2019	140.23	143.33	3.10	2.0	PVC	39.99	5	35-40	Surficial - Lower Zone
W-91	745976.3596	2022016.7650	6/13/2019	139.57	142.81	3.24	2.0	PVC	25.07	10	15-25	Surficial - Upper Zone
W-92	744382.4699	2023714.9210	6/12/2019	120.11	123.33	3.22	2.0	PVC	33.78	5	29-34	Surficial - Lower Zone
W-93	745162.2579	2024346.8430	9/18/2019	136.87	136.49	-0.38	2.0	PVC	35.36	5	30.5-35.5	Surficial - Lower Zone
W-94	744728.0254	2021983.5560	9/17/2019	115.28	118.04	2.76	2.0	PVC	29.48	5	24.5-29.5	Surficial - Lower Zone
W-95	744375.6603	2022553.4620	9/17/2019	113.53	116.40	2.86	2.0	PVC	33.43	5	28.5-33.5	Surficial - Lower Zone
W-96	743746.7835	2024643.8120	9/17/2019	113.65	116.46	2.81	2.0	PVC	29.96	5	25-30	Surficial - Upper Zone
W-97	744244.0503	2024547.7590	9/17/2019	113.92	116.93	3.01	2.0	PVC	18.94	5	14-19	Surficial - Upper Zone
W-98	745190.4186	2022894.5358	1/29/2021	135.52	138.65	3.13	2.0	PVC	26.72	10	17-27	Surficial - Upper Zone
W-99	745123.5105	2023640.5364	1/27/2021	129.78	133.84	4.06	2.0	PVC	19.77	5	16-21	Surficial - Lower Zone
W-100	745126.2199	2023636.3622	1/28/2021	129.47	133.47	4.00	2.0	PVC	11.07	5	7-12	Surficial - Upper Zone
W-102	745090.1200	2024124.4415	12/9/2020	137.08	136.86	-0.22	2.0	PVC	33.72	5	28.5-33.5	Surficial - Lower Zone
W-103	744466.6874	2024483.1317	1/27/2021	132.56	134.87	2.32	2.0	PVC	39.41	5	34.5-39.5	Surficial - Lower Zone
W-104	744154.7155	2024875.5065	1/25/2021	115.45	118.48	3.03	2.0	PVC	17.37	10	7.5-17.5	Surficial - Upper Zone
W-105	743843.4667	2024138.0034	1/26/2021	114.80	117.57	2.77	2.0	PVC	24.13	10	14-24	Surficial - Upper Zone
W-106	744431.5527	2023371.3176	2/15/2021	115.68	118.69	3.01	2.0	PVC	29.66	5	24.5-29.5	Surficial - Lower Zone
W-107	744034.1147	2023252.1811	1/25/2021	112.27	115.23	2.96	2.0	PVC	34.39	5	29-34	Surficial - Lower Zone
W-108	743611.3486	2023295.2256	1/28/2021	111.93	115.41	3.49	2.0	PVC	32.35	5	27-32	Surficial - Lower Zone
W-109	743731.8238	2022981.0635	1/28/2021	112.81	115.68	2.87	2.0	PVC	32.15	5	27-32	Surficial - Lower Zone
W-110	744051.9526	2022508.2574	1/27/2021	113.21	116.42	3.21	2.0	PVC	33.69	5	29-34	Surficial - Lower Zone
W-111	744378.2719	2022564.9340	1/26/2021	113.68	116.92	3.24	2.0	PVC	81.16	5	76-81	Surficial - Lower Zone
W-112	744101.6181	2022027.5127	1/27/2021	112.93	116.07	3.14	2.0	PVC	33.76	5	29-34	Surficial - Lower Zone
Gator SG	744600.5136	2023820.4020	7/16/2019	NS	120.31	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Canal SG	743544.9360	2019700.8031	3/26/2021	NS	110.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Entrance SG	745852.1977	2020536.5766	3/26/2021	NS	112.57	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Upper SG	744292.2317	2023220.4190	7/16/2019	NS	112.41	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Upper 2 SG	745845.6181	2020600.6309	4/20/2021	NS	112.56	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lower SG	743333.8536	2024092.0010	7/16/2019	NS	112.39	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Creek SG	743263.2548	2024076.8640	7/16/2019	NS	109.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:

ft = feet

in = inches

ft msl = feet above mean sea level

ft bgs = feet below ground surface

NS - not surveyed

N/A - not applicable

SG - staff gauge

Top of casing and ground surface elevations surveyed by AECOM during November 2018, November 2019, April 2021 and August 2021.

Horizontal coordinates are referenced to the State Plane Coordinate System and the North American Datum of 1983 (NAD 83).

Vertical locations are referenced to the North American Vertical Datum of 1988 (NAVD 88).

Table 2 - Groundwater Levels and Elevations  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well	Date	Screen Interval (ft bgs)	Ground Elevation (ft)	Top of Casing Elevation (ft)	Depth to Water (ft btoc)	Water Elevation (ft)
W-RW1	10/03/22	22-32	136.00	136.95	9.72	127.23
W-RW1	04/03/23	22-32	136.00	136.95	8.66	128.29
W-RW2	10/03/22	18.5-28.5	136.98	139.93	18.39	121.54
W-RW2	04/03/23	18.5-28.5	136.98	139.93	17.99	121.94
W-3A	10/03/22	73-83	117.64	120.08	8.27	111.81
W-3A	04/03/23	73-83	117.64	120.08	5.02	115.06
W-4R	10/03/22	4.5-14.5	117.27	119.82	12.90	106.92
W-4R	04/03/23	4.5-14.5	117.27	119.82	5.60	114.22
W-6	10/03/22	23-28	136.96	136.46	10.91	125.55
W-6	04/03/23	23-28	136.96	136.46	10.16	126.3
W-7A	10/03/22	13-18	132.94	135.06	11.76	123.30
W-7A	04/03/23	13-18	132.94	135.06	11.12	123.94
W-10	10/03/22	17.5-22.5	136.89	136.81	15.85	120.96
W-10	04/03/23	17.5-22.5	136.89	136.81	15.11	121.7
W-11	10/03/22	22-25	138.45	140.76	18.81	121.95
W-11	04/03/23	22-25	138.45	140.76	17.75	123.01
W-13R	10/03/22	15-20	136.38	136.13	12.71	123.42
W-13R	04/03/23	15-20	136.38	136.13	11.60	124.53
W-14	10/03/22	24-29	136.22	136.13	17.51	120.32
W-14	04/03/23	24-29	136.22	136.13	15.74	120.39
W-15	10/03/22	15.5-20.5	126.67	127.90	12.81	115.09
W-15	04/03/23	15.5-20.5	126.67	127.90	11.44	116.46
W-16	10/03/22	11-14	125.64	124.93	4.45	120.48
W-16	04/03/23	11-14	125.64	124.93	3.25	121.68
W-17	10/03/22	23-28	137.57	139.27	14.18	125.09
W-17	04/03/23	23-28	137.57	139.27	13.78	125.49
W-18R	10/03/22	22.5-27.5	137.15	136.71	11.71	125.00
W-18R	04/03/23	22.5-27.5	137.15	136.71	11.18	125.53
W-19B	10/03/22	30.5-40.5	140.58	142.85	26.04	116.81
W-19B	04/03/23	30.5-40.5	140.58	142.85	25.62	117.23
W-20	10/03/22	10.5-15.5	113.27	116.16	9.29	106.87
W-20	04/03/23	10.5-15.5	113.27	116.16	6.55	109.61
W-22	10/03/22	10-15	137.08	136.51	10.93	125.58
W-22	04/03/23	10-15	137.08	136.51	10.11	126.4
W-23R	10/03/22	16-21	137.45	140.47	19.72	120.75
W-23R	04/03/23	16-21	137.45	140.47	18.69	121.78
W-24	10/03/22	10-15	139.83	141.94	11.26	130.68
W-24	04/03/23	10-15	139.83	141.94	6.80	135.14
W-25	10/03/22	22.5-27.5	114.98	115.88	9.84	106.04
W-25	04/03/23	22.5-27.5	114.98	115.88	7.06	108.82
W-26	10/03/22	25.5-30.5	140.59	142.21	26.52	115.69
W-26	04/03/23	25.5-30.5	140.59	142.21	24.98	117.23
W-27	10/03/22	10-15	120.22	121.87	10.81	111.06
W-27	04/03/23	10-15	120.22	121.87	9.47	112.4
W-28	10/03/22	10-15	136.98	138.88	12.60	126.28

Table 2 - Groundwater Levels and Elevations  
 Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well	Date	Screen Interval (ft bgs)	Ground Elevation (ft)	Top of Casing Elevation (ft)	Depth to Water (ft btoc)	Water Elevation (ft)
W-28	04/03/23	10-15	136.98	138.88	11.93	126.95
W-29	10/03/22	9-14	136.96	138.61	12.39	126.22
W-29	04/03/23	9-14	136.96	138.61	11.79	126.82
W-30	10/03/22	10-15	136.87	138.81	12.58	126.23
W-30	04/03/23	10-15	136.87	138.81	11.98	126.83
W-32	10/03/22	17-22	138.33	140.34	19.27	121.07
W-32	04/03/23	17-22	138.33	140.34	18.65	121.69
W-33	10/03/22	15-20	138.06	139.33	15.61	123.72
W-33	04/03/23	15-20	138.06	139.33	15.04	124.29
W-35	10/03/22	15.5-20.5	136.59	139.07	11.83	127.24
W-35	04/03/23	15.5-20.5	136.59	139.07	10.80	128.27
W-36	10/03/22	15-20	134.16	136.29	8.63	127.66
W-36	04/03/23	15-20	134.16	136.29	7.37	128.92
W-37	10/03/22	15.5-20.5	136.58	139.04	12.09	126.95
W-37	04/03/23	15.5-20.5	136.58	139.04	11.17	127.87
W-38	10/03/22	15-20	136.71	136.51	10.58	125.93
W-38	04/03/23	15-20	136.71	136.51	10.05	126.46
W-39	10/03/22	13-23	139.08	141.15	16.06	125.09
W-39	04/03/23	13-23	139.08	141.15	15.18	125.97
W-40	10/03/22	4.5-14.5	136.42	139.26	12.00	127.26
W-40	04/03/23	4.5-14.5	136.42	139.26	10.97	128.29
W-41R	10/03/22	14.5-24.5	131.02	133.81	15.87	117.94
W-41R	04/03/23	14.5-24.5	131.02	133.81	15.38	118.43
W-42	10/03/22	20-30	137.83	140.96	26.15	114.81
W-42	04/03/23	20-30	137.83	140.96	23.90	117.06
W-43	10/03/22	11-21	138.09	141.33	15.42	125.91
W-43	04/03/23	11-21	138.09	141.33	11.89	129.44
W-44	10/03/22	17-27	131.93	134.86	18.78	116.08
W-44	04/03/23	17-27	131.93	134.86	18.07	116.79
W-45	10/03/22	5.5-15.5	137.20	140.02	12.87	127.15
W-45	04/03/23	5.5-15.5	137.20	140.02	11.88	128.14
W-46	10/03/22	16-26	132.39	134.74	13.77	120.97
W-46	04/03/23	16-26	132.39	134.74	13.29	121.45
W-47	10/03/22	34.5-44.5	140.70	141.90	27.05	114.85
W-47	04/03/23	34.5-44.5	140.70	141.90	25.61	116.29
W-48	10/03/22	31.5-41.5	139.74	142.56	27.30	115.26
W-48	04/03/23	31.5-41.5	139.74	142.56	25.58	116.98
W-49	10/03/22	108-118	137.82	140.25	30.15	110.10
W-49	04/03/23	108-118	137.82	140.25	26.89	113.36
W-50	10/03/22	115-125	136.79	139.58	24.70	114.88
W-50	04/03/23	115-125	136.79	139.58	21.62	117.96
W-51	10/03/22	9.5-14.5	136.67	136.51	9.35	127.16
W-51	04/03/23	9.5-14.5	136.67	136.51	8.36	128.15
W-52	10/03/22	10.5-15.5	136.71	136.19	9.18	127.01
W-52	04/03/23	10.5-15.5	136.71	136.19	8.22	127.97

Table 2 - Groundwater Levels and Elevations  
 Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well	Date	Screen Interval (ft bgs)	Ground Elevation (ft)	Top of Casing Elevation (ft)	Depth to Water (ft btoc)	Water Elevation (ft)
W-53	10/03/22	11-16	136.83	136.54	9.53	127.01
W-53	04/03/23	11-16	136.83	136.54	8.67	127.87
W-54	10/03/22	11-16	136.79	136.52	9.58	126.94
W-54	04/03/23	11-16	136.79	136.52	8.84	127.68
W-55	10/03/22	10-15	136.90	136.63	9.73	126.90
W-55	04/03/23	10-15	136.90	136.63	8.94	127.69
W-56	10/03/22	10-15	136.83	136.68	9.77	126.91
W-56	04/03/23	10-15	136.83	136.68	9.53	127.15
W-57	10/03/22	10-15	136.90	136.73	10.17	126.56
W-57	04/03/23	10-15	136.90	136.73	10.20	126.53
W-58	10/03/22	10.5-15.5	136.85	136.37	10.81	125.56
W-58	04/03/23	10.5-15.5	136.85	136.37	10.52	125.85
W-59	10/03/22	9.5-14.5	136.10	136.42	11.04	125.38
W-59	04/03/23	9.5-14.5	136.10	136.42	8.88	127.54
W-60	10/03/22	33-38	137.25	140.20	22.95	117.25
W-60	04/03/23	33-38	137.25	140.20	22.37	117.83
W-61	10/03/22	13.5-23.5	137.34	140.60	19.44	121.16
W-61	04/03/23	13.5-23.5	137.34	140.60	17.80	122.8
W-62	10/03/22	20-25	125.63	128.38	13.77	114.61
W-62	04/03/23	20-25	125.63	128.38	13.18	115.2
W-63	10/03/22	37-42	138.78	141.02	27.02	114.00
W-63	04/03/23	37-42	138.78	141.02	25.80	115.22
W-64	10/03/22	21.5-31.5	140.15	142.75	27.40	115.35
W-64	04/03/23	21.5-31.5	140.15	142.75	25.91	116.84
W-65	10/03/22	26.5-31.5	138.17	140.95	14.04	126.91
W-65	04/03/23	26.5-31.5	138.17	140.95	12.89	128.06
W-66	10/03/22	12.5-22.5	138.01	140.91	13.78	127.13
W-66	04/03/23	12.5-22.5	138.01	140.91	13.63	127.28
W-67	10/03/22	22-32	132.60	135.26	18.46	116.80
W-67	04/03/23	22-32	132.60	135.26	16.28	118.98
W-68	10/03/22	13-18	113.40	116.53	7.02	109.51
W-68	04/03/23	13-18	113.40	116.53	5.31	111.22
W-69	10/03/22	8-18	137.67	140.64	9.54	131.10
W-69	04/03/23	8-18	137.67	140.64	6.60	134.04
W-70	10/03/22	44-49	138.02	141.00	14.04	126.96
W-70	04/03/23	44-49	138.02	141.00	9.83	131.17
W-71	10/03/22	93-103	137.96	140.72	25.42	115.30
W-71	04/03/23	93-103	137.96	140.72	22.38	118.34
W-72	10/03/22	5-15	136.81	136.29	9.30	126.99
W-72	04/03/23	5-15	136.81	136.29	8.37	127.92
W-73	10/03/22	6-16	136.85	136.45	9.63	126.82
W-73	04/03/23	6-16	136.85	136.45	8.63	127.82
W-74	10/03/22	25.5-30.5	136.64	139.93	13.40	126.53
W-74	04/03/23	25.5-30.5	136.64	139.93	12.60	127.33
W-75	10/03/22	5.5-15.5	136.60	139.85	13.05	126.80

Table 2 - Groundwater Levels and Elevations  
 Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well	Date	Screen Interval (ft bgs)	Ground Elevation (ft)	Top of Casing Elevation (ft)	Depth to Water (ft btoc)	Water Elevation (ft)
W-75	04/03/23	5.5-15.5	136.60	139.85	12.22	127.63
W-76	10/03/22	5-15	137.04	136.85	10.63	126.22
W-76	04/03/23	5-15	137.04	136.85	10.01	126.84
W-77	10/03/22	5.5-15.5	136.85	136.53	9.36	127.17
W-77	04/03/23	5.5-15.5	136.85	136.53	8.33	128.2
W-78	10/03/22	5.5-15.5	136.75	136.31	10.02	126.29
W-78	04/03/23	5.5-15.5	136.75	136.31	9.36	126.95
W-79	10/03/22	5.5-15.5	136.49	136.12	8.85	127.27
W-79	04/03/23	5.5-15.5	136.49	136.12	8.18	127.94
W-80	10/03/22	5.5-15.5	136.34	135.87	10.84	125.03
W-80	04/03/23	5.5-15.5	136.34	135.87	11.87	124
W-81	10/03/22	5.5-15.5	136.81	136.43	12.18	124.25
W-81	04/03/23	5.5-15.5	136.81	136.43	11.18	125.25
W-82	10/03/22	5.5-15.5	136.57	136.23	12.82	123.41
W-82	04/03/23	5.5-15.5	136.57	136.23	11.67	124.56
W-83	10/03/22	16.5-26.5	136.22	135.81	14.50	121.31
W-83	04/03/23	16.5-26.5	136.22	135.81	13.63	122.18
W-84	10/03/22	11-21	136.66	135.99	7.24	128.75
W-84	04/03/23	11-21	136.66	135.99	6.03	129.96
W-85	10/03/22	40-45	135.74	138.69	21.39	117.30
W-85	04/03/23	40-45	135.74	138.69	18.89	119.8
W-86	10/03/22	25-35	135.68	138.77	20.25	118.52
W-86	04/03/23	25-35	135.68	138.77	17.89	120.88
W-87	10/03/22	28-33	136.66	136.39	9.03	127.36
W-87	04/03/23	28-33	136.66	136.39	7.95	128.44
W-88	10/03/22	36.5-41.5	140.06	143.10	24.52	118.58
W-88	04/03/23	36.5-41.5	140.06	143.10	23.44	119.66
W-89	10/03/22	15.5-25.5	140.12	142.82	23.39	119.43
W-89	04/03/23	15.5-25.5	140.12	142.82	22.63	120.19
W-90	10/03/22	35-40	140.23	143.33	28.22	115.11
W-90	04/03/23	35-40	140.23	143.33	27.42	115.91
W-91	10/03/22	15-25	139.57	142.81	28.03	114.78
W-91	04/03/23	15-25	139.57	142.81	27.38	115.43
W-92	10/03/22	29-34	120.11	123.33	16.51	106.82
W-92	04/03/23	29-34	120.11	123.33	13.93	109.4
W-93	10/03/22	30.5-35.5	136.87	136.49	10.41	126.08
W-93	04/03/23	30.5-35.5	136.87	136.49	9.43	127.06
W-94	10/03/22	24.5-29.5	115.28	118.04	10.77	107.27
W-94	04/03/23	24.5-29.5	115.28	118.04	8.03	110.01
W-95	10/03/22	28.5-33.5	113.53	116.40	9.40	107.00
W-95	04/03/23	28.5-33.5	113.53	116.40	6.64	109.76
W-96	10/03/22	25-30	113.65	116.46	9.95	106.51
W-96	04/03/23	25-30	113.65	116.46	7.09	109.37
W-97	10/03/22	14-19	113.92	116.93	6.22	110.71
W-97	04/03/23	14-19	113.92	116.93	3.85	113.08

Table 2 - Groundwater Levels and Elevations  
 Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well	Date	Screen Interval (ft bgs)	Ground Elevation (ft)	Top of Casing Elevation (ft)	Depth to Water (ft btoc)	Water Elevation (ft)
W-98	10/03/22	17-27	135.52	138.65	24.67	113.98
W-98	04/03/23	17-27	135.52	138.65	23.58	115.07
W-99	10/03/22	16-21	129.78	133.84	12.26	121.58
W-99	04/03/23	16-21	129.78	133.84	11.89	121.95
W-100	10/03/22	7-12	129.47	133.47	10.64	122.83
W-100	04/03/23	7-12	129.47	133.47	10.40	123.07
W-102	10/03/22	28.5-33.5	137.08	136.86	10.92	125.94
W-102	04/03/23	28.5-33.5	137.08	136.86	10.37	126.49
W-103	10/03/22	34.5-39.5	132.56	134.87	19.21	115.66
W-103	04/03/23	34.5-39.5	132.56	134.87	16.87	118
W-104	10/03/22	7.5-17.5	115.45	118.48	7.95	110.53
W-104	04/03/23	7.5-17.5	115.45	118.48	5.40	113.08
W-105	10/03/22	14-24	114.80	117.57	11.42	106.15
W-105	04/03/23	14-24	114.80	117.57	7.96	109.61
W-106	10/03/22	24.5-29.5	115.68	118.69	11.76	106.93
W-106	04/03/23	24.5-29.5	115.68	118.69	9.29	109.4
W-107	10/03/22	29-34	112.27	115.23	8.43	106.80
W-107	04/03/23	29-34	112.27	115.23	5.72	109.51
W-108	10/03/22	27-32	111.93	115.41	8.78	106.63
W-108	04/03/23	27-32	111.93	115.41	6.08	109.33
W-109	10/03/22	27-32	112.81	115.68	8.96	106.72
W-109	04/03/23	27-32	112.81	115.68	6.22	109.46
W-110	10/03/22	29-34	113.21	116.42	9.48	106.94
W-110	04/03/23	29-34	113.21	116.42	6.71	109.71
W-111	10/03/22	76-81	113.68	116.92	7.18	109.74
W-111	04/03/23	76-81	113.68	116.92	4.04	112.88
W-112	10/03/22	29-34	112.93	116.07	8.97	107.10
W-112	04/03/23	29-34	112.93	116.07	6.25	109.82
W-113	10/03/22	31-36	135.66	138.55	12.59	125.96
W-113	04/03/23	31-36	135.66	138.55	7.55	131
W-114	10/03/22	10-20	135.54	138.75	12.10	126.65
W-114	04/03/23	10-20	135.54	138.75	6.84	131.91
W-115	10/03/22	40.5-45.5	139.06	141.71	20.29	121.42
W-115	04/03/23	40.5-45.5	139.06	141.71	18.19	123.52
W-116	10/03/22	10-20	138.99	141.91	19.89	122.02
W-116	04/03/23	10-20	138.99	141.91	18.71	123.2
W-117	10/03/22	39-44	140.82	143.76	23.92	119.84
W-117	04/03/23	39-44	140.82	143.76	22.64	121.12
W-118	10/03/22	19.5-29.5	140.78	143.74	22.22	121.52
W-118	04/03/23	19.5-29.5	140.78	143.74	21.43	122.31
W-119	10/03/22	25-30	139.48	142.24	17.15	125.09
W-119	04/03/23	25-30	139.48	142.24	16.13	126.11
W-120	10/03/22	29-34	139.26	142.34	14.96	127.38
W-120	04/03/23	29-34	139.26	142.34	13.78	128.56
W-121	10/03/22	12-22	139.12	142.24	15.01	127.23

Table 2 - Groundwater Levels and Elevations  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well	Date	Screen Interval (ft bgs)	Ground Elevation (ft)	Top of Casing Elevation (ft)	Depth to Water (ft btoc)	Water Elevation (ft)
W-121	04/03/23	12-22	139.12	142.24	13.83	128.41
W-122	10/03/22	25-30	134.29	136.84	9.34	127.50
W-122	04/03/23	25-30	134.29	136.84	8.02	128.82
W-123	10/03/22	29-34	136.30	136.05	12.64	123.41
W-123	04/03/23	29-34	136.30	136.05	13.15	122.9
W-124	10/03/22	26-31	115.26	117.73	11.31	106.42
W-124	04/03/23	26-31	115.26	117.73	8.17	109.56
W-125	10/03/22	40-45	114.65	117.84	11.28	106.56
W-125	04/03/23	40-45	114.65	117.84	8.62	109.22
W-126	10/03/22	37.5-42.5	113.53	115.89	9.45	106.44
W-126	04/03/23	37.5-42.5	113.53	115.89	6.57	109.32
PZ-1	10/03/22	7-17	113.54	116.27	9.81	106.46
PZ-1	04/03/23	7-17	113.54	116.27	6.10	110.17
CANAL SG	10/03/22	NA	NS	106.01	1.92	107.93
CANAL SG	04/03/23	NA	NS	106.01	1.20	107.21
CREEK SG	10/03/22	NA	NS	105.05	2.37	107.42
CREEK SG	04/03/23	NA	NS	105.05	1.51	106.56
ENTRANCE SG	10/03/22	NA	NS	108.57	2.00	110.57
ENTRANCE SG	04/03/23	NA	NS	108.57	1.60	110.17
GATOR SG	10/03/22	NA	NS	116.31	1.25	117.56
GATOR SG	04/03/23	NA	NS	116.31	1.57	117.88
LOWER SG	10/03/22	NA	NS	108.39	1.33	109.72
LOWER SG	04/03/23	NA	NS	108.39	1.10	109.49
UPPER 2 SG	10/03/22	NA	NS	108.56	1.61	110.17
UPPER 2 SG	04/03/23	NA	NS	108.56	1.36	109.92
UPPER SG	10/03/22	NA	NS	108.41	1.76	110.17
UPPER SG	04/03/23	NA	NS	108.41	1.28	109.69

Notes:

ft - feet

bgs - below ground surface

btoc - below top of casing

SG - staff gage

NA - not applicable

NS - not surveyed

Table 3 - Summary of Groundwater Field Stability Parameters  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Parameter Units		Dissolved Oxygen mg/L	Oxidation Reduction Potential mv	pH SU	Specific Conductivity us/cm	Temperature degC	Turbidity NTU
Well	Sample Date						
W-RW1	10/12/22	4.05	209.5	5.36	82	23.74	1.47
W-RW1	04/13/23	4.58	83.7	5.59	76	19.76	0
W-RW2	10/17/22	1.30	194.2	5.15	159	20.42	1.00
W-RW2	04/14/23	1.99	125.4	5.17	152	18.79	0
W-3A	10/20/22	0.21	238.9	4.57	28	17.64	0.92
W-3A	04/20/23	8.57	-51.9	7.46	0	20.20	0
W-4R	10/20/22	0.21	182.0	5.72	173	18.51	1.68
W-4R	04/21/23	8.74	150.3	7.61	0	15.93	0
W-6	10/07/22	0.42	141.9	6.16	1927	23.32	4.92
W-6	04/11/23	0.19	-132.4	6.24	1534	21.42	59.69
W-7A	10/04/22	0.14	83.7	7.00	2993	23.20	4.71
W-7A	04/05/23	0.13	66.4	6.85	2477	19.60	0
W-10	10/06/22	0.28	158.8	5.82	518	22.91	1.27
W-10	04/05/23	0.16	14.7	6.09	395	19.47	0
W-11	10/04/22	0.26	109.7	5.47	387	22.56	1.68
W-11	04/05/23	0.23	131.4	4.82	362	22.46	0
W-13R	10/04/22	0.09	226.9	6.81	783	23.17	13.41
W-13R	04/06/23	0.28	-120.6	6.40	617	21.24	17.97
W-14	10/17/22	0.16	-12.6	6.74	584	21.93	2.46
W-14	04/10/23	0.20	-38.3	7.06	0	18.41	0
W-15	10/17/22	0.15	255.6	6.36	618	21.04	3.67
W-15	04/13/23	0.12	168.4	5.81	551	19.30	0
W-16	10/18/22	1.26	180.8	6.88	228	18.38	3.36
W-16	04/10/23	0.35	66.2	7.21	373	18.86	0
W-17	10/11/22	0.22	186.1	6.30	449	22.24	20.20
W-17	04/17/23	0.27	-27.9	6.71	559	18.95	0
W-18R	10/07/22	0.85	128.0	7.40	3161	25.26	1.73
W-18R	04/17/23	0.36	-35.4	7.16	3045	20.89	0
W-19B	10/18/22	4.13	331.8	5.42	85	18.17	1.24
W-19B	04/17/23	6.59	158.2	4.39	0	24.19	0
W-20	10/20/22	0.25	54.6	5.42	150	19.75	1.33
W-20	04/21/23	7.84	15.9	6.23	0	18.63	0
W-22	10/07/22	0.19	161.4	5.54	883	25.62	1.88
W-22	04/11/23	0.14	-129.9	5.37	293	19.85	4.89
W-23R	10/17/22	3.43	340.6	5.33	53	19.36	1.43
W-23R	04/10/23	4.38	171.0	5.76	0	14.51	16.48
W-24	10/21/22	0.52	120.5	5.26	57	20.16	2.27
W-24	04/18/23	0.49	33.6	5.09	51	19.06	12.23
W-25	10/21/22	0.25	-37.7	6.12	150	17.83	9.93
W-25	04/21/23	0.17	-167.1	6.23	104	18.39	16.73
W-26	10/18/22	0.24	209.5	5.65	166	18.19	3.26
W-26	04/17/23	0.39	71.1	5.48	188	18.43	0
W-27	10/19/22	0.17	-58.5	6.48	375	19.16	8.43
W-27	04/20/23	8.99	43.6	7.86	0	17.55	0
W-28	10/06/22	2.42	425.4	6.89	593	25.21	2.38
W-28	04/06/23	4.27	257.0	6.26	511	20.24	0
W-29	10/10/22	0.22	163.5	6.59	503	24.16	1.29
W-29	04/06/23	0.21	-119.7	6.32	384	20.28	0
W-30	10/10/22	0.38	156.4	6.19	1182	24.24	1.34
W-30	04/11/23	0.18	-136.7	6.22	1185	19.32	1.62
W-32	10/04/22	0.21	31.2	6.84	1630	21.85	1.08
W-32	04/05/23	0.16	84.0	6.70	1481	20.85	0
W-33	10/13/22	1.26	234.8	5.56	148	21.36	1.32
W-33	04/14/23	1.01	213.5	6.42	141	17.81	0
W-35	10/11/22	3.16	267.4	6.32	177	23.13	2.35
W-35	04/12/23	4.60	213.6	6.46	98	18.00	0
W-36	10/11/22	0.17	253.0	5.76	49	23.09	16.14
W-36	04/13/23	0.40	233.0	5.59	45	18.64	0
W-37	10/10/22	3.59	333.7	6.23	143	23.45	2.69
W-37	04/11/23	3.70	215.0	6.21	131	19.82	0
W-38	10/06/22	2.92	206.1	5.05	177	25.39	1.80

Table 3 - Summary of Groundwater Field Stability Parameters  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Parameter Units		Dissolved Oxygen mg/L	Oxidation Reduction Potential mv	pH SU	Specific Conductivity us/cm	Temperature degC	Turbidity NTU
Well	Sample Date						
W-38	04/06/23	2.92	237.1	4.81	156	23.37	0
W-39	10/14/22	3.00	225.9	5.41	730	23.13	1.32
W-39	04/10/23	1.12	-52.7	5.60	589	19.48	0
W-40	10/11/22	0.52	159.4	5.98	80	24.03	19.00
W-40	04/18/23	5.43	85.6	6.12	55	19.33	103.50
W-41R	10/17/22	3.44	204.9	5.44	438	20.10	1.01
W-41R	04/14/23	6.09	119.1	5.64	229	18.46	0
W-42	10/14/22	0.38	298.5	5.18	72	21.19	1.63
W-42	04/14/23	2.15	232.8	5.14	49	20.78	0
W-43	10/14/22	3.66	238.3	5.10	106	22.27	1.28
W-43	04/14/23	5.04	140.6	5.35	108	18.20	12.74
W-44	10/17/22	3.95	235.4	4.87	84	19.53	0.99
W-44	04/14/23	4.29	145.2	4.98	82	17.44	0
W-45	10/12/22	0.24	-37.5	6.61	145	23.37	2.33
W-45	04/12/23	0.17	122.3	6.58	87	19.39	5.03
W-46	10/14/22	0.19	271.6	5.94	212	20.24	3.89
W-46	04/14/23	2.20	324.8	5.06	195	18.25	0
W-47	10/17/22	0.27	259.4	6.38	730	19.01	4.54
W-47	04/13/23	0.32	196.1	5.33	690	19.42	0
W-48	10/18/22	2.02	241.4	5.23	109	18.24	1.29
W-48	04/17/23	0.39	68.0	5.48	134	18.70	0.16
W-49	10/19/22	0.38	212.6	4.83	34	15.88	3.49
W-49	04/14/23	0.25	63.2	5.83	32	20.06	9.72
W-50	10/11/22	0.34	119.7	4.34	30	24.30	48.34
W-50	04/18/23	0.22	34.9	5.02	27	21.36	36.51
W-51	10/12/22	0.08	-156.6	7.13	222	24.74	2.43
W-51	04/12/23	0.08	-147.2	6.44	195	20.30	3.48
W-52	10/12/22	0.34	35.6	6.47	158	25.44	2.09
W-52	04/11/23	1.45	16.7	6.52	187	20.78	0
W-53	10/10/22	0.30	29.6	6.40	158	24.68	2.80
W-53	04/11/23	0.10	91.2	5.33	122	20.15	0.14
W-54	10/10/22	2.16	169.0	6.18	147	24.36	1.94
W-54	04/11/23	1.33	139.6	6.66	122	20.81	0
W-55	10/07/22	3.52	272.8	6.17	145	25.64	2.81
W-55	04/04/23	3.37	-7.4	5.96	130	21.25	0
W-56	10/07/22	2.78	284.4	5.94	146	26.35	2.06
W-56	04/04/23	2.33	-14.3	5.92	132	20.74	0
W-57	10/07/22	0.86	278.6	5.83	145	25.63	1.91
W-57	04/11/23	1.08	171.9	6.25	127	19.46	0
W-58	10/07/22	0.09	232.7	6.41	293	25.86	1.92
W-58	04/06/23	0.10	193.5	5.90	257	22.39	0
W-59	10/07/22	0.28	224.5	6.35	437	23.15	1.62
W-59	04/04/23	0.26	-60.8	6.03	768	20.08	0
W-60	10/14/22	0.41	44.4	5.58	109	18.76	15.25
W-60	04/10/23	0.16	-137.2	5.67	100	17.68	25.46
W-61	10/14/22	3.07	219.2	5.03	100	19.49	5.99
W-61	04/10/23	4.62	-43.5	5.31	86	17.38	24.73
W-62	10/17/22	3.00	214.7	5.19	86	19.03	1.72
W-62	04/17/23	8.66	139.6	6.34	0	18.33	0
W-63	10/13/22	0.24	159.2	7.10	386	22.27	61.82
W-63	04/18/23	7.13	197.6	4.13	0	25.74	0
W-64	10/17/22	0.17	245.8	6.28	722	19.16	1.41
W-64	04/13/23	0.24	85.0	5.85	711	19.70	0
W-65	10/13/22	0.33	234.1	5.65	115	21.08	1.14
W-65	04/07/23	0.92	87.5	6.02	99	20.70	10.44
W-66	10/13/22	0.33	267.7	5.17	84	22.06	7.36
W-66	04/07/23	0.95	84.1	5.00	79	20.45	1.92
W-67	10/17/22	0.21	293.5	6.02	208	19.60	1.47
W-67	04/10/23	0.47	163.3	6.27	0	16.30	0
W-68	10/17/22	4.85	202.8	5.13	90	19.41	0.93
W-68	04/17/23	6.51	155.7	6.34	0	17.25	0

Table 3 - Summary of Groundwater Field Stability Parameters  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Parameter Units		Dissolved Oxygen mg/L	Oxidation Reduction Potential mv	pH SU	Specific Conductivity us/cm	Temperature degC	Turbidity NTU
Well	Sample Date						
W-69	10/18/22	0.30	133.1	5.49	83	22.10	7.82
W-69	04/19/23	7.37	163.7	6.05	0	21.83	0
W-70	10/18/22	5.65	349.5	5.20	59	20.85	19.52
W-70	04/19/23	7.84	91.0	6.73	0	20.30	0
W-71	10/19/22	0.20	165.6	5.19	36	18.89	1.99
W-71	04/19/23	8.04	51.9	6.59	0	19.42	0
W-72	10/11/22	1.62	227.8	6.62	311	23.88	6.02
W-72	04/11/23	3.10	157.8	7.13	353	21.58	11.71
W-73	10/10/22	1.00	443.5	6.14	142	24.86	2.37
W-73	04/11/23	0.78	176.8	5.98	123	19.36	0
W-74	10/10/22	1.52	272.7	5.81	139	22.39	1.86
W-74	04/13/23	2.52	195.8	5.29	129	22.08	0
W-75	10/10/22	0.19	12.3	6.43	177	24.09	1.87
W-75	04/13/23	0.08	-36.7	6.25	126	20.52	0
W-76	10/06/22	3.61	220.2	4.62	184	27.48	2.07
W-76	04/06/23	4.78	15.5	4.99	145	22.30	1.93
W-77	10/06/22	0.54	-27.6	11.98	5488	26.27	6.48
W-77	04/04/23	3.89	-119.0	11.80	3087	20.54	0.53
W-78	10/06/22	3.16	252.2	6.52	260	25.45	2.44
W-78	04/06/23	5.27	194.2	5.98	232	20.91	0
W-79	10/05/22	4.04	161.9	5.92	197	27.47	1.97
W-79	04/06/23	6.25	-7.6	6.20	163	21.77	0.71
W-80	10/05/22	1.57	296.3	5.84	223	26.56	9.55
W-80	04/06/23	4.23	181.5	5.38	250	20.49	0
W-81	10/05/22	0.50	139.8	6.71	442	23.06	1.94
W-81	04/11/23	0.35	156.8	5.72	338	20.80	0
W-82	10/05/22	2.38	289.5	5.66	208	24.26	31.29
W-82	04/05/23	0.32	137.7	5.23	136	22.60	59.13
W-83	10/05/22	1.10	214.1	6.04	139	22.08	9.49
W-83	04/05/23	2.25	-58.2	5.62	124	24.66	52.97
W-84	10/04/22	0.26	118.0	6.06	168	26.40	16.03
W-84	04/05/23	2.36	-49.8	5.38	150	22.83	1.96
W-85	10/19/22	0.08	-77.4	6.84	258	19.17	6.55
W-85	04/19/23	7.42	68.9	7.49	0	24.13	0
W-86	10/19/22	0.30	140.0	5.71	275	18.78	13.60
W-86	04/19/23	7.12	82.5	7.49	0	25.85	0
W-87	10/11/22	0.17	189.5	6.51	106	22.20	24.02
W-87	04/12/23	0.66	-130.7	6.43	88	18.91	21.96
W-88	10/18/22	5.60	298.6	5.86	73	19.52	3.73
W-88	04/18/23	7.65	163.0	4.67	0	22.79	0
W-89	10/18/22	5.81	347.0	5.25	75	19.12	6.51
W-89	04/18/23	8.33	156.1	6.44	0	18.89	0
W-90	10/18/22	4.50	336.4	5.31	71	18.00	1.36
W-90	04/17/23	7.65	144.2	5.35	0	20.00	0
W-91	04/17/23	6.82	169.3	5.52	0	20.67	0
W-92	10/19/22	0.12	-12.3	6.25	279	18.29	10.72
W-92	04/20/23	9.20	-17.4	7.94	0	17.46	0
W-93	10/06/22	1.26	290.1	5.77	137	21.63	1.70
W-93	04/06/23	1.35	204.1	5.47	126	21.59	0
W-94	10/20/22	0.13	10.4	6.32	139	18.16	1.32
W-94	04/24/23	0.14	-54.7	6.11	127	18.35	17.85
W-95	10/20/22	0.14	-41.0	6.42	245	17.75	10.75
W-95	04/24/23	8.84	6.9	7.11	0	16.99	0
W-96	10/19/22	0.26	23.6	5.99	234	19.83	19.08
W-96	04/20/23	0.13	-52.0	6.01	223	18.44	21.89
W-97	10/20/22	0.17	183.0	5.63	187	18.37	9.90
W-97	04/21/23	0.17	-123.1	5.67	162	17.19	1.28
W-98	10/18/22	1.16	271.6	5.18	147	18.26	0.73
W-98	04/18/23	7.43	224.6	4.28	0	20.51	0
W-99	10/14/22	0.14	0.6	6.88	658	21.61	1.70
W-99	04/12/23	0.13	-65.6	6.59	427	21.08	9.56

Table 3 - Summary of Groundwater Field Stability Parameters  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Parameter Units		Dissolved Oxygen mg/L	Oxidation Reduction Potential mv	pH SU	Specific Conductivity us/cm	Temperature degC	Turbidity NTU
Well	Sample Date						
W-100	10/14/22	0.35	25.9	6.63	586	22.54	2.43
W-100	04/12/23	5.13	198.4	5.07	106	19.86	0
W-102	10/10/22	0.19	132.8	6.59	1128	22.84	1.92
W-102	04/11/23	0.22	-178.1	6.61	821	19.86	0
W-103	10/17/22	1.17	313.1	5.88	174	19.57	1.34
W-103	04/10/23	1.52	152.3	6.25	0	16.35	0
W-104	10/20/22	0.39	258.7	5.31	209	18.96	0.97
W-104	04/20/23	0.23	-17.6	5.10	221	20.83	4.45
W-105	10/20/22	0.21	-65.0	6.49	331	18.45	1.57
W-105	04/19/23	0.17	-102.7	6.14	364	19.05	2.94
W-106	10/14/22	0.19	-21.8	6.30	389	19.48	5.21
W-106	04/13/23	0.09	-37.8	6.02	351	18.31	12.78
W-107	10/21/22	0.15	7.1	6.10	168	17.00	12.24
W-107	04/24/23	0.23	-82.3	5.95	173	17.30	6.28
W-108	10/21/22	0.18	-36.1	6.65	187	18.68	2.08
W-108	04/21/23	8.10	57.8	7.43	1	17.95	0
W-109	10/20/22	0.28	5.7	5.77	113	18.86	15.28
W-109	04/21/23	8.16	-4.6	7.00	0	18.82	0
W-110	10/21/22	0.09	143.0	5.34	57	18.47	1.62
W-110	04/21/23	7.43	23.8	6.55	0	21.44	0
W-111	10/20/22	0.25	215.8	5.00	29	18.03	1.41
W-111	04/24/23	9.12	-61.8	7.67	0	16.67	0
W-112	10/21/22	0.13	-44.4	6.38	267	16.42	1.67
W-112	04/21/23	0.34	-106.5	6.45	232	19.02	17.70
W-113	10/13/22	0.41	245.3	6.50	138	19.97	16.09
W-113	04/07/23	0.91	120.8	5.72	75	18.70	0
W-114	10/13/22	1.93	279.1	5.74	77	21.20	24.22
W-114	04/07/23	2.15	189.4	5.61	93	18.60	45.38
W-115	10/12/22	3.63	248.7	5.96	106	18.94	7.51
W-115	04/07/23	2.34	227.8	5.11	74	19.79	0
W-116	10/12/22	5.57	301.3	5.57	122	20.12	1.52
W-116	04/07/23	6.87	199.1	4.92	92	18.58	0
W-117	10/13/22	3.53	287.1	6.12	95	19.15	3.41
W-117	04/07/23	4.29	192.0	4.67	71	20.24	0
W-118	10/13/22	1.25	311.4	5.72	96	19.11	1.43
W-118	04/07/23	1.28	34.2	4.72	84	19.28	1.41
W-119	10/13/22	0.14	290.2	5.62	86	19.33	1.57
W-119	04/14/23	0.15	230.1	6.09	76	18.12	0
W-120	10/13/22	0.31	192.6	5.65	150	21.25	1.10
W-120	04/07/23	0.56	12.1	6.08	197	20.84	0
W-121	10/13/22	0.31	325.1	4.95	83	22.32	1.24
W-121	04/07/23	1.55	159.4	4.76	70	20.51	0
W-122	10/11/22	0.18	71.2	6.13	49	22.22	5.82
W-122	04/13/23	0.51	91.2	6.66	39	19.16	0
W-123	10/04/22	0.20	196.7	8.39	1677	22.00	2.30
W-123	04/06/23	0.22	-141.4	8.06	1477	21.42	12.66
W-124	10/20/22	0.16	93.3	5.25	121	18.82	3.01
W-124	04/21/23	0.19	-120.9	5.78	124	18.60	9.82
W-125	10/20/22	0.13	-1.5	6.12	332	17.59	4.16
W-125	04/19/23	0.16	-178.3	6.13	344	19.51	35.37
W-126	10/19/22	0.22	-16.3	6.05	278	19.91	15.18
W-126	04/20/23	0.33	-132.5	6.31	254	19.38	19.66

Notes:

C - Celsius

SU - Standard Units

us/cm - microsiemens per centimeter

mg/L - milligrams per liter

mv - millivolts

NTU - nephelometric turbidity unit

Table 4 - Summary of Groundwater Analytical Results  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Group			VOCs					Inorganics			Radionuclides												
Analyte Units	MCL	MCL note	Tetrachloroethene ug/L	Trichloroethene ug/L	cis-1,2-Dichloroethene ug/L	trans-1,2-Dichloroethene ug/L	Vinyl Chloride ug/L	Fluoride mg/L	Nitrate mg/L	Gross Alpha pCi/L	Isotopic U233/234 pCi/L	Isotopic U235/236 pCi/L	Isotopic U238 (HASL300) pCi/L	Isotopic U238 (E901.1) pCi/L	Isotopic U234 ug/L	Isotopic U235 ug/L	Isotopic U238 ug/L	Total U ug/L	Gross Beta pCi/L	Tc-99 pCi/L	Tritium pCi/L		
							*												30	50	900		
Well	Date	Type																		*			
W-RW1	10/12/2022	N	1.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	2.72 #	NA			
W-RW1	04/13/2023	N	1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	2.7	NA	0.137 #	0.0698 #	0.0180 #	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0 ##	NA	
W-RW2	10/17/2022	N	146	5.4	2.2	< 1.0	< 1.0	0.14	13	NA	NA	NA	NA	0 ##	< 0.0500	< 0.0700	< 0.200	< 0.200	3.39 #	8.92	60.9 #		
W-RW2	10/17/2022	FD	144	5.3	2.3	< 1.0	< 1.0	0.16	13	NA	NA	NA	NA	236 #	< 0.0500	< 0.0700	< 0.200	< 0.200	5.50	9.47	171 #		
W-RW2	04/14/2023	N	120	8.5	0.64 J	< 1.0	< 1.0	0.17	8.1	0.747 #	0.153 #	0.145 #	0.101 #	145 #	< 0.0500	< 0.0700	< 0.200	< 0.200	1.52 #	3.43 #	0 ##		
W-3A	10/20/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	NA	NA	NA	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0 ##	NA			
W-3A	04/20/2023	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.020	NA	0.0963 #	0.0402 #	0.0548 #	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0.146 #	NA	
W-4R	10/20/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.11	0.037	NA	NA	NA	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0.693 #	NA		
W-4R	04/21/2023	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	0.23	NA	0.0529 #	0.0569 #	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	5.42	NA		
W-6	10/07/2022	N	20	3.0	2.9	< 1.0	< 1.0	< 1.0	0.11 H	7.4	NA	NA	NA	NA	< 0.0500	< 0.0700	0.175 J	0.175 J	NA	2380	NA		
W-6	01/05/2023	N	NA	NA	NA	NA	NA	NA	0.24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
W-6	01/05/2023	FD	NA	NA	NA	NA	NA	NA	0.24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
W-6	04/11/2023	N	12	2.1	1.8	< 1.0	< 1.0	0.13	180	NA	0 ##	0.0984 #	0.0461 #	NA	< 0.0500	< 0.0700	0.101 J	0.101 J	NA	1750	NA		
W-7A	10/04/2022	N	1.2	< 1.0	< 1.0	< 1.0	< 1.0	6.1 H	310	4.14	NA	NA	NA	NA	0 ##	< 0.0500	< 0.0700	0.477	0.477	85.8	134	189 #	
W-7A	01/03/2023	N	NA	NA	NA	NA	NA	NA	5.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
W-7A	04/05/2023	N	1.1	< 1.0	< 1.0	< 1.0	< 1.0	5.1	250	2.12 #	NA	NA	NA	NA	< 0.0500	< 0.0700	0.476	0.476	66.2	145	165 #		
W-10	10/06/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.1 H	24	0.281 #	NA	NA	43.8 #	< 0.0500	< 0.0700	0.0995 J	0.0995 J	64.9	91.6	15.1 #			
W-10	01/03/2023	N	NA	NA	NA	NA	NA	NA	3.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
W-10	04/05/2023	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.8	14	3.35 #	NA	NA	NA	NA	< 0.0500	< 0.0700	0.0766 J	0.0766 J	31.7	83.2	158 #		
W-11	10/04/2022	N	11	1.5	< 1.0	< 1.0	< 1.0	< 0.10	10 H	35	NA	NA	NA	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	1530	NA		
W-11	04/05/2023	N	11	1.9	1.3	< 1.0	< 1.0	< 0.10	35	NA	NA	NA	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	1750	NA			
W-13R	10/04/2022	N	30	2.7	< 1.0	< 1.0	< 1.0	9.8 H	19	1.93 #	NA	NA	0 ##	< 0.0500	< 0.0700	0.108 J	0.108 J	48.9	105	152 #			
W-13R	01/03/2023	N	NA	NA	NA	NA	NA	NA	8.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
W-13R	04/06/2023	N	28	2.6	0.68 J	< 1.0	< 1.0	7.3	17	4.16 #	0.275	0.153	0.139 #	441 #	< 0.0500	< 0.0700	0.154 J	0.154 J	NA	70.1	96.2 #		
W-14	10/17/2022	N	1.4	0.6 J	0.4 J	< 1.0	< 1.0	< 10 H	0.22	NA	NA	NA	NA	< 0.0500	< 0.0700	0.251	0.251	NA	2.02 #	NA			
W-14	01/05/2023	N	NA	NA	NA	NA	NA	NA	0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
W-14	04/10/2023	N	1.3	0.70 J	0.58 J	< 1.0	< 1.0	< 10	0.071	NA	0.320 #	0.0509 #	0.275	NA	< 0.0500	< 0.0700	0.342	0.342	NA	3.69 #	NA		
W-15	10/17/2022	N	8.3	1.4	1	< 1.0	< 1.0	1.9	45	NA	NA	12.8 #	< 0.0500	< 0.0700	< 0.200	< 0.200	125	231	0 ##				
W-15	04/13/2023	N	8.7	1.7	0.93 J	< 1.0	< 1.0	1.8	45	6.76	0 ##	0.0689 #	0 ##	0 ##	< 0.0500	< 0.0700	< 0.200	< 0.200	84.6	185	164 #		
W-16	10/18/2022	N	2.4	0.75 J	0.49 J	< 1.0	< 1.0	1.6	0.76	1.64 #	NA	NA	59.4 #	< 0.0500	< 0.0700	0.216	0.216	13.7	9.06	0 ##			
W-16	04/10/2023	N	2.4	0.77 J	< 1.0	< 1.0	< 1.0	6.5	2.5	0.278 #													

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Group			VOCs					Inorganics			Radionuclides										
Analyte Units	MCL	MCL note	Tetrachloroethene ug/L	Trichloroethene ug/L	cis-1,2-Dichloroethene ug/L	trans-1,2-Dichloroethene ug/L	Vinyl Chloride ug/L	Fluoride mg/L	Nitrate mg/L	Gross Alpha pCi/L	Isotopic U233/234 pCi/L	Isotopic U235/236 pCi/L	Isotopic U238 (HASL300) pCi/L	Isotopic U238 (E901.1) pCi/L	Isotopic U234 ug/L	Isotopic U235 ug/L	Isotopic U238 ug/L	Total U ug/L	Gross Beta pCi/L	Tc-99 pCi/L	Tritium pCi/L
			5	5	70	100	2	4	10	15	*							30	50	900	
Well	Date	Type																	*		
W-36	10/11/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10 H	0.88	NA	NA	NA	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0 ##	NA	
W-36	04/13/2023	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	0.44	NA	0.166 #	0.0233 #	0 ##	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0.0795 #	NA
W-37	10/10/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10 H	1.8	NA	NA	NA	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0 ##	NA	
W-37	04/11/2023	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	1.4	NA	0.0874 #	0.0970 #	0 ##	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0.530 #	NA
W-38	10/06/2022	N	< 1.0	8.2	< 1.0	< 1.0	< 1.0	0.80 H	3.3	NA	NA	NA	NA	< 0.0500	< 0.0700	0.101 J	0.101 J	NA	2.60 #	NA	
W-38	04/06/2023	N	0.70 J	15	< 1.0	< 1.0	< 1.0	0.31	3.4	NA	0.339 #	0.143 #	0.200 #	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0 ##	NA
W-39	10/14/2022	N	200 H	5.2	17			< 0.10 H	74	NA	NA	NA	NA	306 #	< 0.0500	< 0.0700	< 0.200	< 0.200	18.5	11.3	0 ##
W-39	01/06/2023	N	230	4.2	11	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
W-39	04/10/2023	FD	230	4.2	11	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
W-39	04/10/2023	N	220	4.0	8.5	< 1.0	< 1.0	< 0.10	61	2.23 #	0.228 #	0.0517 #	0.146 #	182 #	< 0.0500	< 0.0700	< 0.200	< 0.200	7.90	6.80	249 #
W-40	10/11/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.19 H	3.4	NA	NA	NA	NA	< 0.0500	< 0.0700	0.0778 J	0.0778 J	NA	0 ##	NA	
W-40	04/18/2023	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.15	0.63	NA	0.244 #	0.00970 #	0.140	NA	< 0.0500	< 0.0700	0.155 J	0.155 J	NA	0 ##	NA
W-41R	10/17/2022	N	203	13	5.8	< 2.0	< 2.0	< 0.10	46	NA	NA	NA	NA	0 ##	< 0.0500	< 0.0700	< 0.200	< 0.200	11.5	11.9	0 ##
W-41R	04/14/2023	N	120	4.7	2.0	< 1.0	< 1.0	< 0.10	17	3.34 #	0.210 #	0.0135 #	0.0975 #	0 ##	< 0.0500	< 0.0700	< 0.200	< 0.200	1.82 #	4.78	78.3 #
W-42	10/14/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.1 H	4.5	NA	NA	NA	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	6.66	NA	
W-42	04/14/2023	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.63	2.5	NA	0.210 #	0.0607 #	0.0982 #	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	3.61	NA
W-43	10/14/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10 H	7.6	NA	NA	NA	NA	0 ##	< 0.0500	< 0.0700	< 0.200	< 0.200	4.77	3.69	21.1 #
W-43	04/14/2023	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	8.4	0.0324 #	0.187 #	0.0818 #	0 ##	7.20 #	< 0.0500	< 0.0700	< 0.200	< 0.200	1.16 #	2.86 #	153 #
W-44	10/17/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10 H	2.4	NA	NA	NA	NA	46.7 #	< 0.0500	< 0.0700	< 0.200	< 0.200	1.73 #	3.04 #	0 ##
W-44	04/14/2023	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	2.6	0 ##	0.233 #	0 ##	0.299 #	12.3 #	< 0.0500	< 0.0700	< 0.200	< 0.200	1.40 #	0.933 #	11.6 #
W-45	10/12/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.44 H	< 0.020	NA	NA	NA	NA	< 0.0500	0.0115 J	0.436	0.447	NA	1.90 #	NA	
W-45	04/12/2023	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.53	0.85	NA	1.88	0.131 #	0.531	NA	< 0.0500	0.0307 J	1.33	1.36	NA	1.41 #	NA
W-45	04/12/2023	FD	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.53	0.31	NA	2.11	0.0483 #	0.764	NA	< 0.0500	0.0325 J	1.36	1.40	NA	1.02 #	NA
W-46	10/14/2022	N	2.8	0.57 J	< 1.0	< 1.0	< 1.0	< 0.10 H	8.8	NA	NA	NA	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	53.0	NA	
W-46	04/14/2023	N	2.6	0.60 J	< 1.0	< 1.0	< 1.0	< 0.10	8.2	NA	0 ##	0.0169 #	0.306	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	54.4	NA
W-47	10/17/2022	N	2.2	< 1.0	0.42 J	< 1.0	< 1.0	3.9	56	NA	NA	NA	NA	0 ##	< 0.0500	< 0.0700	< 0.200	< 0.200	72.2	114	238 #
W-47	04/13/2023	N	2.8	0.66 J	< 1.0	< 1.0	< 1.0	4.0	62	4.94	0 ##	0 #	0.0201 #	14.3 #	< 0.0500	< 0.0700	< 0.200	< 0.200	75.9	120	165 #
W-48	10/18/2022	N	160	2.9	1.3	< 1.0	< 1.0	0.36	5.8	1.28 #	NA	NA	NA	0 ##	< 0.0500	< 0.0700	< 0.200	< 0.200	5.92	17.9	0 ##
W-48	04/17/2023	N	150	5.7	2.0	< 1.0	< 1.0	0.41	4.7	0.422 #	0.174 #	0.0288 #	0.0182 #	0 ##	< 0.0500	< 0.0700	< 0.200	< 0.200	9.73	13.1	263 #
W-49	10/19/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	0.20	NA	NA	NA	NA	< 0.0500	&						

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Analyte Units	Tetrachloroethene ug/L	Trichloroethene ug/L	cis-1,2-Dichloroethene ug/L	trans-1,2-Dichloroethene ug/L	Vinyl Chloride ug/L	Fluoride mg/L	Nitrate mg/L	Gross Alpha pCi/L	Isotopic U233/234 pCi/L	Isotopic U235/236 pCi/L	Isotopic U238 (HASL300) pCi/L	Isotopic U238 (E901.1) pCi/L	Isotopic U234 ug/L	Isotopic U235 ug/L	Isotopic U238 ug/L	Total U ug/L	Gross Beta pCi/L	Tc-99 pCi/L	Tritium pCi/L		
	MCL	5	5	70	100	2	4	10	15	*							30	50	900		
Well	Date	Type																*			
W-69	04/19/2023	FD	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	0.44	NA	0 ##	0.100 #	0.0319 #	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0 ##	NA	
W-70	10/18/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10 H	1.5	NA	NA	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	3.53	NA		
W-70	04/19/2023	N	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	1.4	NA	0.251 #	0 ##	0 ##	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0 ##	NA	
W-71	10/19/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	0.049	NA	NA	NA	< 0.0500	< 0.0700	0.0959 J	0.0959 J	NA	0 ##	NA			
W-71	04/19/2023	N	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.020	NA	0 ##	0.0920 #	NA	< 0.0500	< 0.0700	0.211	0.211	NA	0 ##	NA		
W-72	10/11/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	0.80 H	4.1	NA	NA	< 0.0500	< 0.0700	0.276	0.276	NA	0.362 #	NA			
W-72	04/11/2023	N	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	0.78	3.7	NA	3.22	0.227	0.663	NA	< 0.0500	0.0469 J	1.51	1.55	NA	3.97	NA
W-73	10/10/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10 H	1.4	NA	NA	< 0.0500	< 0.0700	0.129 J	0.129 J	NA	0 ##	NA			
W-73	04/11/2023	N	0.74 J	< 1.0	< 1.0	< 1.0	< 0.10	< 0.10 H	1.3	NA	0.348	0.0237 #	0.167 #	NA	< 0.0500	< 0.0700	0.130 J	0.130 J	NA	2.01 #	NA
W-74	10/10/2022	N	8.8	2.6	< 1.0	< 1.0	< 1.0	< 0.10 H	6.0	NA	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0 ##	NA			
W-74	04/13/2023	N	7.8	2.4	0.74 J	< 1.0	< 1.0	< 0.10	6.0	NA	0.190 #	0.0644 #	0.156 #	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0.570 #	NA
W-75	10/10/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10 H	0.32	NA	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0.0630 #	NA			
W-75	04/13/2023	N	0.40 J	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	0.56	NA	0 ##	0.0359 #	0.154 #	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	1.29 #	NA
W-76	10/06/2022	N	< 1.0	2.6	< 1.0	< 1.0	< 1.0	2.4 H	13	NA	NA	< 0.0500	0.130	3.84	NA	NA	NA	NA	NA	0.524 #	NA
W-76	01/03/2023	N	NA	NA	NA	NA	NA	2.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
W-76	04/06/2023	N	0.94 J	3.2	< 1.0	< 1.0	< 1.0	2.0	11	NA	5.95	0.399	0.911	NA	< 0.0500	0.102	2.99	3.09	NA	0 ##	NA
W-77	10/06/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	13 H	9.1	NA	NA	NA	0.0390 J	4.63	108	113	NA	25.3	NA		
W-77	10/06/2022	FD	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.9 H	8.6	NA	NA	NA	0.0390 J	4.49	105	110	NA	7.54 #	NA		
W-77	01/03/2023	N	NA	NA	NA	NA	NA	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
W-77	04/04/2023	N	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	7.86	4.77	NA	NA	NA	0.0180 J	1.52	38.0	39.5	NA	0 ##	NA		
W-78	10/06/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	17 H	4.7	NA	NA	NA	< 0.0500	< 0.0700	0.278	0.278	NA	0 ##	NA		
W-78	01/05/2023	N	NA	NA	NA	NA	NA	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
W-78	04/06/2023	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16	3.7	NA	0.185 #	0.162 #	0.188 #	NA	< 0.0500	< 0.0700	0.0807 J	0.0807 J	NA	0 ##	NA
W-79	10/05/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.79 H	4.7	NA	NA	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0 ##	NA		
W-79	01/03/2023	N	NA	NA	NA	NA	NA	0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
W-79	04/06/2023	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.62	3.9	NA	0.0802 #	0.152 #	0.0740 #	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0 ##	NA
W-80	10/05/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.19 H	6.3	NA	NA	NA	< 0.0500	< 0.0700	0.222	0.222	NA	0 ##	NA		
W-80	01/03/2023	N	NA	NA	NA	NA	NA	0.49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
W-80	04/06/2023	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.11	15	NA	0.314	0.104 #	0.212	NA	< 0.0500	< 0.0700	0.287	0.287	NA	0.145 #	NA
W-81	10/05/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10 H	5.7	NA	NA	NA	< 0.0500	< 0.0700	0.504	0.504	NA	0.951 #	NA		
W-81	04/11/2023	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	3.8	NA	0.126 #	0.0391 #	0.0404 #	NA	< 0.0500	< 0.0700	0.240	0.240	NA	0.475 #	NA
W-82	10/05/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10 H	1.4												

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	MCL	5	5	70	100	2	4	10	15	*							30	50	900			
	MCL note																*					
Well	Date	Type																				
W-103	04/10/2023	N	27	5.4	0.79 J	< 1.0	< 1.0	< 0.10	8.4	NA	0.230 #	0.228 #	0.0369 #	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	30.6	NA	
W-104	10/20/2022	N	2.6	2.2	< 1.0	< 1.0	< 1.0	< 0.10	7.3	NA	NA	NA	NA	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	3.24 #	NA	
W-104	10/20/2022	FD	2.5	2.1	< 1.0	< 1.0	< 1.0	< 0.10	5.2	NA	NA	NA	NA	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	3.63 #	NA	
W-104	04/20/2023	N	2.7	1.4	< 1.0	< 1.0	< 1.0	< 0.10	4.7	NA	0.0379 #	0.127 #	0.153 #	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	4.28	NA	
W-105	10/20/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	0.32	0.068	NA	NA	NA	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0 ##	NA	
W-105	04/19/2023	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	0.32	0.059	NA	0.143 #	0.218 #	0.209 #	NA	< 0.0500	< 0.0700	0.0809 J	0.0809 J	NA	0 ##	NA
W-106	10/14/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.13 H	0.10	NA	NA	NA	NA	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	2.69 #	NA	
W-106	04/13/2023	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.14	0.17	NA	0.125 #	0 ##	0.0938	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	2.34 #	NA	
W-107	10/21/2022	N	< 1.0	< 1.0	0.46 J	< 1.0	3.2	< 0.10	0.052	NA	NA	NA	NA	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0 ##	NA	
W-107	10/21/2022	FD	< 1.0	< 1.0	0.43 J	< 1.0	3	< 0.10	0.098	NA	NA	NA	NA	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0.740 #	NA	
W-107	04/24/2023	N	< 1.0	< 1.0	< 1.0	< 1.0	3.4	< 0.10	< 0.020	NA	0 ##	0 ##	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0 ##	NA		
W-108	10/21/2022	N	< 1.0	< 1.0	1.3	< 1.0	0.8 J	< 0.10	0.32	NA	NA	NA	NA	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0 ##	NA	
W-108	04/21/2023	N	< 1.0	< 1.0	1.1	< 1.0	1.2	< 0.10	< 0.020	NA	0.0550 #	0.0202 #	0 ##	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	1.75 #	NA	
W-109	10/20/2022	N	< 1.0	< 1.0	2.5	< 1.0	< 1.0	< 0.10	< 0.020	NA	NA	NA	NA	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0.825 #	NA	
W-109	04/21/2023	N	< 1.0	< 1.0	2.4	< 1.0	0.43 J	< 0.10	< 0.020	NA	0.0246 #	0.0360 #	0.0107 #	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0 ##	NA	
W-110	10/21/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.020	NA	NA	NA	NA	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0 ##	NA	
W-110	04/21/2023	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.020	NA	0.0683 #	0.0292 #	0.0473 #	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0.468 #	NA	
W-111	10/20/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.020	NA	NA	NA	NA	NA	< 0.0500	< 0.0700	0.0979 J	0.0979 J	NA	1.02 #	NA	
W-111	04/24/2023	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.020	NA	0.0148 #	0 ##	0.0864 #	NA	< 0.0500	< 0.0700	0.179 J	0.179 J	NA	1.16 #	NA	
W-112	10/21/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	< 0.020	NA	0 ##	0.0330 #	0.0885 #	NA	< 0.0500	< 0.0700	0.231	0.231	NA	0.667 #	NA	
W-113	10/13/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10 H	3.1	NA	NA	NA	NA	NA	< 0.0500	< 0.0700	0.142 J	0.142 J	NA	0 ##	NA	
W-113	04/07/2023	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	2.5	NA	0.139 #	0.102 #	0.0413 #	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0 ##	NA	
W-114	10/13/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10 H	1.0	NA	NA	NA	NA	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0 ##	NA	
W-114	04/07/2023	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	1.3	NA	0.0501 #	0.0620 #	0.0167 #	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0.463 #	NA	
W-115	10/12/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10 H	14	NA	NA	NA	NA	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	1.26 #	NA	
W-115	04/07/2023	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	3.2	NA	0 ##	0.112 #	0.0607 #	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0.252 #	NA	
W-116	10/12/2022	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10 H	5.9	NA	NA	NA	NA	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	2.78 #	NA	
W-116	04/07/2023	N	0.47 J	< 1.0	< 1.0	< 1.0	< 1.0	< 0.10	4.4	NA	0.205 #	0.168 #	0.214 #	NA	< 0.0500	< 0.0700	< 0.200	< 0.200	NA	0.155 #	NA	
W-117																						

## **Appendix A Groundwater Sample Collections Records**

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-RW1</b>		SAMPLE ID: W-RW1-2022-Q4	DATE: 10/12/2022 12:32:00 PM	
TOTAL WELL DEPTH (feet) (A): 33.00		WATER TABLE DEPTH (feet) (B): 9.90	LENGTH OF WATER COLUMN (feet) (A-B): 23.10	
CASING DIAMETER / MATL: 4 in, STEEL		WELL SCREEN INTERVAL DEPTH: 22.00 - 32.00 ft	CALCULATED SYSTEM VOLUME (gallons): 15.08	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/12/2022 12:08:00 PM	PURGING END TIME: 10/12/2022 12:30:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC. COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:10 PM	0	0	9.9	190.8	5.63	26.96	81	5.18	3.69	Clear	None
12:15 PM	0.75	0.15	9.9	208.9	5.15	23.7	82	4.12	1.64	Clear	None
12:20 PM	1.5	0.15	9.9	213.1	5.18	23.51	82	4.08	1.5	Clear	None
12:25 PM	2.25	0.15	9.9	213	5.25	23.61	82	4.06	1.67	Clear	None
12:30 PM	3	0.15	9.9	209.5	5.36	23.74	82	4.05	1.47	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-RW1</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-RW2</b>	SAMPLE ID: W-RW2-2022-Q4	DATE: 10/17/2022 9:24:00 AM		
TOTAL WELL DEPTH (feet) (A): 31.35	WATER TABLE DEPTH (feet) (B): 18.58	LENGTH OF WATER COLUMN (feet) (A-B): 12.77		
CASING DIAMETER / MATL: 4 in, STEEL	WELL SCREEN INTERVAL DEPTH: 18.50 - 28.50 ft	CALCULATED SYSTEM VOLUME (gallons): 8.34		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/17/2022 8:55:00 AM	PURGING END TIME: 10/17/2022 9:22:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. ( $\mu$ s/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:57 AM	0	0	18.78	144.8	6.37	19.94	0	3.89	3.58	Clear	None
9:02 AM	0.7	0.14	18.82	172.7	5.15	20.31	166	1.71	0.99	Clear	None
9:07 AM	1.4	0.14	18.83	183	5.14	20.35	164	1.52	0.96	Clear	None
9:12 AM	2.1	0.14	18.83	189.5	5.12	20.39	160	1.37	0.97	Clear	None
9:17 AM	2.8	0.14	18.83	194	5.09	20.42	160	1.37	0.95	Clear	None
9:22 AM	3.5	0.14	18.83	194.2	5.15	20.42	159	1.3	1	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-RW2</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE: W-RW2-2022-Q4-Dup	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: <b>pH:</b> + 1.0 units <b>Temperature:</b> + 3% <b>Specific Conductance:</b> + 3% <b>Dissolved Oxygen:</b> optionally, + 0.2 mg/L or + 10% (whichever is greater) <b>ORP:</b> + 10 mV <b>Turbidity:</b> all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Beta,Tc-99,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL
2	250 ml	Amber Glass	None	SVOCs	Pace

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-3A</b>	SAMPLE ID: W-3A-2022-Q4	DATE: 10/20/2022 9:17:00 AM		
TOTAL WELL DEPTH (feet) (A): 85.15	WATER TABLE DEPTH (feet) (B): 8.46	LENGTH OF WATER COLUMN (feet) (A-B): 76.69		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 73.00 - 83.00 ft	CALCULATED SYSTEM VOLUME (gallons): 12.56		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/20/2022 8:55:00 AM	PURGING END TIME: 10/20/2022 9:17:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:57 AM	0.2	0.1	8.54	207.6	4.96	15.57	29	6.8	0.93	Clear	None
9:02 AM	0.7	0.1	8.55	226.5	4.67	17.16	28	0.38	0.91	Clear	None
9:07 AM	1.2	0.1	8.55	230.6	4.62	17.55	28	0.3	0.87	Clear	None
9:12 AM	1.7	0.1	8.55	237	4.59	17.61	28	0.24	0.91	Clear	None
9:17 AM	2.2	0.1	8.56	238.9	4.57	17.64	28	0.21	0.92	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-3A</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-4R</b>		SAMPLE ID: W-4R-2022-Q4	DATE: 10/20/2022 8:35:00 AM	
TOTAL WELL DEPTH (feet) (A): 17.35		WATER TABLE DEPTH (feet) (B): 12.91	LENGTH OF WATER COLUMN (feet) (A-B): 4.44	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 4.50 - 14.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.72	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/20/2022 7:53:00 AM	PURGING END TIME: 10/20/2022 8:35:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
7:54 AM	0.1	0.1	13.03	122.2	6.49	15.24	199	7.73	3.95	Clear	None
7:59 AM	0.6	0.1	13.24	112.4	6.2	17.24	180	0.89	2.36	Clear	None
8:04 AM	1.1	0.1	13.27	126.3	6.09	16.85	181	0.78	1.79	Clear	None
8:10 AM	1.7	0.1	13.29	142.3	5.98	17.08	180	0.36	6.47	Clear	None
8:15 AM	2.2	0.1	13.31	155.9	5.88	17.38	177	0.33	3.3	Clear	None
8:20 AM	2.7	0.1	13.32	168.9	5.81	17.82	174	0.31	1.66	Clear	None
8:25 AM	3.2	0.1	13.32	175.4	5.77	18.21	173	0.3	1.76	Clear	None
8:30 AM	3.7	0.1	13.34	182.8	5.74	18.28	172	0.29	1.61	Clear	None
8:35 AM	4.2	0.1	13.35	182	5.72	18.51	173	0.21	1.68	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-4R</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-6</b>	SAMPLE ID: W-6-2022-Q4	DATE: 10/7/2022 9:23:00 AM		
TOTAL WELL DEPTH (feet) (A): 27.37	WATER TABLE DEPTH (feet) (B): 11.00	LENGTH OF WATER COLUMN (feet) (A-B): 16.37		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 23.00 - 28.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.67		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/7/2022 8:58:00 AM	PURGING END TIME: 10/7/2022 9:21:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC. COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:01 AM	0	0	11.29	171.4	6.12	23.86	2026	3.97	2.14	Clear	None
9:06 AM	0.5	0.1	11.63	158.6	6.09	23.11	1840	0.66	2.76	Clear	None
9:11 AM	1	0.1	11.81	149.9	6.13	23.38	1885	0.43	4.64	Clear	None
9:16 AM	1.5	0.1	11.91	144.8	6.14	23.39	1899	0.34	16.62	Clear	None
9:21 AM	2	0.1	11.99	141.9	6.16	23.32	1927	0.42	4.92	Clear	None
8:39 AM	0	0	11.3	92	5.92	16.36	671	6.62	6.2	Clear	None
8:44 AM	0.7	0.14	11.74	104	5.83	20.17	746	2.36	0.78	Clear	None
8:49 AM	1.2	0.1	11.9	104.8	5.85	20	957	1.62	0.93	Clear	None
8:54 AM	1.7	0.1	11.99	98.3	5.98	20.01	1715	0.8	0.98	Clear	None
8:59 AM	2.2	0.1	12.01	87.7	6.02	20.18	1903	0.68	1.76	Clear	None
9:04 AM	2.7	0.1	12.05	81.6	6.03	20.49	1988	0.71	5.18	Clear	None
9:09 AM	3.2	0.1	12.08	76.3	6.08	20.57	2088	0.42	8.74	Clear	None
9:14 AM	3.7	0.1	12.08	69.6	6.18	20.48	2238	0.34	15.81	Clear	None
9:19 AM	4.2	0.1	12.08	63.7	6.28	20.37	2358	0.4	9	Clear	None
9:24 AM	4.7	0.1	12.08	61.2	6.31	20.68	2408	0.28	12.39	Clear	None
9:29 AM	5.2	0.1	12.08	58.9	6.31	20.71	2411	0.36	12.95	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-6</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-7A</b>	SAMPLE ID: W-7A-2022-Q4	DATE: 10/4/2022 12:49:00 PM		
TOTAL WELL DEPTH (feet) (A): 20.10	WATER TABLE DEPTH (feet) (B): 11.78	LENGTH OF WATER COLUMN (feet) (A-B): 8.32		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 13.00 - 18.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.36		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME:	PURGING END TIME:	PUMP TYPE:

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:22 PM	3.5	0.5	12.07	92	6.9	26.38	2990	0.49	1.79	Clear	None
12:27 PM	6	0.5	12.3	90.2	6.97	23.31	2988	0.25	1.51	Clear	None
12:32 PM	8.5	0.5	12.3	88.7	6.98	23.32	2991	0.26	1.62	Clear	None
12:37 PM	12	0.7	12.3	86.7	6.99	23.26	2996	0.22	1.84	Clear	None
12:42 PM	15.5	0.7	12.3	85.2	7	23.27	2996	0.18	3.05	Clear	None
12:47 PM	19	0.7	12.3	83.7	7	23.2	2993	0.14	4.71	Clear	None
11:15 AM	0	0	12.63	59.8	6.84	20.68	2860	0.72	1.5	Clear	None
11:20 AM	0.8	0.16	12.68	55.5	6.91	20.36	2880	0.38	1.45	Clear	None
11:25 AM	1.5	0.14	12.71	52.4	6.92	20.35	2883	0.28	1.37	Clear	None
11:30 AM	2.2	0.14	12.73	49.3	6.91	20.46	2887	0.22	1.35	Clear	None
11:35 AM	2.9	0.14	12.75	46	6.92	20.48	2886	0.18	1.57	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-7A</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS,Gross Alpha,Gross Beta,Gross Alpha,Gross Beta,Gross Alpha,Gross Beta,Gamma Spec	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-10</b>		SAMPLE ID: W-10-2022-Q4	DATE: 10/6/2022 11:12:00 AM	
TOTAL WELL DEPTH (feet) (A): 22.25		WATER TABLE DEPTH (feet) (B): 15.92	LENGTH OF WATER COLUMN (feet) (A-B): 6.33	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 17.50 - 22.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.03	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/6/2022 10:37:00 AM	PURGING END TIME: 10/6/2022 11:09:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:39 AM	0	0	16.25	174.6	6.01	22.96	348	2.44	1.3	Clear	None
10:44 AM	0.7	0.14	16.7	167.9	5.79	22.79	473	0.48	1.2	Clear	None
10:49 AM	1.4	0.14	16.8	164.5	5.83	22.75	478	0.34	1.14	Clear	None
10:54 AM	2.1	0.14	16.85	160.1	5.87	22.7	507	0.37	1.25	Clear	None
10:59 AM	2.8	0.14	16.88	157.7	5.86	22.78	513	0.28	1.28	Clear	None
11:04 AM	3.5	0.14	16.9	159.6	5.81	22.85	516	0.34	1.25	Clear	None
11:09 AM	4.2	0.14	16.92	158.8	5.82	22.91	518	0.28	1.27	Clear	None
10:24 AM	0	0	17.03	83.9	5.6	20.95	433	0.64	1.87	Clear	None
10:29 AM	0.8	0.16	17.13	106.1	5.52	20.58	430	0.52	1.6	Clear	None
10:34 AM	1.5	0.14	17.08	108.7	5.61	20.57	433	0.38	1.11	Clear	None
10:39 AM	2.2	0.14	17.08	108.7	5.66	20.74	479	0.83	1.23	Clear	None
10:44 AM	2.9	0.14	17.08	107.9	5.66	20.77	487	0.21	1.14	Clear	None
10:49 AM	3.6	0.14	17.08	106.5	5.65	20.89	493	0.21	1.2	Clear	None
10:54 AM	4.3	0.14	17.08	105.1	5.65	20.96	493	0.23	1.23	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-10</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): 999			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS,Gross Alpha,Gross Beta,Gamma Spec	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-11</b>	SAMPLE ID: W-11-2022-Q4	DATE: 10/4/2022 11:32:00 AM		
TOTAL WELL DEPTH (feet) (A): 27.30	WATER TABLE DEPTH (feet) (B): 18.82	LENGTH OF WATER COLUMN (feet) (A-B): 8.48		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 22.00 - 25.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.38		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/4/2022 10:35:00 AM	PURGING END TIME: 10/4/2022 11:28:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC. COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:38 AM	1.5	0.5	19.18	63.9	5.92	26.03	458	1.04	15.2	Clear	None
10:43 AM	4	0.5	20.2	101.6	5.28	21.84	303	0.37	2.29	Clear	None
10:48 AM	6	0.4	20.62	97.8	5.45	22.42	304	0.39	1.79	Clear	None
10:53 AM	8	0.4	21.17	99.5	5.48	22.39	314	0.34	1.65	Clear	None
10:58 AM	10	0.4	21.5	102.3	5.47	22.24	327	0.3	1.7	Clear	None
11:03 AM	12	0.4	21.9	104	5.48	22.57	339	0.3	2.04	Clear	None
11:08 AM	14	0.4	22.19	104.8	5.49	22.59	354	0.3	1.92	Clear	None
11:13 AM	16	0.4	22.5	108.9	5.44	22.65	362	0.28	1.86	Clear	None
11:18 AM	18	0.4	22.79	110.6	5.43	22.49	377	0.27	1.92	Clear	None
11:23 AM	20	0.4	23.05	109.7	5.46	22.61	381	0.25	1.76	Clear	None
11:28 AM	22	0.4	23.27	109.7	5.47	22.56	387	0.26	1.68	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-11	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-13R</b>		SAMPLE ID: W-13R-2022-Q4	DATE: 10/4/2022 10:15:00 AM	
TOTAL WELL DEPTH (feet) (A): 20.29		WATER TABLE DEPTH (feet) (B): 12.64	LENGTH OF WATER COLUMN (feet) (A-B): 7.65	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 15.00 - 20.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.25	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/4/2022 9:30:00 AM	PURGING END TIME: 10/4/2022 10:11:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC. COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:31 AM	0.2	0.2	12.74	206.5	7.02	21.33	580	6.54	217.35	Cloudy	None
9:36 AM	1.2	0.2	12.74	217.7	6.82	22.88	758	0.22	123.66	Cloudy	None
9:41 AM	2.2	0.2	12.75	219.5	6.84	23.14	779	0.23	64.42	Clear	None
9:46 AM	3.2	0.2	12.75	220.7	6.84	23.02	792	0.2	36.7	Clear	None
9:51 AM	4.2	0.2	12.75	222.2	6.83	23.11	778	0.13	23.99	Clear	None
9:56 AM	5.2	0.2	12.75	223.3	6.83	23.11	783	0.19	23.88	Clear	None
10:01 AM	6.2	0.2	12.75	224.8	6.82	23.27	781	0.12	16.64	Clear	None
10:06 AM	7.2	0.2	12.75	226.2	6.81	23.28	776	0.1	15.44	Clear	None
10:11 AM	8.2	0.2	12.75	226.9	6.81	23.17	783	0.09	13.41	Clear	None
9:26 AM	0	0	13.05	67.5	6.93	19.4	657	4.63	211.12	Cloudy	None
9:31 AM	0.5	0.1	13.07	98.9	6.46	20.84	679	0.27	99.54	Cloudy	None
9:36 AM	1.5	0.2	13.07	99.9	6.49	20.96	727	0.17	57.67	Clear	None
9:41 AM	3	0.3	13.07	105.8	6.46	21.01	730	0.16	32.64		
9:46 AM	5	0.4	13.07	105.1	6.42	21.12	729	0.16	18.59	Clear	None
9:51 AM	7.5	0.5	13.07	112.9	6.42	21.26	739	0.11	15.44	Clear	None
9:56 AM	10.5	0.6	13.07	114	6.41	21.09	738	0.12	16.25	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-13R	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS,Gross Alpha,Gross Beta,Gamma Spec	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-14</b>	SAMPLE ID: W-14-2022-Q4	DATE: 10/17/2022 2:24:00 PM		
TOTAL WELL DEPTH (feet) (A): 30.50	WATER TABLE DEPTH (feet) (B): 17.51	LENGTH OF WATER COLUMN (feet) (A-B): 12.99		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 24.00 - 29.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.12		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/17/2022 2:01:00 PM	PURGING END TIME: 10/17/2022 2:24:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
2:04 PM	0.3	0.1	17.57	14.8	6.65	23.02	608	4.62	22.91	Clear	None
2:09 PM	0.8	0.1	17.59	2.4	6.7	21.84	605	0.29	15.67	Clear	None
2:14 PM	1.3	0.1	17.59	-5.6	6.72	21.81	597	0.2	3.42	Clear	None
2:19 PM	1.8	0.1	17.59	-10.6	6.74	21.88	586	0.17	3.11	Clear	None
2:24 PM	2.3	0.1	17.59	-12.6	6.74	21.93	584	0.16	2.46	Clear	None
2:11 PM	0	0	17.03	22.1	6.71	25.44	37	2.23	44.31	Clear	None
2:16 PM	0.6	0.12	17.03	2.4	6.27	20.2	626	0.66	11.49	Clear	None
2:21 PM	1.2	0.12	17.03	-12	6.32	20.09	615	0.36	11.09	Clear	None
2:26 PM	1.8	0.12	17.03	-7.3	6.34	19.89	608	0.36	5.51	Clear	None
2:31 PM	2.4	0.12	17.03	-5.6	6.35	19.85	601	0.31	5.53	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-14</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-15</b>	SAMPLE ID: W-15-2022-Q4	DATE: 10/17/2022 10:11:00 AM		
TOTAL WELL DEPTH (feet) (A): 21.93	WATER TABLE DEPTH (feet) (B): 12.63	LENGTH OF WATER COLUMN (feet) (A-B): 9.30		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 15.50 - 20.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.52		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/17/2022 9:48:00 AM	PURGING END TIME: 10/17/2022 10:10:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:50 AM	0.24	0.12	12.8	247.8	6.44	21.1	612	2.96	2.61	Clear	None
9:55 AM	0.84	0.12	12.84	250.3	6.4	21.07	612	0.29	1.62	Clear	None
10:00 AM	1.44	0.12	12.87	252.2	6.36	21.05	609	0.2	1.73	Clear	None
10:05 AM	2.04	0.12	12.87	253.7	6.36	21.04	613	0.17	1.94	Clear	None
10:10 AM	2.64	0.12	12.87	255.6	6.36	21.04	618	0.15	3.67	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-15</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: <b>pH:</b> + 1.0 units <b>Temperature:</b> + 3% <b>Specific Conductance:</b> + 3% <b>Dissolved Oxygen:</b> optionally, + 0.2 mg/L or + 10% (whichever is greater) <b>ORP:</b> + 10 mV <b>Turbidity:</b> all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Beta,Tc-99,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-16</b>	SAMPLE ID: W-16-2022-Q4	DATE: 10/18/2022 8:13:00 AM		
TOTAL WELL DEPTH (feet) (A): 13.63	WATER TABLE DEPTH (feet) (B): 4.70	LENGTH OF WATER COLUMN (feet) (A-B): 8.93		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 11.00 - 14.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.46		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/18/2022 7:44:00 AM	PURGING END TIME: 10/18/2022 8:12:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
7:47 AM	0.3	0.1	5.12	153.3	7.24	18.9	255	4.96	7.62	Clear	None
7:52 AM	0.8	0.1	5.73	162.6	7.2	18.73	226	1.77	8.07	Clear	None
7:57 AM	1.3	0.1	6.09	173.5	7.12	18.55	220	1.84	3.07	Clear	None
8:02 AM	1.8	0.1	6.25	179.3	7.03	18.44	221	1.22	5.88	Clear	None
8:07 AM	2.3	0.1	6.4	182.9	6.96	18.3	222	1.27	8.26	Clear	None
8:12 AM	2.8	0.1	6.5	180.8	6.88	18.38	228	1.26	3.36	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-16</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Alpha,Gross Beta,Tc-99,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-17</b>		SAMPLE ID: W-17-2022-Q4	DATE: 10/11/2022 10:10:00 AM	
TOTAL WELL DEPTH (feet) (A): 29.63		WATER TABLE DEPTH (feet) (B): 14.45	LENGTH OF WATER COLUMN (feet) (A-B): 15.18	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 23.00 - 28.00 ft		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME:	PURGING END TIME:	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC. COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:13 AM	0	0	14.56	164.1	6.99	20.72	478	5.25	0.82	Clear	None
9:18 AM	0.75	0.15	14.6	159.6	6.67	21.79	628	0.44	1.25	Clear	None
9:23 AM	1.5	0.15	14.64	158.9	6.57	21.88	590	0.29	3.25	Clear	None
9:28 AM	2.25	0.15	14.65	154.2	6.54	21.94	546	0.28	5.49	Clear	None
9:33 AM	3	0.15	14.67	155.2	6.45	21.98	528	0.25	11.91	Clear	None
9:38 AM	3.75	0.15	14.67	155.1	6.42	21.92	514	0.25	15.08	Clear	None
9:43 AM	4.5	0.15	14.68	219.8	6.38	21.96	501	0.26	21.91	Clear	None
9:48 AM	5.25	0.15	14.68	197.4	6.42	22	502	0.23	5.9	Clear	None
9:53 AM	6	0.15	14.68	189.8	6.38	22.11	494	0.19	10.33	Clear	None
9:58 AM	6.75	0.15	14.69	204	6.33	22.16	466	0.28	14.75	Clear	None
10:03 AM	7.5	0.15	14.69	194.2	6.29	22.22	454	0.26	13.88	Clear	None
10:08 AM	8.25	0.15	14.7	186.1	6.3	22.24	449	0.22	20.2	Clear	None
11:15 AM	0	0	14.34	90	6.02	23	0	3.66	0.49	Clear	None
11:20 AM	0.7	0.14	14.37	85.9	6.05	21.08	480	0.64	1.32	Clear	None
11:25 AM	1.4	0.14	14.42	67.8	6.46	21.13	617	0.38	1.39	Clear	None
11:30 AM	2.1	0.14	14.43	57.9	6.48	21.2	570	0.3	1.36	Clear	None
11:35 AM	2.8	0.14	14.44	53.5	6.42	21.29	567	0.26	1.77	Clear	None
11:40 AM	3.5	0.14	14.45	51.3	6.35	21.24	554	0.25	3.67	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-17</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE: W-17-2022-Q4-Dup	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134	REMARKS:				
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-18R</b>		SAMPLE ID: W-18R-2022-Q4	DATE: 10/7/2022 12:07:00 PM	
TOTAL WELL DEPTH (feet) (A): 27.38		WATER TABLE DEPTH (feet) (B): 11.85	LENGTH OF WATER COLUMN (feet) (A-B): 15.53	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 22.50 - 27.50 ft		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/7/2022 11:18:00 AM	PURGING END TIME: 10/7/2022 12:05:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. ( $\mu$ s/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:20 AM	0	0	12.22	146.7	6.52	32.42	0	2.74	33.06	Clear	None
11:25 AM	0.7	0.14	12.95	133.3	7.13	24.27	3000	0.51	6.21	Clear	None
11:30 AM	1.2	0.1	13.23	130.5	7.15	25.21	2985	0.51	1.75	Clear	None
11:35 AM	1.7	0.1	13.61	130.6	7.17	25.07	2953	0.51	1.68	Clear	None
11:40 AM	2.2	0.1	13.79	130.1	7.24	24.95	2773	0.83	1.65	Clear	None
11:45 AM	2.7	0.1	13.98	129.4	7.34	24.83	2756	1.13	1.61	Clear	None
11:50 AM	3.2	0.1	14.09	129.2	7.35	25.3	2865	1.14	1.63	Clear	None
11:55 AM	3.7	0.1	14.17	128.9	7.37	25.21	3000	1.03	1.71	Clear	None
12:00 PM	4.2	0.1	14.24	128.3	7.38	25.04	3069	0.94	1.7	Clear	None
12:05 PM	4.7	0.1	14.27	128	7.4	25.26	3161	0.85	1.73	Clear	None
11:57 AM	0	0	12.35	81.8	6.69	24.97	0	4.76	1.93		
12:02 PM	0.6	0.12	12.92	60.5	7.01	21.42	2760	1.11	1.73		
12:07 PM	1.2	0.12	13.33	58	7.04	21.29	2771	1.08	1.58		
12:12 PM	1.8	0.12	13.65	96	7.13	21.32	2635	1.81	2.04		
12:17 PM	2.4	0.12	13.86	147.9	7.24	21.33	2522	2.97	5.74		
12:22 PM	3	0.12	14	157.5	7.29	21.32	2732	2.87	3.38		
12:27 PM	3.6	0.12	14.22	161	7.3	21.33	2890	2.62	2.73		
12:32 PM	4.2	0.12	14.2	157.9	7.31	21.22	3058	2.31	2.01		
12:37 PM	4.8	0.12	14.24	152.7	7.32	21.53	3196	2.58	2.45		
12:42 PM	5.4	0.12	14.26	145.6	7.33	21.69	3289	1.85	3.21		
12:47 PM	6	0.12	14.3	139.8	7.32	21.74	3406	2.03	3.92		
12:52 PM	6.6	0.12	14.33	133.6	7.34	21.88	3487	1.99	5.68		
12:57 PM	7.2	0.12	14.35	127.3	7.35	21.92	3605	1.95	6.18		

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-18R	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-19B</b>	SAMPLE ID: W-19B-2022-Q4	DATE: 10/18/2022 10:55:00 AM		
TOTAL WELL DEPTH (feet) (A): 42.96	WATER TABLE DEPTH (feet) (B): 26.07	LENGTH OF WATER COLUMN (feet) (A-B): 16.89		
CASING DIAMETER / MATL: 4 in, PVC	WELL SCREEN INTERVAL DEPTH: 30.50 - 40.50 ft	CALCULATED SYSTEM VOLUME (gallons): 11.03		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/18/2022 10:32:00 AM	PURGING END TIME: 10/18/2022 10:55:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:35 AM	0.3	0.1	26.12	307.3	5.58	18.77	85	7.14	2.35	Clear	None
10:40 AM	0.8	0.1	26.12	322.5	5.43	18.11	85	4.27	1.87	Clear	None
10:45 AM	1.3	0.1	26.12	328.6	5.42	18.06	85	4.19	1.25	Clear	None
10:50 AM	1.8	0.1	26.12	332.5	5.42	18.01	85	4.14	2.05	Clear	None
10:55 AM	2.3	0.1	26.12	331.8	5.42	18.17	85	4.13	1.24	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-19B</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-20</b>	SAMPLE ID: W-20-2022-Q4	DATE: 10/20/2022 12:57:00 PM		
TOTAL WELL DEPTH (feet) (A): 18.56	WATER TABLE DEPTH (feet) (B): 9.45	LENGTH OF WATER COLUMN (feet) (A-B): 9.11		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 10.50 - 15.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.49		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/20/2022 12:34:00 PM	PURGING END TIME: 10/20/2022 12:55:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:35 PM	0	0	9.47	63.1	5.94	19.19	109	3.8	2.05	Clear	None
12:40 PM	0.75	0.15	9.48	37.2	5.49	19.86	155	0.5	0.96	Clear	None
12:45 PM	1.5	0.15	9.48	51.1	5.39	19.72	147	0.27	1.02	Clear	None
12:50 PM	2.25	0.15	9.48	48.7	5.44	19.71	151	0.24	1.02	Clear	None
12:55 PM	3	0.15	9.48	54.6	5.42	19.75	150	0.25	1.33	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-20	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-22</b>		SAMPLE ID: W-22-2022-Q4	DATE: 10/7/2022 10:41:00 AM	
TOTAL WELL DEPTH (feet) (A): 14.53		WATER TABLE DEPTH (feet) (B): 11.19	LENGTH OF WATER COLUMN (feet) (A-B): 3.34	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 10.00 - 15.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.55	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/7/2022 9:57:00 AM	PURGING END TIME: 10/7/2022 10:39:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC. COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:59 AM	0	0	11.3	138.3	5.49	31.35	385	1.49	2.69	Clear	None
10:04 AM	0.6	0.12	11.36	162	4.85	26.08	186	0.62	2.03	Clear	None
10:09 AM	1.2	0.12	11.36	156.5	5.14	25.82	347	0.41	1.94	Clear	None
10:14 AM	1.8	0.12	11.37	154.3	5.4	25.65	654	0.35	1.82	Clear	None
10:19 AM	2.4	0.12	11.38	155.6	5.5	25.59	762	0.23	1.84	Clear	None
10:24 AM	3	0.12	11.39	157.7	5.53	25.6	822	0.22	1.88	Clear	None
10:29 AM	3.6	0.12	11.4	158.8	5.55	25.61	867	0.2	1.92	Clear	None
10:34 AM	4.2	0.12	11.41	160.3	5.53	25.66	875	0.2	1.85	Clear	None
10:39 AM	4.8	0.12	11.42	161.4	5.54	25.62	883	0.19	1.88	Clear	None
9:52 AM	0	0	11	124.5	5.62	21.14	5	3.99	8.22	Clear	None
9:57 AM	0.5	0.1	11.01	127.8	5.31	19.99	647	0.51	7.8	Clear	None
10:02 AM	1.1	0.12	11.02	131	5.34	19.89	629	0.37	2.95	Clear	None
10:07 AM	1.7	0.12	11.03	129.7	5.32	19.85	619	0.32	2.26	Clear	None
10:12 AM	2.3	0.12	11.04	130.5	5.32	19.82	642	0.27	1.97	Clear	None
10:17 AM	2.9	0.12	11.04	127.3	5.4	19.95	735	0.28	1.46	Clear	None
10:22 AM	3.5	0.12	11.04	121.8	5.44	20.06	754	0.24	1.31	Clear	None
10:27 AM	4.1	0.12	11.04	123.8	5.39	20.2	747	0.25	1.35	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-22	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-23R</b>	SAMPLE ID: W-23R-2022-Q4	DATE: 10/17/2022 11:16:00 AM		
TOTAL WELL DEPTH (feet) (A): 23.92	WATER TABLE DEPTH (feet) (B): 19.70	LENGTH OF WATER COLUMN (feet) (A-B): 4.22		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 16.00 - 21.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.69		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/17/2022 10:44:00 AM	PURGING END TIME: 10/17/2022 11:16:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:46 AM	0.24	0.12	19.79	262.3	5.85	20.01	59	6.05	1.68	Clear	None
10:51 AM	0.84	0.12	19.84	300.8	5.46	19.32	54	3.52	1.55	Clear	None
10:56 AM	1.44	0.12	19.86	320.2	5.37	19.34	53	3.39	1.47	Clear	None
11:01 AM	2.04	0.12	19.87	327.5	5.35	19.35	53	3.44	1.46	Clear	None
11:06 AM	2.64	0.12	19.87	332.5	5.35	19.36	53	3.3	1.48	Clear	None
11:11 AM	3.24	0.12	19.88	338	5.31	19.36	53	3.31	1.47	Clear	None
11:16 AM	3.84	0.12	19.88	340.6	5.33	19.36	53	3.43	1.43	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-23R	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-24</b>	SAMPLE ID: W-24-2022-Q4	DATE: 10/21/2022 9:12:00 AM		
TOTAL WELL DEPTH (feet) (A): 17.14	WATER TABLE DEPTH (feet) (B): 11.36	LENGTH OF WATER COLUMN (feet) (A-B): 5.78		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 10.00 - 15.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.94		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/21/2022 8:39:00 AM	PURGING END TIME: 10/21/2022 9:11:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:41 AM	0	0	11.4	107.1	5.49	9.29	0	8.25	3.93	Clear	None
8:46 AM	0.7	0.14	11.4	85.3	5.47	14.73	0	7.06	5.7	Clear	None
8:51 AM	1.4	0.14	11.4	100.6	5.39	19.9	48	0.66	3.36	Clear	None
8:56 AM	2.1	0.14	11.4	107	5.37	20.17	53	0.57	2.52	Clear	None
9:01 AM	2.8	0.14	11.4	108.3	5.38	20.34	55	0.52	2.47	Clear	None
9:06 AM	3.5	0.14	11.4	113.7	5.33	20.16	55	0.5	1.88	Clear	None
9:11 AM	4.2	0.14	11.4	120.5	5.26	20.16	57	0.52	2.27	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-24	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Alpha,Gross Beta,Tc-99,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-25</b>		SAMPLE ID: W-25-2022-Q4	DATE: 10/21/2022 11:02:00 AM	
TOTAL WELL DEPTH (feet) (A): 28.70		WATER TABLE DEPTH (feet) (B): 9.97	LENGTH OF WATER COLUMN (feet) (A-B): 18.73	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 22.50 - 27.50 ft	CALCULATED SYSTEM VOLUME (gallons): 3.06	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/21/2022 10:33:00 AM	PURGING END TIME: 10/21/2022 11:00:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mV)	pH (SU)	TEMP (degC)	SPEC.COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:35 AM	0	0	10	45.1	5.77	19.49	116	3.39	7.05	Clear	None
10:40 AM	0.6	0.12	10	-10.1	5.97	18.05	147	0.78	5.4	Clear	None
10:45 AM	1.2	0.12	10	-19.1	6.01	17.87	149	0.47	8.81	Clear	None
10:50 AM	1.8	0.12	10	-28.1	6.08	17.96	150	0.37	10.46	Clear	None
10:55 AM	2.4	0.12	10	-34	6.11	17.89	150	0.33	9.51	Clear	None
11:00 AM	3	0.12	10	-37.7	6.12	17.83	150	0.25	9.93	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-25	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-26</b>	SAMPLE ID: W-26-2022-Q4	DATE: 10/18/2022 9:29:00 AM		
TOTAL WELL DEPTH (feet) (A): 32.25	WATER TABLE DEPTH (feet) (B): 26.47	LENGTH OF WATER COLUMN (feet) (A-B): 5.78		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 25.50 - 30.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.94		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/18/2022 8:39:00 AM	PURGING END TIME: 10/18/2022 9:28:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:43 AM	0	0	26.49	234	5.64	16.64	206	3.1	1.72	Clear	None
8:48 AM	0.6	0.12	26.5	205.3	5.85	17.48	160	1.15	1.06	Clear	None
8:53 AM	1.3	0.14	26.51	204.7	5.81	17.89	156	0.64	1.53	Clear	None
8:58 AM	2	0.14	26.52	204.8	5.78	18	155	0.41	1.29	Clear	None
9:03 AM	2.7	0.14	26.52	208.6	5.7	18.12	153	0.44	0.93	Clear	None
9:08 AM	3.4	0.14	26.52	207.7	5.71	18.12	175	0.3	0.84	Clear	None
9:13 AM	4.1	0.14	26.52	209.3	5.67	18.17	174	0.28	1.83	Clear	None
9:18 AM	4.8	0.14	26.52	206.9	5.71	18.09	167	0.28	0.75	Clear	None
9:23 AM	5.5	0.14	26.52	209.5	5.66	18.14	167	0.25	2.26	Clear	None
9:28 AM	6.2	0.14	26.52	209.5	5.65	18.19	166	0.24	3.26	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-26</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Alpha,Gross Beta,Tc-99,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL
2	250 ml	Amber Glass	None	SVOCs	Pace

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-27</b>	SAMPLE ID: W-27-2022-Q4	DATE: 10/19/2022 2:09:00 PM		
TOTAL WELL DEPTH (feet) (A): 16.81	WATER TABLE DEPTH (feet) (B): 10.82	LENGTH OF WATER COLUMN (feet) (A-B): 5.99		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 10.00 - 15.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.98		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/19/2022 1:19:00 PM	PURGING END TIME: 10/19/2022 2:09:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:19 PM	0	0.1	11.1	-22.2	6.37	19.67	374	5.3	220.51	Cloudy	None
1:24 PM	0.5	0.1	11.2	-44.5	6.39	19.77	356	0.41	34.17	Clear	None
1:29 PM	1	0.1	11.21	-48.1	6.39	19.9	358	0.25	9.54	Clear	None
1:34 PM	1.5	0.1	11.22	-54.8	6.44	19.65	371	0.18	5.82	Clear	None
1:39 PM	2	0.1	11.22	-57.7	6.45	19.54	377	0.17	61.16	Clear	None
1:44 PM	2.5	0.1	11.23	-51	6.45	19.6	375	0.42	63.9	Clear	None
1:49 PM	3	0.1	11.23	-53.9	6.46	19.35	374	0.33	44.48	Clear	None
1:54 PM	3.5	0.1	11.23	-55.4	6.47	19.22	373	0.32	28.74	Clear	None
1:59 PM	4	0.1	11.23	-55.8	6.46	19.27	373	0.2	18.34	Clear	None
2:04 PM	4.5	0.1	11.23	-56.6	6.46	19.2	374	0.26	11.34	Clear	None
2:09 PM	5	0.1	11.23	-58.5	6.48	19.16	375	0.17	8.43	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-27	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-28</b>		SAMPLE ID: W-28-2022-Q4	DATE: 10/6/2022 1:30:00 PM	
TOTAL WELL DEPTH (feet) (A): 17.25		WATER TABLE DEPTH (feet) (B): 12.59	LENGTH OF WATER COLUMN (feet) (A-B): 4.66	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 10.00 - 15.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.76	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/6/2022 12:26:00 PM	PURGING END TIME: 10/6/2022 1:29:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC. COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:29 PM	0.3	0.1	12.68	227.2	6.91	25.86	530	5.67	4.87	Clear	None
12:34 PM	0.8	0.1	12.63	251.8	7	25.11	526	3.26	2.45	Clear	None
12:39 PM	1.3	0.1	12.62	266.9	7.01	25.05	526	3.15	2.37	Clear	None
12:44 PM	1.8	0.1	12.63	278.2	7.03	25.08	526	3.11	2.35	Clear	None
12:49 PM	2.3	0.1	12.64	293.6	7.02	25.07	529	3	2.36	Clear	None
12:54 PM	2.8	0.1	12.65	312.2	6.99	25.16	535	3.02	2.36	Clear	None
12:59 PM	3.3	0.1	12.66	325.9	6.98	25.23	539	2.99	2.33	Clear	None
1:04 PM	3.8	0.1	12.65	343.8	7.01	25.25	548	2.89	2.28	Clear	None
1:09 PM	4.3	0.1	12.65	353.6	7.02	25.29	552	2.81	2.41	Clear	None
1:14 PM	4.8	0.1	12.65	368.9	7.01	25.38	558	2.76	2.32	Clear	None
1:19 PM	5.3	0.1	12.65	385.4	6.99	25.31	572	2.65	2.42	Clear	None
1:24 PM	5.8	0.1	12.65	405.4	6.94	25.28	576	2.58	2.45	Clear	None
1:29 PM	6.3	0.1	12.65	425.4	6.89	25.21	593	2.42	2.38	Clear	None
9:21 AM	0	0	12.75	221.7	6.66	17.97	640	7.18	1.87	Clear	None
9:26 AM	0.5	0.1	12.76	249.4	6.79	19.28	641	4.69	0.96	Clear	None
9:31 AM	1.5	0.2	12.76	265.2	6.81	19.5	644	4.53	1.04	Clear	None
9:36 AM	3	0.3	12.76	284.2	6.81	19.58	643	4.49	0.94	Clear	None
9:41 AM	5	0.4	12.76	300.5	6.82	19.67	643	4.45	0.91	Clear	None
9:46 AM	7.5	0.5	12.76	315.7	6.82	19.77	643	4.36	0.93	Clear	None
9:51 AM	10.5	0.6	12.76	325.8	6.81	19.87	644	4.31	0.85	Clear	None
9:56 AM	14	0.7	12.76	336.9	6.8	19.93	645	4.26	1.03	Clear	None
10:01 AM	18	0.8	12.77	348.4	6.8	20.01	645	4.27	1.07	Clear	None
10:06 AM	22.5	0.9	12.77	356.6	6.77	19.95	644	4.3	1.06	Clear	None
10:11 AM	27.5	1	12.77	365.3	6.77	19.99	645	4.14	1.03	Clear	None

## GROUNDWATER SAMPLING LOG

10:16 AM	33	1.1	12.77	373.1	6.76	20.02	645	4.13	1.04	Clear	None
10:21 AM	39	1.2	12.77	376.9	6.75	20.07	644	4.05	0.94	Clear	None

SAMPLING DATA					
<b>WELL NO: W-28</b>		SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:
TUBING MATERIAL: Teflon		PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030			REMARKS:		
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: <b>pH:</b> + 1.0 units <b>Temperature:</b> + 3% <b>Specific Conductance:</b> + 3% <b>Dissolved Oxygen:</b> optionally, + 0.2 mg/L or + 10% (whichever is greater) <b>ORP:</b> + 10 mV <b>Turbidity:</b> all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-29</b>	SAMPLE ID: W-29-2022-Q4	DATE: 10/10/2022 1:40:00 PM		
TOTAL WELL DEPTH (feet) (A): 15.58	WATER TABLE DEPTH (feet) (B): 12.48	LENGTH OF WATER COLUMN (feet) (A-B): 3.10		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 9.00 - 14.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.51		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/10/2022 1:15:00 PM	PURGING END TIME: 10/10/2022 1:37:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:17 PM	0	0	12.51	176.9	6.78	22.61	486	3.94	1.29	Clear	None
1:22 PM	0.75	0.15	12.51	172	6.66	23.94	501	0.48	1.15	Clear	None
1:27 PM	1.5	0.15	12.51	169.5	6.6	24.04	501	0.24	1.23	Clear	None
1:32 PM	2.25	0.15	12.51	167.1	6.58	24.12	500	0.27	1.27	Clear	None
1:37 PM	3	0.15	12.51	163.5	6.59	24.16	503	0.22	1.29	Clear	None
11:32 AM	0	0	12.53	232.4	6.55	20.03	445	2	1.31	Clear	None
11:37 AM	0.5	0.1	12.54	213.7	6.56	20.16	442	0.51	1.28	Clear	None
11:42 AM	1.5	0.2	12.54	205.1	6.54	20.14	424	0.34	1.29	Clear	None
11:47 AM	3	0.3	12.54	199.5	6.58	20.23	420	0.32	1.3	Clear	None
11:52 AM	4.5	0.3	12.54	198.1	6.57	20.27	409	0.29	1.36	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-29	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-30</b>	SAMPLE ID: W-30-2022-Q4	DATE: 10/10/2022 12:28:00 PM		
TOTAL WELL DEPTH (feet) (A): 16.74	WATER TABLE DEPTH (feet) (B): 12.68	LENGTH OF WATER COLUMN (feet) (A-B): 4.06		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 10.00 - 15.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.66		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/10/2022 12:04:00 PM	PURGING END TIME: 10/10/2022 12:26:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC. COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:06 PM	0	0	12.7	154.3	6.25	23.09	938	6.35	1.47	Clear	None
12:11 PM	1	0.2	12.7	154.4	6.18	24.4	1183	0.46	1.24	Clear	None
12:16 PM	2	0.2	12.7	156.4	6.16	24.22	1168	0.45	1.33	Clear	None
12:21 PM	3	0.2	12.7	157.5	6.15	24.22	1167	0.41	1.35	Clear	None
12:26 PM	4	0.2	12.7	156.4	6.19	24.24	1182	0.38	1.34	Clear	None
1:39 PM	0	0	12.7	180.2	6.77	21.89	1081	6.88	6.79	Clear	None
1:44 PM	0.5	0.1	12.7	186.8	6.59	20.88	1104	0.68	5.8	Clear	None
1:49 PM	1.5	0.2	12.7	186.1	6.61	20.78	1105	0.55	4.16	Clear	None
1:54 PM	3	0.3	12.7	185.7	6.63	20.66	1101	0.47	5.48	Clear	None
1:59 PM	5	0.4	12.7	186.5	6.64	20.66	1091	0.56	1.72	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-30</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-32</b>		SAMPLE ID: W-32-2022-Q4	DATE: 10/4/2022 10:07:00 AM	
TOTAL WELL DEPTH (feet) (A): 23.96		WATER TABLE DEPTH (feet) (B): 19.26	LENGTH OF WATER COLUMN (feet) (A-B): 4.70	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 17.00 - 22.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.77	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/4/2022 9:30:00 AM	PURGING END TIME: 10/4/2022 10:05:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:40 AM	5	0.5	19.42	20.8	6.82	25.51	1704	0.63	1.48	Clear	None
9:45 AM	8	0.6	19.45	26.3	6.77	21.96	1653	0.31	1.02	Clear	None
9:50 AM	11	0.6	19.45	25.9	6.83	21.84	1648	0.24	1.07	Clear	None
9:55 AM	14	0.6	19.45	27.1	6.85	21.8	1639	0.26	1.14	Clear	None
10:00 AM	17	0.6	19.45	29.8	6.84	21.84	1636	0.26	1.69	Clear	None
10:05 AM	20	0.6	19.45	31.2	6.84	21.85	1630	0.21	1.08	Clear	None
9:34 AM	0	0	19.62	8.7	6.8	21.18	2038	4.19	1.33		
9:39 AM	0.8	0.16	19.68	20.1	6.76	20.6	1580	0.76	1.16		
9:44 AM	1.6	0.16	19.68	18.5	6.79	20.57	1575	0.52	1.15		
9:49 AM	2.4	0.16	19.68	20.5	6.76	20.67	1570	0.38	1.03		
9:54 AM	3.2	0.16	19.68	19	6.82	20.69	1565	0.27	1.12		
9:59 AM	4	0.16	19.68	17.4	6.83	20.82	1566	0.26	1.07		

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-32	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS,Gross Alpha,Gross Beta,Gross Alpha,Gross Beta,Gross Alpha,Gross Beta,Gamma Spec	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-33</b>	SAMPLE ID: W-33-2022-Q4	DATE: 10/13/2022 1:57:00 PM		
TOTAL WELL DEPTH (feet) (A): 21.11	WATER TABLE DEPTH (feet) (B): 15.73	LENGTH OF WATER COLUMN (feet) (A-B): 5.38		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 15.00 - 20.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.88		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/13/2022 1:34:00 PM	PURGING END TIME: 10/13/2022 1:56:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:36 PM	0	0	15.82	225.7	5.55	24.04	148	3.39	3.78	Clear	None
1:41 PM	0.7	0.14	15.82	242.7	5.37	21.59	148	1.46	1.57	Clear	None
1:46 PM	1.4	0.14	15.82	238	5.48	21.47	148	1.3	1.26	Clear	None
1:51 PM	2.1	0.14	15.82	236.2	5.53	21.42	148	1.27	1.28	Clear	None
1:56 PM	2.8	0.14	15.82	234.8	5.56	21.36	148	1.26	1.32	Clear	None
8:23 AM	0	0	15.87	81.4	7.15	10.53	51	8.08	3.42	Clear	None
8:28 AM	0.8	0.16	15.88	134.6	5.68	18	142	2.27	0.4	Clear	None
8:33 AM	1.6	0.16	15.88	138	5.67	18.14	141	2.11	0.48	Clear	None
8:38 AM	2.4	0.16	15.88	139.3	5.65	18.22	141	2	0.61	Clear	None
8:43 AM	3.2	0.16	15.88	145.9	5.51	17.94	141	2.16	0.61	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-33	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field param meter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Alpha,Gross Beta,Tc-99,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-35</b>	SAMPLE ID: W-35-2022-Q4	DATE: 10/11/2022 1:16:00 PM		
TOTAL WELL DEPTH (feet) (A): 22.88	WATER TABLE DEPTH (feet) (B): 12.02	LENGTH OF WATER COLUMN (feet) (A-B): 10.86		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 15.50 - 20.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.78		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/11/2022 12:52:00 PM	PURGING END TIME: 10/11/2022 1:15:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:54 PM	0.24	0.12	12.05	256.4	6.32	23.48	177	3.57	2.75	Clear	None
12:59 PM	0.84	0.12	12.05	266.4	6.2	23.21	178	3.31	2.92	Clear	None
1:05 PM	1.56	0.12	12.05	267.3	6.24	23.13	178	3.22	2.27	Clear	None
1:10 PM	2.16	0.12	12.05	267.3	6.28	23.12	178	3.2	2.23	Clear	None
1:15 PM	2.76	0.12	12.05	267.4	6.32	23.13	177	3.16	2.35	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-35</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-36</b>	SAMPLE ID: W-36-2022-Q4	DATE: 10/11/2022 10:35:00 AM		
TOTAL WELL DEPTH (feet) (A): 21.95	WATER TABLE DEPTH (feet) (B): 8.92	LENGTH OF WATER COLUMN (feet) (A-B): 13.03		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 15.00 - 20.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.13		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/11/2022 10:12:00 AM	PURGING END TIME: 10/11/2022 10:34:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:13 AM	0.12	0.12	9.26	210.4	5.78	23.85	48	3.47	20.02	Clear	None
10:18 AM	0.72	0.12	9.64	243.5	5.6	22.66	49	0.36	8.16	Clear	None
10:23 AM	1.22	0.1	9.58	251.4	5.63	22.9	49	0.21	9.54	Clear	None
10:29 AM	1.82	0.1	9.57	252.5	5.72	23.03	49	0.19	13	Clear	None
10:34 AM	2.32	0.1	9.58	253	5.76	23.09	49	0.17	16.14	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-36</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-37</b>	SAMPLE ID: W-37-2022-Q4	DATE: 10/10/2022 11:54:00 AM		
TOTAL WELL DEPTH (feet) (A): 22.77	WATER TABLE DEPTH (feet) (B): 12.23	LENGTH OF WATER COLUMN (feet) (A-B): 10.54		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 15.50 - 20.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.72		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/10/2022 11:32:00 AM	PURGING END TIME: 10/10/2022 11:53:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:33 AM	0.12	0.12	12.25	345.2	6.22	23.45	143	4.65	94.21	Cloudy	None
11:38 AM	0.72	0.12	12.27	339.3	6.25	23.53	143	3.86	13.96	Clear	None
11:43 AM	1.32	0.12	12.28	338.8	6.21	23.57	143	3.67	2.88	Clear	None
11:48 AM	1.92	0.12	12.28	335.3	6.23	23.45	143	3.64	2	Clear	None
11:53 AM	2.52	0.12	12.28	333.7	6.23	23.45	143	3.59	2.69	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-37	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-38</b>	SAMPLE ID: W-38-2022-Q4	DATE: 10/6/2022 1:49:00 PM		
TOTAL WELL DEPTH (feet) (A): 20.02	WATER TABLE DEPTH (feet) (B): 10.65	LENGTH OF WATER COLUMN (feet) (A-B): 9.37		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 15.00 - 20.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.53		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/6/2022 1:25:00 PM	PURGING END TIME: 10/6/2022 1:47:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:27 PM	0.75	0.38	10.77	180.1	4.99	34.23	211	2.51	3.07	Clear	None
1:32 PM	1.45	0.14	10.78	209	4.85	25.78	176	3.01	2.08	Clear	None
1:37 PM	2.15	0.14	10.79	205.6	4.97	25.45	177	2.97	1.98	Clear	None
1:42 PM	2.85	0.14	10.79	205.2	5.03	25.45	176	2.94	1.9	Clear	None
1:47 PM	3.55	0.14	10.79	206.1	5.05	25.39	177	2.92	1.8	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-38</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-39</b>	SAMPLE ID: W-39-2022-Q4	DATE: 10/14/2022 9:38:00 AM		
TOTAL WELL DEPTH (feet) (A): 25.25	WATER TABLE DEPTH (feet) (B): 16.25	LENGTH OF WATER COLUMN (feet) (A-B): 9.00		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 13.00 - 23.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.47		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/14/2022 8:55:00 AM	PURGING END TIME: 10/14/2022 9:37:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:57 AM	0	0	16.27	123.2	5.82	20.07	630	5.82	0.83	Clear	None
9:02 AM	0.8	0.16	16.27	159.8	5.55	22.08	769	3.07	0.94	Clear	None
9:07 AM	1.5	0.14	16.27	179.7	5.53	22.37	770	2.93	1.03	Clear	None
9:12 AM	2.2	0.14	16.27	194.1	5.51	22.66	773	2.86	1.13	Clear	None
9:17 AM	2.9	0.14	16.27	204.2	5.47	22.77	743	2.9	1.14	Clear	None
9:22 AM	3.6	0.14	16.27	212	5.44	22.86	737	3.01	1.22	Clear	None
9:27 AM	4.3	0.14	16.27	219.7	5.4	22.94	749	2.99	1.2	Clear	None
9:32 AM	5	0.14	16.27	222.9	5.41	23.01	735	2.95	1.28	Clear	None
9:37 AM	5.7	0.14	16.27	225.9	5.41	23.13	730	3	1.32	Clear	None
10:18 AM	0	0	16.29	106	6.11	19.21	0	5.89	0.85	Clear	None
10:23 AM	0.8	0.16	16.29	151.4	5.45	20.4	469	2.83	0.98	Clear	None
10:28 AM	1.6	0.16	16.29	157.5	5.46	20.33	466	2.74	1.01	Clear	None
10:33 AM	2.4	0.16	16.22	155.9	5.48	20.22	469	2.69	1.07	Clear	None
10:38 AM	3.2	0.16	16.29	159.3	5.41	20.28	474	2.69	1.11	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-39	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134	REMARKS:				
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Beta,Tc-99,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-40</b>	SAMPLE ID: W-40-2022-Q4	DATE: 10/11/2022 12:01:00 PM		
TOTAL WELL DEPTH (feet) (A): 17.23	WATER TABLE DEPTH (feet) (B): 12.24	LENGTH OF WATER COLUMN (feet) (A-B): 4.99		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 4.50 - 14.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.81		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/11/2022 11:19:00 AM	PURGING END TIME: 10/11/2022 11:59:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:24 AM	0	0	12.4	172.1	6.04	23.46	86	2	37.31	Clear	None
11:29 AM	0.6	0.12	12.73	171.9	5.99	23.46	80	1.5	43.8	Clear	None
11:34 AM	1.2	0.12	12.79	169.2	6.01	23.58	80	1.3	44.11	Clear	None
11:39 AM	1.8	0.12	12.82	165.3	6.05	23.74	79	1.03	42.53	Clear	None
11:44 AM	2.4	0.12	12.82	163.3	6.04	23.82	79	0.77	36.77	Clear	None
11:49 AM	3	0.12	12.82	164.9	5.97	23.91	79	0.6	30.77	Clear	None
11:54 AM	3.6	0.12	12.83	158.5	6.04	23.96	80	0.55	23.64	Clear	None
11:59 AM	4.2	0.12	12.84	159.4	5.98	24.03	80	0.52	19	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-40</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-41R</b>		SAMPLE ID: W-41R-2022-Q4	DATE: 10/17/2022 10:49:00 AM	
TOTAL WELL DEPTH (feet) (A): 27.10		WATER TABLE DEPTH (feet) (B): 15.95	LENGTH OF WATER COLUMN (feet) (A-B): 11.15	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 14.50 - 24.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.82	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/17/2022 10:26:00 AM	PURGING END TIME: 10/17/2022 10:48:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:28 AM	0	0	16.1	196.2	5.43	20.56	445	4.29	0.99	Clear	None
10:33 AM	0.7	0.14	16.07	206.8	5.33	20.11	442	3.65	0.99	Clear	None
10:38 AM	1.5	0.16	16.09	206.2	5.37	20.1	439	3.6	1.15	Clear	None
10:43 AM	2.3	0.16	16.09	209.2	5.34	20.09	438	3.56	0.92	Clear	None
10:48 AM	3.1	0.16	16.09	204.9	5.44	20.1	438	3.44	1.01	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-41R	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Beta,Tc-99,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL
2	250 ml	Amber Glass	None	SVOCs	Pace

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-42</b>	SAMPLE ID: W-42-2022-Q4	DATE: 10/14/2022 10:35:00 AM		
TOTAL WELL DEPTH (feet) (A): 32.98	WATER TABLE DEPTH (feet) (B): 26.16	LENGTH OF WATER COLUMN (feet) (A-B): 6.82		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 20.00 - 30.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.11		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/14/2022 10:10:00 AM	PURGING END TIME: 10/14/2022 10:34:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:13 AM	0.3	0.1	26.27	215.2	5.52	21.57	80	3.31	2.05	Clear	None
10:19 AM	0.9	0.1	26.37	280.2	5.12	20.55	74	0.37	1.74	Clear	None
10:23 AM	1.3	0.1	26.41	288.5	5.14	20.7	73	0.3	1.68	Clear	None
10:29 AM	1.9	0.1	26.43	290.6	5.18	20.94	73	0.3	1.67	Clear	None
10:34 AM	2.4	0.1	26.43	298.5	5.18	21.19	72	0.38	1.63	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-42</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-43</b>	SAMPLE ID: W-43-2022-Q4	DATE: 10/14/2022 10:54:00 AM		
TOTAL WELL DEPTH (feet) (A): 24.25	WATER TABLE DEPTH (feet) (B): 15.69	LENGTH OF WATER COLUMN (feet) (A-B): 8.56		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 11.00 - 21.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.40		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/14/2022 10:19:00 AM	PURGING END TIME: 10/14/2022 10:52:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:22 AM	0	0	15.71	199.8	5.83	23.44	94	4.24	1.38	Clear	None
10:27 AM	0.8	0.16	15.72	229.4	5.01	21.88	109	2.67	1.27	Clear	None
10:32 AM	1.5	0.14	15.72	230.9	5.04	22.1	108	2.62	1.23	Clear	None
10:37 AM	2.2	0.14	15.72	233.4	5.03	22.23	109	2.77	1.29	Clear	None
10:42 AM	2.9	0.14	15.72	235.3	5.06	22.29	107	3.25	1.22	Clear	None
10:47 AM	3.6	0.14	15.72	236.9	5.08	22.29	106	3.56	1.25	Clear	None
10:52 AM	4.3	0.14	15.72	238.3	5.1	22.27	106	3.66	1.28	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-43	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Beta,Tc-99,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-44</b>	SAMPLE ID: W-44-2022-Q4	DATE: 10/17/2022 1:41:00 PM		
TOTAL WELL DEPTH (feet) (A): 30.00	WATER TABLE DEPTH (feet) (B): 18.85	LENGTH OF WATER COLUMN (feet) (A-B): 11.15		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 17.00 - 27.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.82		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/17/2022 1:18:00 PM	PURGING END TIME: 10/17/2022 1:40:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:20 PM	0	0	18.94	209.8	5.06	22.41	81	4.79	1.24	Clear	None
1:25 PM	0.8	0.16	18.95	225.4	4.82	19.68	85	4.12	1.11	Clear	None
1:30 PM	1.6	0.16	18.95	228.4	4.87	19.57	83	4.04	1.02	Clear	None
1:35 PM	2.4	0.16	18.96	229.9	4.92	19.51	84	3.98	1.01	Clear	None
1:40 PM	3.2	0.16	18.95	235.4	4.87	19.53	84	3.95	0.99	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-44</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Beta,Tc-99,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-45</b>	SAMPLE ID: W-45-2022-Q4	DATE: 10/12/2022 9:20:00 AM		
TOTAL WELL DEPTH (feet) (A): 18.20	WATER TABLE DEPTH (feet) (B): 13.07	LENGTH OF WATER COLUMN (feet) (A-B): 5.13		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 5.50 - 15.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.84		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/12/2022 8:11:00 AM	PURGING END TIME: 10/12/2022 9:19:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:14 AM	0.36	0.12	13.38	90.4	6.68	20.84	68	7.38	24.55	Clear	None
8:19 AM	0.96	0.12	14.12	137	6.03	21.28	71	0.44	7.24	Clear	None
8:24 AM	1.46	0.1	14.22	108.3	6.02	21.78	68	0.36	7.1	Clear	None
8:29 AM	1.96	0.1	14.26	59.1	6.07	22.12	79	0.26	8.36	Clear	None
8:34 AM	2.46	0.1	14.27	35.3	6.15	22.45	88	0.21	10.1	Clear	None
8:39 AM	2.96	0.1	14.26	14.9	6.25	22.62	100	0.19	6.49	Clear	None
8:44 AM	3.46	0.1	14.26	-0.3	6.33	22.79	109	0.18	6.06	Clear	None
8:49 AM	3.96	0.1	14.26	-10.6	6.4	22.92	119	0.17	17.94	Clear	None
8:54 AM	4.46	0.1	14.26	-16.3	6.46	23.03	123	0.17	3.69	Clear	None
8:59 AM	4.96	0.1	14.26	-23.5	6.5	23.11	131	0.17	3.45	Clear	None
9:04 AM	5.46	0.1	14.27	-27.1	6.53	23.13	136	0.17	3.39	Clear	None
9:09 AM	5.96	0.1	14.27	-32.4	6.57	23.25	141	0.16	2.65	Clear	None
9:14 AM	6.46	0.1	14.27	-34.1	6.59	23.33	143	0.21	3.16	Clear	None
9:19 AM	6.96	0.1	14.27	-37.5	6.61	23.37	145	0.24	2.33	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-45</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-46</b>	SAMPLE ID: W-46-2022-Q4	DATE: 10/14/2022 11:42:00 AM		
TOTAL WELL DEPTH (feet) (A): 28.15	WATER TABLE DEPTH (feet) (B): 13.92	LENGTH OF WATER COLUMN (feet) (A-B): 14.23		
CASING DIAMETER / MATL: 4 in, PVC	WELL SCREEN INTERVAL DEPTH: 16.00 - 26.00 ft	CALCULATED SYSTEM VOLUME (gallons): 9.29		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/14/2022 11:19:00 AM	PURGING END TIME: 10/14/2022 11:41:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:21 AM	0.2	0.1	14.01	272.6	5.78	21.4	211	5.28	1.89	Clear	None
11:26 AM	0.7	0.1	14.24	275.6	5.85	20.21	214	0.32	1.67	Clear	None
11:31 AM	1.2	0.1	14.37	274	5.89	20.22	213	0.35	1.54	Clear	None
11:36 AM	1.7	0.1	14.49	272.6	5.92	20.2	213	0.23	1.68	Clear	None
11:41 AM	2.2	0.1	14.51	271.6	5.94	20.24	212	0.19	3.89	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-46</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-47</b>	SAMPLE ID: W-47-2022-Q4	DATE: 10/17/2022 9:10:00 AM		
TOTAL WELL DEPTH (feet) (A): 46.76	WATER TABLE DEPTH (feet) (B): 26.98	LENGTH OF WATER COLUMN (feet) (A-B): 19.78		
CASING DIAMETER / MATL: 4 in, PVC	WELL SCREEN INTERVAL DEPTH: 34.50 - 44.50 ft	CALCULATED SYSTEM VOLUME (gallons): 12.91		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/17/2022 8:45:00 AM	PURGING END TIME: 10/17/2022 9:09:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:49 AM	0.48	0.12	27.03	263.2	6.39	18.92	699	6.66	3.11	Clear	None
8:54 AM	1.08	0.12	27.05	260.8	6.38	18.94	731	0.46	1.92	Clear	None
8:59 AM	1.68	0.12	27.05	260.3	6.38	18.95	731	0.38	5.06	Clear	None
9:04 AM	2.28	0.12	27.05	259.5	6.38	18.98	731	0.31	2.46	Clear	None
9:09 AM	2.88	0.12	27.05	259.4	6.38	19.01	730	0.27	4.54	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-47</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: <b>pH:</b> + 1.0 units <b>Temperature:</b> + 3% <b>Specific Conductance:</b> + 3% <b>Dissolved Oxygen:</b> optionally, + 0.2 mg/L or + 10% (whichever is greater) <b>ORP:</b> + 10 mV <b>Turbidity:</b> all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Beta,Tc-99,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-48</b>	SAMPLE ID: W-48-2022-Q4	DATE: 10/18/2022 11:01:00 AM		
TOTAL WELL DEPTH (feet) (A): 44.10	WATER TABLE DEPTH (feet) (B): 27.28	LENGTH OF WATER COLUMN (feet) (A-B): 16.82		
CASING DIAMETER / MATL: 4 in, PVC	WELL SCREEN INTERVAL DEPTH: 31.50 - 41.50 ft	CALCULATED SYSTEM VOLUME (gallons): 10.98		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/18/2022 10:09:00 AM	PURGING END TIME: 10/18/2022 10:36:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:11 AM	0	0	27.38	206	5.66	15.03	0	5.93	0.8	Clear	None
10:16 AM	0.7	0.14	27.47	210.3	5.43	17.93	103	2.19	0.91	Clear	None
10:21 AM	1.4	0.14	27.53	218.7	5.39	18.18	116	2.06	0.73	Clear	None
10:26 AM	2.1	0.14	27.56	227.5	5.33	18.23	115	2.39	0.67	Clear	None
10:31 AM	2.8	0.14	27.58	236.3	5.26	18.27	115	2.14	1.01	Clear	None
10:36 AM	3.5	0.14	27.58	241.4	5.23	18.24	109	2.02	1.29	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-48</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Alpha,Gross Beta,Tc-99,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL
2	250 ml	Amber Glass	None	SVOCs	Pace

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-49</b>	SAMPLE ID: W-49-2022-Q4	DATE: 10/19/2022 8:16:00 AM		
TOTAL WELL DEPTH (feet) (A): 118.55	WATER TABLE DEPTH (feet) (B): 30.28	LENGTH OF WATER COLUMN (feet) (A-B): 88.27		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 108.00 - 118.00 ft	CALCULATED SYSTEM VOLUME (gallons): 14.41		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/19/2022 7:44:00 AM	PURGING END TIME: 10/19/2022 8:16:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
7:46 AM	0.2	0.1	30.28	216.8	5.74	12.39	35	6.37	0.93	Clear	None
7:51 AM	0.7	0.1	30.28	91.2	5.98	16.24	62	0.81	1683.91	Gray	None
7:56 AM	1.2	0.1	30.28	180.6	5.23	15.73	37	0.91	103.18	Cloudy	None
8:01 AM	1.7	0.1	30.28	200	4.99	15.71	34	0.58	20.29	Clear	None
8:06 AM	2.2	0.1	30.28	208.9	4.9	15.82	34	0.47	7.19	Clear	None
8:11 AM	2.7	0.1	30.28	210	4.84	15.81	34	0.39	4.74	Clear	None
8:16 AM	3.2	0.1	30.28	212.6	4.83	15.88	34	0.38	3.49	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-49</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-50</b>		SAMPLE ID: W-50-2022-Q4	DATE: 10/11/2022 1:07:00 PM	
TOTAL WELL DEPTH (feet) (A): 128.70		WATER TABLE DEPTH (feet) (B): 24.85	LENGTH OF WATER COLUMN (feet) (A-B): 103.85	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 115.00 - 125.00 ft		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/11/2022 12:26:00 PM	PURGING END TIME: 10/11/2022 1:05:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. ( $\mu$ s/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:30 PM	0	0	24.85	43.4	6.48	31.48	25	4.67	8.46	Clear	None
12:35 PM	0.6	0.12	24.85	41.9	4.43	24.15	29	0.98	134.81	Clear	None
12:40 PM	1.2	0.12	24.85	79.5	4.32	24.08	30	0.58	68.46	Clear	None
12:45 PM	1.8	0.12	24.85	102.3	4.21	24.01	30	0.44	64.46	Clear	None
12:50 PM	2.4	0.12	24.85	156.3	4.22	23.86	30	0.36	49.57	Clear	None
12:55 PM	3	0.12	24.85	126.3	4.25	23.89	30	0.36	55.31	Clear	None
1:00 PM	3.6	0.12	24.85	116.7	4.28	24.19	30	0.36	47.22	Clear	None
1:05 PM	4.2	0.12	24.85	119.7	4.34	24.3	30	0.34	48.34	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-50</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-51</b>	SAMPLE ID: W-51-2022-Q4	DATE: 10/12/2022 10:11:00 AM		
TOTAL WELL DEPTH (feet) (A): 14.54	WATER TABLE DEPTH (feet) (B): 9.51	LENGTH OF WATER COLUMN (feet) (A-B): 5.03		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 9.50 - 14.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.82		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/12/2022 9:48:00 AM	PURGING END TIME: 10/12/2022 10:10:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:50 AM	0.24	0.12	9.52	-89.4	6.65	23.89	222	3.32	6.29	Clear	None
9:55 AM	0.84	0.12	9.52	-134.3	6.99	24.35	220	0.29	3.02	Clear	None
10:00 AM	1.44	0.12	9.52	-147.7	7.06	24.62	222	0.15	2.36	Clear	None
10:05 AM	2.04	0.12	9.52	-152	7.1	24.68	222	0.1	2.34	Clear	None
10:10 AM	2.64	0.12	9.52	-156.6	7.13	24.74	222	0.08	2.43	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-51	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-52</b>	SAMPLE ID: W-52-2022-Q4	DATE: 10/12/2022 11:13:00 AM		
TOTAL WELL DEPTH (feet) (A): 15.10	WATER TABLE DEPTH (feet) (B): 9.38	LENGTH OF WATER COLUMN (feet) (A-B): 5.72		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 10.50 - 15.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.93		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/12/2022 10:35:00 AM	PURGING END TIME: 10/12/2022 11:12:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:37 AM	0.24	0.12	9.38	131.3	6.28	24.92	136	7.86	3.21	Clear	None
10:42 AM	0.84	0.12	9.38	125.7	6.2	25.24	142	0.68	2.69	Clear	None
10:47 AM	1.44	0.12	9.38	93.2	6.27	25.25	147	0.41	2.16	Clear	None
10:52 AM	2.04	0.12	9.38	72.1	6.33	25.27	151	0.42	2.13	Clear	None
10:57 AM	2.64	0.12	9.38	56.6	6.38	25.3	154	0.34	2.16	Clear	None
11:02 AM	3.24	0.12	9.38	45.4	6.43	25.27	156	0.46	2.18	Clear	None
11:07 AM	3.84	0.12	9.38	41.5	6.45	25.36	157	0.38	2.23	Clear	None
11:12 AM	4.44	0.12	9.38	35.6	6.47	25.44	158	0.34	2.09	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-52</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-53</b>	SAMPLE ID: W-53-2022-Q4	DATE: 10/10/2022 1:46:00 PM		
TOTAL WELL DEPTH (feet) (A): 15.47	WATER TABLE DEPTH (feet) (B): 9.66	LENGTH OF WATER COLUMN (feet) (A-B): 5.81		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 11.00 - 16.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.95		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/10/2022 1:24:00 PM	PURGING END TIME: 10/10/2022 1:46:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:26 PM	0.24	0.12	9.76	78.8	6.34	23.92	164	5.51	23.59	Clear	None
1:31 PM	0.84	0.12	9.77	47.6	6.44	24.18	161	0.34	10.4	Clear	None
1:36 PM	1.44	0.12	9.78	33.7	6.44	24.54	161	0.29	11.95	Clear	None
1:41 PM	2.04	0.12	9.78	33.8	6.42	24.7	158	0.39	2.73	Clear	None
1:46 PM	2.64	0.12	9.78	29.6	6.4	24.68	158	0.3	2.8	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-53	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-54</b>	SAMPLE ID: W-54-2022-Q4	DATE: 10/10/2022 1:00:00 PM		
TOTAL WELL DEPTH (feet) (A): 15.62	WATER TABLE DEPTH (feet) (B): 9.71	LENGTH OF WATER COLUMN (feet) (A-B): 5.91		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 11.00 - 16.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.96		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/10/2022 12:29:00 PM	PURGING END TIME: 10/10/2022 1:00:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:30 PM	0.12	0.12	9.73	324.4	6.13	23.03	138	7.03	2.37	Clear	None
12:35 PM	0.72	0.12	9.74	216	6.1	23.81	138	2.62	1.75	Clear	None
12:40 PM	1.32	0.12	9.74	185.9	6.16	24.12	141	2.38	1.84	Clear	None
12:45 PM	1.92	0.12	9.74	182	6.16	24.18	142	2.28	1.82	Clear	None
12:50 PM	2.52	0.12	9.74	175.5	6.17	24.3	145	2.19	1.92	Clear	None
12:55 PM	3.12	0.12	9.74	171.9	6.18	24.34	146	2.21	2.04	Clear	None
1:00 PM	3.72	0.12	9.74	169	6.18	24.36	147	2.16	1.94	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-54</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-55</b>	SAMPLE ID: W-55-2022-Q4	DATE: 10/7/2022 11:57:00 AM		
TOTAL WELL DEPTH (feet) (A): 15.07	WATER TABLE DEPTH (feet) (B): 9.81	LENGTH OF WATER COLUMN (feet) (A-B): 5.26		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 10.00 - 15.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.86		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/7/2022 11:32:00 AM	PURGING END TIME: 10/7/2022 11:55:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:35 AM	0.36	0.12	9.81	256.7	6.07	25.55	144	4.33	14.38	Clear	None
11:40 AM	0.96	0.12	9.82	257.1	6.1	25.37	145	3.61	4.77	Clear	None
11:45 AM	1.56	0.12	9.82	265.3	6.14	25.51	144	3.59	2.97	Clear	None
11:50 AM	2.16	0.12	9.82	271.8	6.14	25.57	145	3.55	2.54	Clear	None
11:55 AM	2.76	0.12	9.82	272.8	6.17	25.64	145	3.52	2.81	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-55</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-56</b>	SAMPLE ID: W-56-2022-Q4	DATE: 10/7/2022 11:10:00 AM		
TOTAL WELL DEPTH (feet) (A): 15.05	WATER TABLE DEPTH (feet) (B): 9.80	LENGTH OF WATER COLUMN (feet) (A-B): 5.25		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 10.00 - 15.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.86		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/7/2022 10:46:00 AM	PURGING END TIME: 10/7/2022 11:09:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:49 AM	0.36	0.12	9.88	280.7	5.87	24.45	151	3.24	1.83	Clear	None
10:54 AM	0.96	0.12	9.88	288.3	5.87	24.93	150	2.88	1.91	Clear	None
10:59 AM	1.56	0.12	9.88	290.3	5.88	25.81	147	2.84	2.38	Clear	None
11:04 AM	2.16	0.12	9.88	286.5	5.9	26.21	146	2.79	1.9	Clear	None
11:09 AM	2.76	0.12	9.88	284.4	5.94	26.35	146	2.78	2.06	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-56</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-57</b>	SAMPLE ID: W-57-2022-Q4	DATE: 10/7/2022 10:16:00 AM		
TOTAL WELL DEPTH (feet) (A): 15.00	WATER TABLE DEPTH (feet) (B): 10.20	LENGTH OF WATER COLUMN (feet) (A-B): 4.80		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 10.00 - 15.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.78		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/7/2022 9:48:00 AM	PURGING END TIME: 10/7/2022 10:15:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:50 AM	0.24	0.12	10.25	248.1	6.09	24.17	160	4.65	2.5	Clear	None
9:55 AM	0.84	0.12	10.29	267.1	5.75	23.86	168	1.36	2.03	Clear	None
10:00 AM	1.44	0.12	10.29	274.6	5.75	24.56	154	1.11	1.82	Clear	None
10:05 AM	2.04	0.12	10.3	278.1	5.77	25.18	147	0.92	1.9	Clear	None
10:10 AM	2.64	0.12	10.3	279	5.8	25.57	144	0.86	1.92	Clear	None
10:15 AM	3.24	0.12	10.3	278.6	5.83	25.63	145	0.86	1.91	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-57</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-58</b>	SAMPLE ID: W-58-2022-Q4	DATE: 10/7/2022 9:23:00 AM		
TOTAL WELL DEPTH (feet) (A): 15.05	WATER TABLE DEPTH (feet) (B): 10.88	LENGTH OF WATER COLUMN (feet) (A-B): 4.17		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 10.50 - 15.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.68		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/7/2022 8:55:00 AM	PURGING END TIME: 10/7/2022 9:21:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:56 AM	0.12	0.12	10.95	241.2	6.5	22.93	297	2.39	1.63	Clear	None
9:01 AM	0.72	0.12	10.95	237.6	6.5	23.58	308	0.19	1.63	Clear	None
9:06 AM	1.32	0.12	10.96	242.3	6.36	24.63	295	0.13	1.77	Clear	None
9:11 AM	1.92	0.12	10.96	240.9	6.33	25.53	291	0.11	1.85	Clear	None
9:16 AM	2.52	0.12	10.96	237.3	6.36	25.76	293	0.11	1.88	Clear	None
9:21 AM	3.12	0.12	10.96	232.7	6.41	25.86	293	0.09	1.92	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-58</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-59</b>		SAMPLE ID: W-59-2022-Q4	DATE: 10/7/2022 8:32:00 AM	
TOTAL WELL DEPTH (feet) (A): 15.02		WATER TABLE DEPTH (feet) (B): 11.07	LENGTH OF WATER COLUMN (feet) (A-B): 3.95	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 9.50 - 14.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.64	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/7/2022 8:03:00 AM	PURGING END TIME: 10/7/2022 8:31:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:06 AM	0.36	0.12	11.15	181.6	7.12	19.67	426	3.36	6.74	Clear	None
8:11 AM	0.96	0.12	11.22	195.4	6.79	20.4	431	0.59	1.38	Clear	None
8:16 AM	1.56	0.12	11.23	204.9	6.66	21.67	432	0.46	1.51	Clear	None
8:21 AM	2.16	0.12	11.22	219.1	6.43	22.21	434	0.37	1.55	Clear	None
8:26 AM	2.76	0.12	11.22	223.4	6.36	22.71	435	0.28	1.56	Clear	None
8:31 AM	3.36	0.12	11.22	224.5	6.35	23.15	437	0.28	1.62	Clear	None
10:40 AM	0	0	11.4	293.9	6.54	20.04	366	6.29	1.82	Clear	None
10:45 AM	0.5	0.1	11.48	289.4	6.37	20.58	364	0.47	1.27	Clear	None
10:50 AM	1.5	0.2	11.54	280.5	6.38	20.65	371	1.08	1.24	Clear	None
10:55 AM	3	0.3	11.54	275.4	6.38	20.63	369	0.49	1.35	Clear	None
11:00 AM	5	0.4	11.54	269.2	6.38	20.73	372	0.41	1.16	Clear	None
11:05 AM	7.5	0.5	11.54	264.1	6.38	20.79	371	0.33	1.18	Clear	None
11:10 AM	10.5	0.6	11.54	258.8	6.38	20.84	373	0.31	1.17	Clear	None
11:15 AM	14	0.7	11.54	254.2	6.38	20.88	375	0.33	1.25	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-59</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-60</b>	SAMPLE ID: W-60-2022-Q4	DATE: 10/14/2022 12:02:00 PM		
TOTAL WELL DEPTH (feet) (A): 40.78	WATER TABLE DEPTH (feet) (B): 22.98	LENGTH OF WATER COLUMN (feet) (A-B): 17.80		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 33.00 - 38.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.90		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/14/2022 11:31:00 AM	PURGING END TIME: 10/14/2022 12:00:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:35 AM	0	0	23	113.4	5.77	22.77	102	2.23	129.94	Clear	None
11:40 AM	0.7	0.14	23.01	80.3	5.42	19.06	110	0.63	25.97	Clear	None
11:45 AM	1.4	0.14	23.01	60.3	5.49	18.89	109	0.4	20.13	Clear	None
11:50 AM	2.1	0.14	23.01	52.7	5.54	18.87	109	0.37	16.42	Clear	None
11:55 AM	2.8	0.14	23.01	45.5	5.62	18.82	110	0.44	14.53	Clear	None
12:00 PM	3.5	0.14	23.01	44.4	5.58	18.76	109	0.41	15.25	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-60</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-61</b>	SAMPLE ID: W-61-2022-Q4	DATE: 10/14/2022 12:59:00 PM		
TOTAL WELL DEPTH (feet) (A): 26.70	WATER TABLE DEPTH (feet) (B): 19.44	LENGTH OF WATER COLUMN (feet) (A-B): 7.26		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 13.50 - 23.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.1.18		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/14/2022 12:25:00 PM	PURGING END TIME: 10/14/2022 12:57:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:27 PM	0	0	19.61	126.1	5.75	20.96	0	4.04	32.4	Clear	None
12:32 PM	0.6	0.12	19.79	197.5	4.96	19.27	94	1.93	5.56	Clear	None
12:37 PM	1.3	0.14	20.02	202.7	5.01	19.31	94	2.03	4.78	Clear	None
12:42 PM	1.9	0.12	20.23	206.2	5.05	19.39	97	2.42	5.09	Clear	None
12:47 PM	2.5	0.12	20.42	211.1	5.04	19.45	100	2.9	5.04	Clear	None
12:52 PM	3.1	0.12	20.58	215.6	5.02	19.47	102	3.08	5.39	Clear	None
12:57 PM	3.7	0.12	20.72	219.2	5.03	19.49	100	3.07	5.99	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-61	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-62</b>	SAMPLE ID: W-62-2022-Q4	DATE: 10/17/2022 12:45:00 PM		
TOTAL WELL DEPTH (feet) (A): 27.57	WATER TABLE DEPTH (feet) (B): 13.85	LENGTH OF WATER COLUMN (feet) (A-B): 13.72		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 20.00 - 25.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.24		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/17/2022 12:23:00 PM	PURGING END TIME: 10/17/2022 12:45:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:25 PM	0	0	13.95	185.2	5.41	22.6	0	4.48	33.06	Clear	None
12:30 PM	0.8	0.16	13.96	208.1	5.11	19.14	87	3.16	1.18	Clear	None
12:35 PM	1.6	0.16	13.96	207.6	5.21	19.12	87	3.09	2.4	Clear	None
12:40 PM	2.4	0.16	13.96	207.6	5.26	19.07	86	3.02	1.78	Clear	None
12:45 PM	3.2	0.16	13.96	214.7	5.19	19.03	86	3	1.72	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-62</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-63</b>		SAMPLE ID: W-63-2022-Q4	DATE: 10/13/2022 2:55:00 PM	
TOTAL WELL DEPTH (feet) (A): 44.11		WATER TABLE DEPTH (feet) (B): 27.03	LENGTH OF WATER COLUMN (feet) (A-B): 17.08	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 37.00 - 42.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.79	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/13/2022 1:53:00 PM	PURGING END TIME: 10/13/2022 2:52:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:57 PM	0.4	0.1	27.42	293.2	6.85	22.06	409	5.77	9.79	Clear	None
2:02 PM	0.9	0.1	27.68	270.8	7.08	21.23	422	0.59	8.55	Clear	None
2:07 PM	1.4	0.1	27.75	259.6	7.12	21.53	421	0.49	7.82	Clear	None
2:12 PM	1.9	0.1	27.81	252.3	7.15	21.56	419	0.44	12.79	Clear	None
2:17 PM	2.4	0.1	27.86	247.1	7.15	21.27	418	0.35	16.57	Clear	None
2:22 PM	2.9	0.1	27.85	237	7.15	21.28	413	0.35	18.84	Clear	None
2:27 PM	3.4	0.1	27.8	224.5	7.15	21.74	408	0.41	22.21	Clear	None
2:32 PM	3.9	0.1	27.82	209.5	7.15	21.74	402	0.31	25.94	Clear	None
2:37 PM	4.4	0.1	27.83	193	7.14	22.28	397	0.32	28.73	Clear	None
2:43 PM	5	0.1	27.85	180.3	7.11	22.16	393	0.3	39.5	Clear	None
2:47 PM	5.4	0.1	27.85	169.1	7.11	22.1	389	0.27	42.99	Clear	None
2:52 PM	5.9	0.1	27.85	159.2	7.1	22.27	386	0.24	61.82	Cloudy	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-63	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-64</b>	SAMPLE ID: W-64-2022-Q4	DATE: 10/17/2022 8:19:00 AM		
TOTAL WELL DEPTH (feet) (A): 34.19	WATER TABLE DEPTH (feet) (B): 27.30	LENGTH OF WATER COLUMN (feet) (A-B): 6.89		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 21.50 - 31.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.12		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/17/2022 7:49:00 AM	PURGING END TIME: 10/17/2022 8:18:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
7:53 AM	0.48	0.12	27.4	177.8	6.36	18.67	712	3.72	1.25	Clear	None
7:58 AM	1.08	0.12	27.43	214.4	6.28	19.02	709	0.32	1.44	Clear	None
8:03 AM	1.68	0.12	27.43	228.1	6.28	19.11	717	0.25	1.78	Clear	None
8:08 AM	2.28	0.12	27.43	236.3	6.28	19.16	720	0.2	1.36	Clear	None
8:13 AM	2.88	0.12	27.43	241	6.28	19.17	721	0.18	1.53	Clear	None
8:18 AM	3.48	0.12	27.43	245.8	6.28	19.16	722	0.17	1.41	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-64</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-65</b>	SAMPLE ID: W-65-2022-Q4	DATE: 10/13/2022 12:12:00 PM		
TOTAL WELL DEPTH (feet) (A): 34.44	WATER TABLE DEPTH (feet) (B): 14.16	LENGTH OF WATER COLUMN (feet) (A-B): 20.28		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 26.50 - 31.50 ft	CALCULATED SYSTEM VOLUME (gallons): 3.31		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/13/2022 11:49:00 AM	PURGING END TIME: 10/13/2022 12:11:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:51 AM	0	0	14.51	221.4	5.78	24.49	78	2.74	1.46	Clear	None
11:56 AM	0.7	0.14	14.64	244.1	5.51	21.25	113	0.57	1.27	Clear	None
12:01 PM	1.4	0.14	14.64	237.6	5.62	21.2	115	0.44	1.15	Clear	None
12:06 PM	2.1	0.14	14.64	233.6	5.67	21.15	115	0.37	1.11	Clear	None
12:11 PM	2.8	0.14	14.64	234.1	5.65	21.08	115	0.33	1.14	Clear	None
10:56 AM	0	0	14.51	188.4	6.57	17.71	122	4.93	20.39	Clear	None
11:01 AM	0.5	0.1	14.62	214.2	6.08	18.88	123	0.8	2.41	Clear	None
11:06 AM	1.5	0.2	14.63	224.4	5.97	19.36	119	0.58	1.21	Clear	None
11:11 AM	3	0.3	14.63	230	5.91	19.43	118	0.45	1.17	Clear	None
11:16 AM	5	0.4	14.63	234.8	5.84	19.59	119	0.35	13.35	Clear	None
11:21 AM	7.5	0.5	14.63	236.9	5.8	19.74	118	0.35	1.22	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-65</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-66</b>		SAMPLE ID: W-66-2022-Q4	DATE: 10/13/2022 12:59:00 PM	
TOTAL WELL DEPTH (feet) (A): 25.20		WATER TABLE DEPTH (feet) (B): 13.90	LENGTH OF WATER COLUMN (feet) (A-B): 11.30	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 12.50 - 22.50 ft		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/13/2022 12:31:00 PM	PURGING END TIME: 10/13/2022 12:58:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:33 PM	0	0	13.92	213.4	5.61	24.86	87	1.99	1.83	Clear	None
12:38 PM	0.7	0.14	13.92	263.7	4.88	22.2	81	0.66	1.39	Clear	None
12:43 PM	1.4	0.14	13.92	262.4	5.03	22.21	81	0.63	2.78	Clear	None
12:48 PM	2.1	0.14	13.92	262.7	5.1	22.18	84	0.41	3.57	Clear	None
12:53 PM	2.8	0.14	13.92	267.6	5.13	22.07	83	0.38	2.56	Clear	None
12:58 PM	3.5	0.14	13.92	267.7	5.17	22.06	84	0.33	7.36	Clear	None
11:33 AM	0	0	14.04	242.2	5.35	19.75	85	4.17	10.87	Clear	None
11:38 AM	0.5	0.1	14.04	265.3	5.22	19.72	84	1.01	1.3	Clear	None
11:43 AM	1.5	0.2	14.04	279.1	5.2	19.68	84	0.87	1.28	Clear	None
11:48 AM	3	0.3	14.04	287.6	5.18	19.57	84	0.83	1.45	Clear	None
11:53 AM	5	0.4	14.04	296.9	5.2	19.49	85	0.76	1.48	Clear	None
11:58 AM	7.5	0.5	14.04	300.6	5.18	19.56	85	0.69	1.47	Clear	None
12:04 PM	10.5	0.5	14.04	303.1	5.18	19.64	87	0.63	1.33	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-66</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-67</b>	SAMPLE ID: W-67-2022-Q4	DATE: 10/17/2022 12:48:00 PM		
TOTAL WELL DEPTH (feet) (A): 34.45	WATER TABLE DEPTH (feet) (B): 18.39	LENGTH OF WATER COLUMN (feet) (A-B): 16.06		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 22.00 - 32.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.62		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/17/2022 12:24:00 PM	PURGING END TIME: 10/17/2022 12:47:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:27 PM	0.36	0.12	18.55	278.5	6.05	20.35	209	4.3	1.72	Clear	None
12:32 PM	0.96	0.12	18.6	288.4	6.02	19.48	206	0.34	1.38	Clear	None
12:37 PM	1.46	0.1	18.55	291.9	6.02	19.58	207	0.29	1.35	Clear	None
12:42 PM	1.96	0.1	18.55	292.4	6.02	19.66	207	0.21	1.41	Clear	None
12:47 PM	2.46	0.1	18.55	293.5	6.02	19.6	208	0.21	1.47	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-67</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-68</b>	SAMPLE ID: W-68-2022-Q4	DATE: 10/17/2022 11:52:00 PM		
TOTAL WELL DEPTH (feet) (A): 21.25	WATER TABLE DEPTH (feet) (B): 7.11	LENGTH OF WATER COLUMN (feet) (A-B): 14.14		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 13.00 - 18.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.31		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/17/2022 11:29:00 AM	PURGING END TIME: 10/17/2022 11:51:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:31 AM	0	0	7.22	155.8	5.57	22.43	0	5.54	306.61	Clear	None
11:36 AM	0.7	0.14	7.25	185.8	5.13	19.65	90	4.64	1.6	Clear	None
11:41 AM	1.4	0.14	7.26	197	5.09	19.55	92	4.55	1.17	Clear	None
11:46 AM	2.1	0.14	7.27	199.3	5.13	19.43	90	4.51	1	Clear	None
11:51 AM	2.8	0.14	7.27	202.8	5.13	19.41	90	4.85	0.93	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-68</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-69</b>	SAMPLE ID: W-69-2022-Q4	DATE: 10/18/2022 2:02:00 PM		
TOTAL WELL DEPTH (feet) (A): 24.05	WATER TABLE DEPTH (feet) (B): 9.59	LENGTH OF WATER COLUMN (feet) (A-B): 14.46		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 8.00 - 18.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.36		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/18/2022 1:35:00 PM	PURGING END TIME: 10/18/2022 1:58:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:38 PM	0	0	10.1	138	5.68	22.5	82	1.04	67.3	Clear	None
1:43 PM	0.7	0.14	10.53	135.8	5.51	22.08	84	0.54	29.69	Clear	None
1:48 PM	1.3	0.12	10.92	133.1	5.52	22.07	84	0.44	10.6	Clear	None
1:53 PM	1.9	0.12	11.08	133	5.5	22.31	83	0.31	11.28	Clear	None
1:58 PM	2.5	0.12	11.16	133.1	5.49	22.1	83	0.3	7.82	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-69</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-70</b>	SAMPLE ID: W-70-2022-Q4	DATE: 10/18/2022 2:31:00 PM		
TOTAL WELL DEPTH (feet) (A): 51.92	WATER TABLE DEPTH (feet) (B): 13.90	LENGTH OF WATER COLUMN (feet) (A-B): 38.02		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 44.00 - 49.00 ft	CALCULATED SYSTEM VOLUME (gallons): 6.20		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/18/2022 2:04:00 PM	PURGING END TIME: 10/18/2022 2:26:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
2:06 PM	0.2	0.1	13.93	285.6	5.5	23.84	59	7.52	3.34	Clear	None
2:11 PM	0.7	0.1	13.94	337.9	5.1	21.23	59	5.62	2.59	Clear	None
2:16 PM	1.2	0.1	13.95	346	5.12	21.15	59	5.57	4.52	Clear	None
2:21 PM	1.7	0.1	13.95	348.5	5.16	21	59	5.54	15.49	Clear	None
2:26 PM	2.2	0.1	13.95	349.5	5.2	20.85	59	5.65	19.52	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-70</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-71</b>	SAMPLE ID: W-71-2022-Q4	DATE: 10/19/2022 9:33:00 AM		
TOTAL WELL DEPTH (feet) (A): 105.68	WATER TABLE DEPTH (feet) (B): 25.59	LENGTH OF WATER COLUMN (feet) (A-B): 80.09		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 93.00 - 103.00 ft	CALCULATED SYSTEM VOLUME (gallons): 13.07		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/19/2022 9:09:00 AM	PURGING END TIME: 10/19/2022 9:32:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:12 AM	0.3	0.1	25.6	250.1	5.11	16.54	41	7.24	10.41	Clear	None
9:17 AM	0.8	0.1	25.6	178.2	5.28	18.32	38	0.44	7.79	Clear	None
9:22 AM	1.3	0.1	25.6	168.8	5.24	18.93	37	0.32	3.05	Clear	None
9:27 AM	1.8	0.1	25.6	166.4	5.22	18.87	36	0.24	3.08	Clear	None
9:32 AM	2.3	0.1	25.6	165.6	5.19	18.89	36	0.2	1.99	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-71	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-72</b>	SAMPLE ID: W-72-2022-Q4	DATE: 10/11/2022 12:14:00 PM		
TOTAL WELL DEPTH (feet) (A): 14.46	WATER TABLE DEPTH (feet) (B): 9.45	LENGTH OF WATER COLUMN (feet) (A-B): 5.01		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 5.00 - 15.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.82		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/11/2022 11:46:00 AM	PURGING END TIME: 10/11/2022 12:13:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:47 AM	0.1	0.1	9.49	254.7	6.39	25.21	313	4.4	5.44	Clear	None
11:52 AM	0.6	0.1	9.49	243.7	6.57	24.02	312	1.97	21.95	Clear	None
11:57 AM	1.1	0.1	9.49	237	6.62	23.99	318	1.85	13.36	Clear	None
12:03 PM	1.7	0.1	9.49	231.5	6.64	23.96	314	1.67	10.41	Clear	None
12:08 PM	2.2	0.1	9.49	229.2	6.62	23.98	313	1.6	6.84	Clear	None
12:13 PM	2.7	0.1	9.49	227.8	6.62	23.88	311	1.62	6.02	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-72	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-73</b>	SAMPLE ID: W-73-2022-Q4	DATE: 10/10/2022 11:01:00 AM		
TOTAL WELL DEPTH (feet) (A): 15.77	WATER TABLE DEPTH (feet) (B): 9.76	LENGTH OF WATER COLUMN (feet) (A-B): 6.01		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 6.00 - 16.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.98		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/10/2022 10:28:00 AM	PURGING END TIME: 10/10/2022 11:00:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:30 AM	0.24	0.12	9.8	276.7	6.14	24.76	151	3.87	27.21	Clear	None
10:35 AM	0.84	0.12	9.8	392	6.14	24.89	152	0.33	13.8	Clear	None
10:40 AM	1.44	0.12	9.8	445	6.16	24.88	149	0.45	7.09	Clear	None
10:45 AM	2.04	0.12	9.8	450	6.13	24.85	145	0.72	4.48	Clear	None
10:50 AM	2.64	0.12	9.8	447.1	6.13	24.83	143	0.92	4.41	Clear	None
10:55 AM	3.24	0.12	9.8	444.5	6.13	24.78	142	0.98	2.25	Clear	None
11:00 AM	3.84	0.12	9.8	443.5	6.14	24.86	142	1	2.37	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-73	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-74</b>	SAMPLE ID: W-74-2022-Q4	DATE: 10/10/2022 9:50:00 AM		
TOTAL WELL DEPTH (feet) (A): 33.90	WATER TABLE DEPTH (feet) (B): 13.52	LENGTH OF WATER COLUMN (feet) (A-B): 20.38		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 25.50 - 30.50 ft	CALCULATED SYSTEM VOLUME (gallons): 3.33		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/10/2022 9:08:00 AM	PURGING END TIME: 10/10/2022 9:50:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:10 AM	0.26	0.13	13.73	176	6.08	22.32	140	5.56	3.95	Clear	None
9:15 AM	0.86	0.12	13.76	216.8	5.96	22.22	141	1.72	1.78	Clear	None
9:20 AM	1.46	0.12	13.77	231.1	5.92	22.27	140	1.78	1.76	Clear	None
9:25 AM	2.06	0.12	13.78	244.3	5.86	22.31	139	1.68	1.71	Clear	None
9:30 AM	2.66	0.12	13.77	250.8	5.84	22.28	139	1.63	1.86	Clear	None
9:35 AM	3.26	0.12	13.77	259.3	5.84	22.26	139	1.57	1.79	Clear	None
9:40 AM	3.86	0.12	13.77	265.7	5.81	22.26	139	1.53	1.8	Clear	None
9:45 AM	4.46	0.12	13.77	270.5	5.79	22.34	139	1.52	1.88	Clear	None
9:50 AM	5.06	0.12	13.77	272.7	5.81	22.39	139	1.52	1.86	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-74</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-75</b>	SAMPLE ID: W-75-2022-Q4	DATE: 10/10/2022 8:45:00 AM		
TOTAL WELL DEPTH (feet) (A): 18.60	WATER TABLE DEPTH (feet) (B): 13.18	LENGTH OF WATER COLUMN (feet) (A-B): 5.42		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 5.50 - 15.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.88		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/10/2022 8:19:00 AM	PURGING END TIME: 10/10/2022 8:45:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:20 AM	0.13	0.13	13.2	70.3	7.2	21.7	159	7.28	14.41	Clear	None
8:25 AM	0.78	0.13	13.21	91.4	6.42	22.27	161	0.4	16.22	Clear	None
8:30 AM	1.43	0.13	13.21	40.3	6.44	23.42	166	0.48	10.25	Clear	None
8:35 AM	2.08	0.13	13.21	21.3	6.45	23.83	176	0.25	3.28	Clear	None
8:40 AM	2.73	0.13	13.22	16.5	6.44	23.96	177	0.28	2.1	Clear	None
8:45 AM	3.38	0.13	13.22	12.3	6.43	24.09	177	0.19	1.87	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-75</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-76</b>	SAMPLE ID: W-76-2022-Q4	DATE: 10/6/2022 12:53:00 PM		
TOTAL WELL DEPTH (feet) (A): 14.95	WATER TABLE DEPTH (feet) (B): 10.67	LENGTH OF WATER COLUMN (feet) (A-B): 4.28		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 5.00 - 15.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.70		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/6/2022 12:30:00 PM	PURGING END TIME: 10/6/2022 12:51:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:31 PM	0	0	10.75	151.9	6.17	33.12	0	4.26	2.91	Clear	None
12:36 PM	0.75	0.15	10.8	210.8	4.4	27.37	184	3.78	2.08	Clear	None
12:41 PM	1.5	0.15	10.8	214	4.57	27.4	184	3.58	5.72	Clear	None
12:46 PM	2.25	0.15	10.8	218.8	4.58	27.41	184	3.55	2.67	Clear	None
12:51 PM	3	0.15	10.8	220.2	4.62	27.48	184	3.61	2.07	Clear	None
1:12 PM	0	0	10.97	210.6	7.51	22.45	192	6.49	34.58	Clear	None
1:17 PM	0.5	0.1	10.98	297.1	5.34	22.15	183	6.27	18.26	Clear	None
1:22 PM	1.5	0.2	10.98	310.1	5.25	22.08	183	6.07	25.37	Clear	None
1:27 PM	3	0.3	10.98	309.7	5.25	22.15	183	5.99	25.6	Clear	None
1:32 PM	5	0.4	10.98	316.4	5.2	22.07	181	5.89	16.13	Clear	None
1:37 PM	7.5	0.5	10.98	328.4	5.18	22.16	183	5.78	13.78	Clear	None
1:42 PM	10.5	0.6	10.98	334	5.17	22.09	183	5.71	11.86	Clear	None
1:47 PM	14	0.7	10.98	330.5	5.19	22.12	183	5.51	8.74	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-76</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-77</b>		SAMPLE ID: W-77-2022-Q4	DATE: 10/6/2022 10:16:00 AM	
TOTAL WELL DEPTH (feet) (A): 15.33		WATER TABLE DEPTH (feet) (B): 9.47	LENGTH OF WATER COLUMN (feet) (A-B): 5.86	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 5.50 - 15.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.96	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/6/2022 9:19:00 AM	PURGING END TIME: 10/6/2022 10:15:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:20 AM	0.1	0.1	9.5	106.7	12.12	22.89	5547	4.56	144.59	Cloudy	None
9:25 AM	0.6	0.1	9.52	47.9	12.1	23.29	5524	0.53	55.72	Clear	None
9:30 AM	1.1	0.1	9.55	34.8	11.93	24.1	4752	0.79	18.85	Clear	None
9:35 AM	1.6	0.1	9.57	29.5	11.77	25.09	4187	0.89	15.2	Clear	None
9:40 AM	2.1	0.1	9.58	22.2	11.77	25.42	4290	0.8	15.44	Clear	None
9:45 AM	2.6	0.1	9.59	12.3	11.85	25.76	4659	0.83	14.43	Clear	None
9:50 AM	3.1	0.1	9.59	2.9	11.91	25.86	4948	0.71	13.12	Clear	None
9:55 AM	3.6	0.1	9.59	-5.3	11.95	25.99	5148	0.63	11.06	Clear	None
10:00 AM	4.1	0.1	9.59	-12.9	11.97	26.04	5284	0.58	8.97	Clear	None
10:05 AM	4.6	0.1	9.6	-18.2	11.98	26.09	5394	0.56	8.68	Clear	None
10:10 AM	5.1	0.1	9.6	-23.5	11.98	26.21	5435	0.56	7.23	Clear	None
10:15 AM	5.6	0.1	9.6	-27.6	11.98	26.27	5488	0.54	6.48	Clear	None
11:57 AM	0	0	9.28	36.4	11.5	21.6	2546	3.91	149.35	Cloudy	None
12:02 PM	0.5	0.1	9.43	-7.4	11.53	20.62	2344	0.62	179.67	Cloudy	None
12:07 PM	1.5	0.2	9.36	-7.4	10.97	20.49	1243	1.19	222.1	Cloudy	None
12:12 PM	3	0.3	9.38	6.3	10.52	20.08	919	1.67	278.15	Cloudy	None
12:17 PM	5	0.4	9.38	-8.1	11.2	20.09	1585	1.54	201.64	Cloudy	None
12:22 PM	7.5	0.5	9.38	-18.8	11.35	20.17	1842	1.4	175.88	Cloudy	None
12:27 PM	10.5	0.6	9.39	-28	11.45	20.24	2042	1.27	157.51	Cloudy	None
12:32 PM	14	0.7	9.39	-35.6	11.5	20.34	2182	1.19	148.13	Cloudy	None
12:37 PM	18	0.8	9.39	-41.1	11.53	20.33	2252	1.16	143.02	Cloudy	None
12:42 PM	22.5	0.9	9.39	-45.7	11.53	20.37	2275	1.05	144.61	Cloudy	None
12:47 PM	27.5	1	9.39	-49.1	11.55	20.45	2330	1.01	143.25	Cloudy	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-77</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE: W-77-2022-Q4-DUP	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-78</b>		SAMPLE ID: W-78-2022-Q4	DATE: 10/6/2022 11:45:00 AM	
TOTAL WELL DEPTH (feet) (A): 15.13		WATER TABLE DEPTH (feet) (B): 10.01	LENGTH OF WATER COLUMN (feet) (A-B): 5.12	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 5.50 - 15.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.84	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/6/2022 11:16:00 AM	PURGING END TIME: 10/6/2022 11:44:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:19 AM	0.3	0.1	10.05	144.6	7.55	26.69	291	5.78	20.03	Clear	None
11:24 AM	0.8	0.1	10.05	220.2	6.62	25.71	265	3.56	3.17	Clear	None
11:29 AM	1.3	0.1	10.05	235.2	6.52	25.52	262	3.42	2.82	Clear	None
11:34 AM	1.8	0.1	10.05	243.8	6.49	25.51	260	3.32	2.57	Clear	None
11:39 AM	2.3	0.1	10.05	249.6	6.49	25.56	258	3.21	2.5	Clear	None
11:44 AM	2.8	0.1	10.05	252.2	6.52	25.45	260	3.16	2.44	Clear	None
8:28 AM	0	0	10.15	125.6	6.91	17.62	261	9.05	6.11	Clear	None
8:33 AM	0.5	0.1	10.15	177.2	6.55	18.67	262	5.78	4.07	Clear	None
8:38 AM	1.5	0.2	10.15	198.5	6.42	19.8	258	5.63	2.34	Clear	None
8:43 AM	3	0.3	10.15	210.7	6.33	20.02	258	5.55	2.08	Clear	None
8:48 AM	5	0.4	10.15	218.9	6.29	20.22	258	5.51	1.67	Clear	None
8:53 AM	7.5	0.5	10.15	224.9	6.25	20.17	256	5.41	1.14	Clear	None
8:58 AM	10.5	0.6	10.15	229.3	6.24	20.21	256	5.37	1.2	Clear	None
9:03 AM	14	0.7	10.15	231.7	6.23	20.24	256	5.38	1.07	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-78</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-79</b>		SAMPLE ID: W-79-2022-Q4	DATE: 10/5/2022 1:23:00 PM	
TOTAL WELL DEPTH (feet) (A): 15.34		WATER TABLE DEPTH (feet) (B): 8.89	LENGTH OF WATER COLUMN (feet) (A-B): 6.45	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 5.50 - 15.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.05	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/5/2022 12:53:00 PM	PURGING END TIME: 10/5/2022 1:20:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:55 PM	0	0	8.95	132.1	6.59	30.61	258	5.43	3.38	Clear	None
1:00 PM	0.6	0.12	8.98	149.5	6.13	27.64	201	5.51	2.02	Clear	None
1:05 PM	1.2	0.12	9	155.6	6.07	27.47	199	5.02	2.29	Clear	None
1:10 PM	1.8	0.12	9	156.2	6.03	27.57	198	4.6	1.93	Clear	None
1:15 PM	2.4	0.12	9	159.4	5.94	27.54	198	4.22	1.98	Clear	None
1:20 PM	3	0.12	9	161.9	5.92	27.47	197	4.04	1.97	Clear	None
1:12 PM	0	0	8.97	99.5	6.18	22.61	189	6.71	2.87	Clear	None
1:17 PM	0.7	0.14	9.02	124	6.17	21.88	191	6.73	1.91	Clear	None
1:22 PM	1.4	0.14	9.02	132.6	6.15	22	190	6.37	2.43	Clear	None
1:27 PM	2.1	0.14	9.02	139.2	6.14	21.98	190	6.12	2.04	Clear	None
1:32 PM	2.8	0.14	9.02	144.8	6.08	22.05	190	5.85	1.81	Clear	None
1:37 PM	3.5	0.14	9.02	147.2	6.05	22.08	190	5.66	2.14	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-79	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-80</b>		SAMPLE ID: W-80-2022-Q4	DATE: 10/5/2022 1:45:00 PM	
TOTAL WELL DEPTH (feet) (A): 15.34		WATER TABLE DEPTH (feet) (B): 10.86	LENGTH OF WATER COLUMN (feet) (A-B): 4.48	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 5.50 - 15.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.73	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/5/2022 1:01:00 PM	PURGING END TIME: 10/5/2022 1:44:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC. COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:04 PM	0.36	0.12	11.11	272	5.79	26.86	255	2.53	3.03	Clear	None
1:09 PM	0.86	0.1	11.51	284.8	5.76	26.85	270	2.34	5.46	Clear	None
1:14 PM	1.36	0.1	12.12	294.9	5.73	26.75	264	2.09	42.63	Clear	None
1:19 PM	1.86	0.1	12.28	294.3	5.75	27.01	264	2.5	27.9	Clear	None
1:24 PM	2.36	0.1	12.25	293.9	5.77	27.17	253	2.37	10.8	Clear	None
1:29 PM	2.86	0.1	12.45	297.5	5.8	26.43	235	2	5.22	Clear	None
1:34 PM	3.36	0.1	12.65	299.1	5.8	26.44	228	1.8	8.41	Clear	None
1:39 PM	3.86	0.1	12.78	296.5	5.83	26.49	223	1.65	7.46	Clear	None
1:44 PM	4.36	0.1	12.88	296.3	5.84	26.56	223	1.57	9.55	Clear	None
12:16 PM	0	0	11.53	84	6.54	27.43	3	3.31	10.5	Clear	None
12:21 PM	0.9	0.18	12.25	145.8	5.29	21.76	276	2.91	22.11	Clear	None
12:26 PM	1.4	0.1	12.6	142.4	5.36	21.71	273	2.84	33.83	Clear	None
12:31 PM	1.9	0.1	12.85	144.2	5.44	21.85	271	2.35	33.22	Clear	None
12:36 PM	2.3	0.08	12.97	149.8	5.4	21.78	268	2.34	31	Clear	None
12:41 PM	2.7	0.08	13.18	147.1	5.46	21.77	266	1.88	16.85	Clear	None
12:46 PM	3.1	0.08	13.32	148.5	5.43	21.76	263	1.74	9.74	Clear	None
12:51 PM	3.5	0.08	13.48	144.3	5.49	21.79	261	1.61	10.05	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-80</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field param meter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-81</b>	SAMPLE ID: W-81-2022-Q4	DATE: 10/5/2022 12:27:00 PM		
TOTAL WELL DEPTH (feet) (A): 15.33	WATER TABLE DEPTH (feet) (B): 12.18	LENGTH OF WATER COLUMN (feet) (A-B): 3.15		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 5.50 - 15.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.51		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/5/2022 11:41:00 AM	PURGING END TIME: 10/5/2022 12:27:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:42 AM	0.1	0.1	12.45	191.6	6.04	24.37	203	3.59	27.5	Clear	None
11:47 AM	0.6	0.1	12.85	170.7	6.05	23.39	208	0.22	4.64	Clear	None
11:52 AM	1.1	0.1	13.08	163.1	6.14	23.34	233	0.17	4.78	Clear	None
11:57 AM	1.6	0.1	13.26	152.9	6.3	23.22	292	0.14	2.91	Clear	None
12:02 PM	2.1	0.1	13.36	143.1	6.45	23.1	352	0.15	3.23	Clear	None
12:07 PM	2.6	0.1	13.45	134.4	6.54	23.08	390	0.23	2.54	Clear	None
12:12 PM	3.1	0.1	13.49	130.9	6.62	23.07	413	0.26	2.23	Clear	None
12:17 PM	3.6	0.1	13.52	138.1	6.7	23.06	437	0.36	1.98	Clear	None
12:22 PM	4.1	0.1	13.53	139.3	6.71	23.06	442	0.45	2.15	Clear	None
12:27 PM	4.6	0.1	13.57	139.8	6.71	23.06	442	0.5	1.94	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-81	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-82</b>		SAMPLE ID: W-82-2022-Q4	DATE: 10/5/2022 10:55:00 AM	
TOTAL WELL DEPTH (feet) (A): 15.35		WATER TABLE DEPTH (feet) (B): 12.80	LENGTH OF WATER COLUMN (feet) (A-B): 2.55	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 5.50 - 15.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.42	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/5/2022 9:36:00 AM	PURGING END TIME: 10/5/2022 10:55:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:39 AM	0.3	0.1	13.1	193.8	5.73	23.69	218	4.67	62.32	Clear	None
9:44 AM	0.8	0.1	13.38	246.5	5.63	23.62	214	0.38	16.1	Clear	None
9:49 AM	1.3	0.1	13.59	249.9	5.65	23.79	208	0.38	23.69	Clear	None
9:54 AM	1.8	0.1	13.73	246.5	5.63	23.71	206	0.4	21.98	Clear	None
9:59 AM	2.3	0.1	13.92	231.4	5.63	23.74	199	0.41	36.54	Clear	None
10:04 AM	2.8	0.1	14.12	235.8	5.65	23.62	202	0.5	50.13	Clear	None
10:09 AM	3.3	0.1	14.3	224.9	5.63	23.89	204	0.75	65.99	Clear	None
10:14 AM	3.8	0.1	14.45	225.9	5.66	23.68	206	1.16	92.58	Cloudy	None
10:19 AM	4.3	0.1	14.63	240.2	5.67	23.74	207	1.54	98.92	Cloudy	None
10:24 AM	4.8	0.1	14.82	235.3	5.69	23.72	209	1.56	94.9	Cloudy	None
10:29 AM	5.3	0.1	14.8	243.4	5.69	23.86	210	2.2	96.8	Cloudy	None
10:35 AM	5.9	0.1	14.8	265.2	5.68	23.95	210	2.33	51.79	Clear	None
10:40 AM	6.4	0.1	14.8	277.7	5.66	24.15	209	2.34	40.87	Clear	None
10:45 AM	6.9	0.1	14.81	283.4	5.65	24.11	209	2.39	36.56	Clear	None
10:50 AM	7.4	0.1	14.81	285.8	5.66	24.2	209	2.42	36.09	Clear	None
10:55 AM	7.9	0.1	14.81	289.5	5.66	24.26	208	2.38	31.29	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-82</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-83</b>	SAMPLE ID: W-83-2022-Q4	DATE: 10/5/2022 8:56:00 AM		
TOTAL WELL DEPTH (feet) (A): 26.05	WATER TABLE DEPTH (feet) (B): 14.00	LENGTH OF WATER COLUMN (feet) (A-B): 12.05		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 16.50 - 26.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.97		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/5/2022 8:08:00 AM	PURGING END TIME: 10/5/2022 8:55:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:10 AM	0.26	0.13	14.28	200.4	6.28	19.49	188	7.45	23.3	Clear	None
8:15 AM	0.91	0.13	14.7	186.7	6.04	19.36	194	0.41	20.17	Clear	None
8:20 AM	1.56	0.13	14.88	193.8	6.02	20.28	182	0.41	13.68	Clear	None
8:25 AM	2.21	0.13	15.04	201.3	5.99	21.27	170	0.52	11.37	Clear	None
8:30 AM	2.86	0.13	15.2	205.8	5.98	21.83	166	0.61	11.87	Clear	None
8:35 AM	3.51	0.13	15.33	208.3	5.97	22.13	158	0.76	11.66	Clear	None
8:40 AM	4.16	0.13	15.47	210	5.99	22.14	149	0.95	14.58	Clear	None
8:45 AM	4.66	0.1	15.44	211.4	6.03	22.14	142	1.02	14.11	Clear	None
8:50 AM	5.16	0.1	15.42	213.6	6.04	22.27	141	1.05	16.57	Clear	None
8:55 AM	5.66	0.1	15.42	214.1	6.04	22.08	139	1.1	9.49	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-83</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-84</b>	SAMPLE ID: W-84-2022-Q4	DATE: 10/4/2022 12:45:00 PM		
TOTAL WELL DEPTH (feet) (A): 20.33	WATER TABLE DEPTH (feet) (B): 7.21	LENGTH OF WATER COLUMN (feet) (A-B): 13.12		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 11.00 - 21.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.14		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/4/2022 11:56:00 AM	PURGING END TIME: 10/4/2022 12:43:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:58 AM	0.3	0.15	7.48	77.7	6.99	26.1	235	5.34	33.59	Clear	None
12:03 PM	0.95	0.13	7.81	60.4	6.51	25.58	231	0.27	7.46	Clear	None
12:08 PM	1.6	0.13	8.01	56.1	6.49	25.72	227	0.31	4.13	Clear	None
12:13 PM	2.25	0.13	8.26	52.8	6.47	25.96	228	0.33	5.53	Clear	None
12:18 PM	2.9	0.13	8.47	60.7	6.41	26.06	218	0.13	25.04	Clear	None
12:23 PM	3.55	0.13	8.68	84.2	6.23	26.08	189	0.28	56.95	Clear	None
12:28 PM	4.2	0.13	8.85	98.7	6.13	26.2	176	0.16	17.04	Clear	None
12:33 PM	4.85	0.13	8.97	108.1	6.09	26.35	171	0.16	17.62	Clear	None
12:38 PM	5.5	0.13	9.12	113.6	6.08	26.3	167	0.34	17.87	Clear	None
12:43 PM	6.15	0.13	9.34	118	6.06	26.4	168	0.26	16.03	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-84</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-85</b>		SAMPLE ID: W-85-2022-Q4	DATE: 10/19/2022 11:54:00 AM	
TOTAL WELL DEPTH (feet) (A): 47.80		WATER TABLE DEPTH (feet) (B): 21.41	LENGTH OF WATER COLUMN (feet) (A-B): 26.39	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 40.00 - 45.00 ft	CALCULATED SYSTEM VOLUME (gallons): 4.31	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/19/2022 10:55:00 AM	PURGING END TIME: 10/19/2022 11:53:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:58 AM	0.3	0.1	21.82	-3	9.34	19.51	268	6.16	5.95	Clear	None
11:03 AM	0.8	0.1	22.29	-0.2	10.93	19.1	552	1.22	1.46	Clear	None
11:08 AM	1.3	0.1	22.28	-5.6	10.73	18.82	392	0.89	2.91	Clear	None
11:13 AM	1.8	0.1	22.29	-2.7	9.83	19	255	0.39	10.69	Clear	None
11:18 AM	2.3	0.1	22.29	-3.4	9.16	18.99	243	0.16	16.11	Clear	None
11:23 AM	2.8	0.1	22.29	-236.7	8.39	19	249	0.1	15.64	Clear	None
11:28 AM	3.3	0.1	22.29	-187.6	7.71	18.99	250	0.04	12.89	Clear	None
11:33 AM	3.8	0.1	22.31	-140.5	7.43	19.16	258	0.05	7.43	Clear	None
11:38 AM	4.3	0.1	22.31	-103.1	7.11	19.08	256	0.06	6.82	Clear	None
11:43 AM	4.8	0.1	22.32	-87.4	6.97	19.06	257	0.07	4.65	Clear	None
11:48 AM	5.3	0.1	22.32	-89.1	6.93	19.29	257	0.08	5.82	Clear	None
11:53 AM	5.8	0.1	22.32	-77.4	6.84	19.17	258	0.08	6.55	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-85</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-86</b>	SAMPLE ID: W-86-2022-Q4	DATE: 10/19/2022 10:33:00 AM		
TOTAL WELL DEPTH (feet) (A): 38.22	WATER TABLE DEPTH (feet) (B): 20.29	LENGTH OF WATER COLUMN (feet) (A-B): 17.93		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 25.00 - 35.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.93		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/19/2022 10:09:00 AM	PURGING END TIME: 10/19/2022 10:32:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:12 AM	0.3	0.1	20.77	169.2	5.62	18.03	274	3.41	44.53	Clear	None
10:17 AM	0.8	0.1	21.4	143.6	5.68	18.4	276	0.48	35.21	Clear	None
10:22 AM	1.3	0.1	21.6	139.5	5.7	18.48	276	0.4	18.4	Clear	None
10:27 AM	1.8	0.1	21.65	140.7	5.7	18.57	275	0.25	14.44	Clear	None
10:32 AM	2.3	0.1	21.69	140	5.71	18.78	275	0.3	13.6	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-86</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-87</b>	SAMPLE ID: W-87-2022-Q4	DATE: 10/11/2022 8:30:00 AM		
TOTAL WELL DEPTH (feet) (A): 33.02	WATER TABLE DEPTH (feet) (B): 9.19	LENGTH OF WATER COLUMN (feet) (A-B): 23.83		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 28.00 - 33.00 ft	CALCULATED SYSTEM VOLUME (gallons): 3.89		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/11/2022 8:00:00 AM	PURGING END TIME: 10/11/2022 8:29:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:04 AM	0.48	0.12	9.54	146	6.78	21.61	106	1.27	39.87	Clear	None
8:09 AM	1.08	0.12	9.58	159.4	6.71	20.64	108	0.48	32.96	Clear	None
8:14 AM	1.68	0.12	9.62	172.6	6.63	21.35	108	0.29	25.05	Clear	None
8:19 AM	2.28	0.12	9.63	180	6.6	21.87	108	0.25	24.09	Clear	None
8:24 AM	2.88	0.12	9.67	184.4	6.57	22.17	107	0.18	24.28	Clear	None
8:29 AM	3.48	0.12	9.7	189.5	6.51	22.2	106	0.17	24.02	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-87</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-88</b>	SAMPLE ID: W-88-2022-Q4	DATE: 10/18/2022 1:22:00 PM		
TOTAL WELL DEPTH (feet) (A): 44.36	WATER TABLE DEPTH (feet) (B): 24.58	LENGTH OF WATER COLUMN (feet) (A-B): 19.78		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 36.50 - 41.50 ft	CALCULATED SYSTEM VOLUME (gallons): 3.23		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/18/2022 12:57:00 PM	PURGING END TIME: 10/18/2022 1:21:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:01 PM	0.4	0.1	24.75	297.5	5.57	21.92	72	7.91	2.65	Clear	None
1:06 PM	0.9	0.1	24.85	301	5.67	19.85	74	5.79	2.08	Clear	None
1:11 PM	1.4	0.1	24.88	299.9	5.78	19.53	74	5.64	1.87	Clear	None
1:16 PM	1.9	0.1	24.9	299.2	5.82	19.68	73	5.55	8.04	Clear	None
1:21 PM	2.4	0.1	24.92	298.6	5.86	19.52	73	5.6	3.73	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-88</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-89</b>	SAMPLE ID: W-89-2022-Q4	DATE: 10/18/2022 12:32:00 PM		
TOTAL WELL DEPTH (feet) (A): 28.22	WATER TABLE DEPTH (feet) (B): 23.44	LENGTH OF WATER COLUMN (feet) (A-B): 4.78		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 15.50 - 25.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.78		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/18/2022 12:08:00 PM	PURGING END TIME: 10/18/2022 12:32:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:12 PM	0.4	0.1	23.48	319.9	5.34	19.67	75	6.83	2.35	Clear	None
12:17 PM	0.9	0.1	23.48	338.2	5.24	19.11	75	6.01	1.89	Clear	None
12:22 PM	1.4	0.1	23.49	342.1	5.22	19.04	75	5.97	1.94	Clear	None
12:27 PM	1.9	0.1	23.49	344.4	5.23	19.05	75	5.84	2.22	Clear	None
12:32 PM	2.4	0.1	23.49	347	5.25	19.12	75	5.81	6.51	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-89</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-90</b>	SAMPLE ID: W-90-2022-Q4	DATE: 10/18/2022 9:44:00 AM		
TOTAL WELL DEPTH (feet) (A): 43.03	WATER TABLE DEPTH (feet) (B): 28.26	LENGTH OF WATER COLUMN (feet) (A-B): 14.77		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 35.00 - 40.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.41		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/18/2022 8:59:00 AM	PURGING END TIME: 10/18/2022 9:43:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:03 AM	0.4	0.1	28.44	235.2	6.18	17.79	75	8.4	2.54	Clear	None
9:08 AM	0.9	0.1	28.45	285.9	5.48	17.43	72	4.51	2	Clear	None
9:13 AM	1.4	0.1	28.44	297.8	5.41	17.54	72	4.55	1.28	Clear	None
9:18 AM	1.9	0.1	28.45	307.5	5.38	17.66	72	4.54	1.33	Clear	None
9:23 AM	2.4	0.1	28.45	313.8	5.38	17.64	71	4.56	1.4	Clear	None
9:28 AM	2.9	0.1	28.45	319.6	5.37	17.7	71	4.56	1.81	Clear	None
9:33 AM	3.4	0.1	28.45	327.4	5.34	17.84	71	4.55	1.68	Clear	None
9:38 AM	3.9	0.1	28.45	332.8	5.32	17.91	71	4.54	1.18	Clear	None
9:43 AM	4.4	0.1	28.45	336.4	5.31	18	71	4.5	1.36	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-90</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-91</b>	SAMPLE ID: W-91-2022-Q4	DATE: 10/18/2022 10:07:00 AM		
TOTAL WELL DEPTH (feet) (A): 28.28	WATER TABLE DEPTH (feet) (B): 28.07	LENGTH OF WATER COLUMN (feet) (A-B): 0.21		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 15.00 - 25.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.03		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: NA	PURGING END TIME: NA	PUMP TYPE: NA

<b>SAMPLING DATA</b>				
<b>WELL NO: W-91</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:
TUBING MATERIAL: NA	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded		DUPLICATE:	
FIELD EQUIPMENT USED: WL/int meter: Solinst 107 # 30030		REMARKS: Well did not contain enough groundwater to be purged so, a groundwater sample was not collected.		

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-92</b>	SAMPLE ID: W-92-2022-Q4	DATE: 10/19/2022 12:59:00 PM		
TOTAL WELL DEPTH (feet) (A): 36.85	WATER TABLE DEPTH (feet) (B): 16.67	LENGTH OF WATER COLUMN (feet) (A-B): 20.18		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 29.00 - 34.00 ft	CALCULATED SYSTEM VOLUME (gallons): 3.29		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/19/2022 12:35:00 PM	PURGING END TIME: 10/19/2022 12:58:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:38 PM	0.3	0.1	16.67	16.5	6.18	18.43	256	1.25	2.98	Clear	None
12:43 PM	0.8	0.1	16.67	0.8	6.19	18.36	268	0.23	2.69	Clear	None
12:48 PM	1.3	0.1	16.68	-6.4	6.23	18.18	275	0.17	3.77	Clear	None
12:53 PM	1.8	0.1	16.68	-9.1	6.23	18.21	276	0.13	5.89	Clear	None
12:58 PM	2.3	0.1	16.68	-12.3	6.25	18.29	279	0.12	10.72	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-92</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field param meter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-93</b>	SAMPLE ID: W-93-2022-Q4	DATE: 10/6/2022 8:53:00 AM		
TOTAL WELL DEPTH (feet) (A): 35.35	WATER TABLE DEPTH (feet) (B): 10.40	LENGTH OF WATER COLUMN (feet) (A-B): 24.95		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 30.50 - 35.50 ft	CALCULATED SYSTEM VOLUME (gallons): 4.07		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/6/2022 8:09:00 AM	PURGING END TIME: 10/6/2022 8:52:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:12 AM	0.3	0.1	10.52	203.8	6.24	19.3	140	7.04	3.08	Clear	None
8:17 AM	0.8	0.1	10.55	237.1	5.98	19.14	142	1.61	1.52	Clear	None
8:22 AM	1.3	0.1	10.55	248.7	5.94	19.59	140	1.51	1.46	Clear	None
8:27 AM	1.8	0.1	10.55	260.4	5.88	20.08	140	1.41	1.58	Clear	None
8:32 AM	2.3	0.1	10.55	271.2	5.81	20.39	139	1.36	1.6	Clear	None
8:37 AM	2.8	0.1	10.55	279.1	5.77	20.68	139	1.33	1.62	Clear	None
8:42 AM	3.3	0.1	10.55	283.5	5.78	21.36	137	1.26	1.65	Clear	None
8:47 AM	3.8	0.1	10.55	287	5.78	21.52	137	1.23	1.66	Clear	None
8:52 AM	4.3	0.1	10.55	290.1	5.77	21.63	137	1.26	1.7	Clear	None
11:09 AM	0	0	10.77	266.5	7.27	21.93	180	6.56	6.19	Clear	None
11:14 AM	0.5	0.1	10.82	490.6	6.61	21.9	171	5.85	2.51	Clear	None
11:19 AM	1.5	0.2	10.8	524.3	6.39	21.97	166	5.18	2.52	Clear	None
11:24 AM	3	0.3	10.8	512.5	6.13	22.05	159	3.69	2.52	Clear	None
11:29 AM	5	0.4	10.82	503.1	6.04	22.1	156	3.39	8.52	Clear	None
11:34 AM	7.5	0.5	10.82	500.7	6.04	22.06	155	3.42	13.96	Clear	None
11:39 AM	10.5	0.6	10.82	506.2	6.04	21.69	154	3.39	18.37	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-93	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-94</b>	SAMPLE ID: W-94-2022-Q4	DATE: 10/20/2022 1:42:00 PM		
TOTAL WELL DEPTH (feet) (A): 31.96	WATER TABLE DEPTH (feet) (B): 10.89	LENGTH OF WATER COLUMN (feet) (A-B): 21.07		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 24.50 - 29.50 ft	CALCULATED SYSTEM VOLUME (gallons): 3.44		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/20/2022 1:19:00 PM	PURGING END TIME: 10/20/2022 1:41:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:21 PM	0.2	0.1	10.96	68.3	6.25	18.05	149	6.41	1.64	Clear	None
1:26 PM	0.7	0.1	10.95	23.6	6.27	18.23	139	0.39	1.33	Clear	None
1:31 PM	1.2	0.1	10.95	16.3	6.3	18.29	139	0.25	1.38	Clear	None
1:36 PM	1.7	0.1	10.95	12.6	6.31	18.35	139	0.18	1.59	Clear	None
1:41 PM	2.2	0.1	10.95	10.4	6.32	18.16	139	0.13	1.32	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-94</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-95</b>	SAMPLE ID: W-95-2022-Q4	DATE: 10/20/2022 12:07:00 PM		
TOTAL WELL DEPTH (feet) (A): 36.22	WATER TABLE DEPTH (feet) (B): 9.52	LENGTH OF WATER COLUMN (feet) (A-B): 26.70		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 28.50 - 33.50 ft	CALCULATED SYSTEM VOLUME (gallons): 4.36		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/20/2022 11:31:00 AM	PURGING END TIME: 10/20/2022 12:06:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:31 AM	0	0.1	9.53	81.5	6.16	17.91	140	7.61	40.01	Clear	None
11:36 AM	0.5	0.1	9.53	-27.8	6.35	17.91	249	0.38	32.62	Clear	None
11:41 AM	1	0.1	9.53	-34.4	6.37	17.86	247	0.37	34.82	Clear	None
11:46 AM	1.5	0.1	9.53	-36.7	6.39	17.84	247	0.28	24.45	Clear	None
11:51 AM	2	0.1	9.53	-38	6.41	17.76	247	0.19	20.51	Clear	None
11:56 AM	2.5	0.1	9.53	-40.7	6.42	17.83	245	0.22	14.63	Clear	None
12:01 PM	3	0.1	9.53	-41.6	6.42	17.73	245	0.17	15.53	Clear	None
12:06 PM	3.5	0.1	9.53	-41	6.42	17.75	245	0.14	10.75	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-95</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-96</b>	SAMPLE ID: W-96-2022-Q4	DATE: 10/19/2022 12:49:00 PM		
TOTAL WELL DEPTH (feet) (A): 32.80	WATER TABLE DEPTH (feet) (B): 10.11	LENGTH OF WATER COLUMN (feet) (A-B): 22.69		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 25.00 - 30.00 ft	CALCULATED SYSTEM VOLUME (gallons): 3.70		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/19/2022 12:04:00 PM	PURGING END TIME: 10/19/2022 12:46:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:06 PM	0	0	10.12	8.3	6.11	20.91	0	3.58	4.63	Clear	None
12:11 PM	0.7	0.14	10.12	17.9	6.01	19.47	214	0.61	1.92	Clear	None
12:16 PM	1.4	0.14	10.12	20.3	5.99	19.33	207	0.32	10.96	Clear	None
12:21 PM	2.1	0.14	10.12	22.4	5.97	19.44	199	0.27	28.42	Clear	None
12:26 PM	2.8	0.14	10.12	23.6	5.94	19.33	236	0.17	34.02	Clear	None
12:31 PM	3.5	0.14	10.12	21.4	5.98	19.36	236	0.15	20.82	Clear	None
12:36 PM	4.2	0.14	10.12	22.2	5.97	19.35	227	0.15	22.35	Clear	None
12:42 PM	4.9	0.12	10.12	27.6	5.93	19.39	234	0.31	87.66	Clear	None
12:46 PM	5.6	0.18	10.12	23.6	5.99	19.83	234	0.26	19.08	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-96</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-97</b>	SAMPLE ID: W-97-2022-Q4	DATE: 10/20/2022 11:41:00 AM		
TOTAL WELL DEPTH (feet) (A): 21.92	WATER TABLE DEPTH (feet) (B): 6.39	LENGTH OF WATER COLUMN (feet) (A-B): 15.53		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 14.00 - 19.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.53		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/20/2022 11:12:00 AM	PURGING END TIME: 10/20/2022 11:39:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC. COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:14 AM	0	0	6.39	108.2	5.55	22.12	153	3.24	2.6	Clear	None
11:19 AM	0.8	0.16	6.39	182.5	5.4	18.62	185	0.48	1.1	Clear	None
11:24 AM	1.6	0.16	6.39	181.5	5.56	18.42	189	0.44	1.21	Clear	None
11:29 AM	2.4	0.16	6.39	179.1	5.61	18.48	189	0.27	1.99	Clear	None
11:34 AM	3.2	0.16	6.39	183	5.62	18.38	189	0.22	3.53	Clear	None
11:39 AM	4	0.16	6.39	183	5.63	18.37	187	0.17	9.9	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-97	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-98</b>	SAMPLE ID: W-98-2022-Q4	DATE: 10/18/2022 12:47:00 PM		
TOTAL WELL DEPTH (feet) (A): 29.95	WATER TABLE DEPTH (feet) (B): 24.76	LENGTH OF WATER COLUMN (feet) (A-B): 5.19		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 17.00 - 27.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.85		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/18/2022 12:15:00 PM	PURGING END TIME: 10/18/2022 12:45:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:20 PM	0	0	24.84	261	5.14	18.14	148	2.97	1.51	Clear	None
12:25 PM	0.5	0.1	24.9	267.6	5.13	18.21	144	2.01	2.39	Clear	None
12:30 PM	1	0.1	24.92	269.3	5.21	18.28	146	1.46	1.02	Clear	None
12:35 PM	1.6	0.12	24.92	271.1	5.16	18.33	146	1.31	1.02	Clear	None
12:40 PM	2.2	0.12	24.93	273.9	5.17	18.37	146	1.19	0.78	Clear	None
12:45 PM	2.8	0.12	24.93	271.6	5.18	18.26	147	1.16	0.73	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-98</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-99</b>	SAMPLE ID: W-99-2022-Q4	DATE: 10/14/2022 9:28:00 AM		
TOTAL WELL DEPTH (feet) (A): 23.90	WATER TABLE DEPTH (feet) (B): 12.41	LENGTH OF WATER COLUMN (feet) (A-B): 11.49		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 16.00 - 21.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.88		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/14/2022 8:49:00 AM	PURGING END TIME: 10/14/2022 9:27:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:52 AM	0.36	0.12	12.96	35.2	6.83	21.48	669	0.82	1.62	Clear	None
8:57 AM	0.86	0.1	13.27	41.8	6.83	21.55	668	0.39	1.7	Clear	None
9:02 AM	1.36	0.1	13.36	43.9	6.84	21.6	668	0.28	2.48	Clear	None
9:07 AM	1.86	0.1	13.42	32.7	6.86	21.53	664	0.28	1.84	Clear	None
9:12 AM	2.36	0.1	13.46	15.2	6.87	21.57	662	0.27	1.74	Clear	None
9:17 AM	2.86	0.1	13.49	6.2	6.88	21.67	662	0.18	1.67	Clear	None
9:22 AM	3.36	0.1	13.49	1.8	6.88	21.61	659	0.21	1.74	Clear	None
9:27 AM	3.86	0.1	13.5	0.6	6.88	21.61	658	0.14	1.7	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-99</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-100</b>	SAMPLE ID: W-100-2022-Q4	DATE: 10/14/2022 8:29:00 AM		
TOTAL WELL DEPTH (feet) (A): 15.11	WATER TABLE DEPTH (feet) (B): 10.78	LENGTH OF WATER COLUMN (feet) (A-B): 4.33		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 7.00 - 12.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.71		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/14/2022 7:42:00 AM	PURGING END TIME: 10/14/2022 8:28:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
7:42 AM	0	0.12	11.02	89.2	7.03	18.66	536	4.36	1.59	Clear	None
7:47 AM	0.6	0.12	11.13	96.4	6.86	19.88	540	0.42	2.25	Clear	None
7:52 AM	1.2	0.12	11.18	87.3	6.83	21.21	562	0.56	11.59	Clear	None
7:58 AM	1.92	0.12	11.18	65.3	6.74	21.91	575	0.47	7.72	Clear	None
8:03 AM	2.52	0.12	11.18	49.8	6.68	22.05	590	0.39	4.65	Clear	None
8:08 AM	3.12	0.12	11.21	47	6.64	22.17	590	0.31	3.97	Clear	None
8:13 AM	3.72	0.12	11.22	38.7	6.63	22.37	589	0.33	4.16	Clear	None
8:18 AM	4.32	0.12	11.21	33.2	6.63	22.46	591	0.31	3.71	Clear	None
8:23 AM	4.92	0.12	11.23	28.3	6.63	22.58	591	0.36	2.64	Clear	None
8:28 AM	5.52	0.12	11.23	25.9	6.63	22.54	586	0.35	2.43	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-100</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-102</b>		SAMPLE ID: W-102-2022-Q4	DATE: 10/10/2022 11:40:00 AM	
TOTAL WELL DEPTH (feet) (A): 33.67		WATER TABLE DEPTH (feet) (B): 11.18	LENGTH OF WATER COLUMN (feet) (A-B): 22.49	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 28.50 - 33.50 ft	CALCULATED SYSTEM VOLUME (gallons): 3.67	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/10/2022 10:35:00 AM	PURGING END TIME: 10/10/2022 11:37:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC. COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:37 AM	0	0	11.38	135.6	6.79	21.96	1505	4.18	1.39	Clear	None
10:42 AM	0.8	0.16	11.47	135	6.85	22.48	1649	0.41	1.24	Clear	None
10:47 AM	1.6	0.16	11.49	134.9	6.74	22.55	1505	0.27	1.19	Clear	None
10:52 AM	2.4	0.16	11.49	131.5	6.7	22.62	1399	0.24	1.49	Clear	None
10:57 AM	3.2	0.16	11.49	131	6.66	22.6	1369	0.21	1.15	Clear	None
11:02 AM	4	0.16	11.49	129.1	6.63	22.69	1293	0.19	1.2	Clear	None
11:07 AM	4.8	0.16	11.49	127.6	6.63	22.76	1209	0.19	1.24	Clear	None
11:12 AM	5.6	0.16	11.49	128.3	6.61	22.74	1179	0.19	1.23	Clear	None
11:17 AM	6.4	0.16	11.49	129	6.56	22.73	1087	0.2	1.84	Clear	None
11:22 AM	7.2	0.16	11.49	129.9	6.58	22.71	1141	0.17	1.29	Clear	None
11:27 AM	8	0.16	11.49	131.1	6.56	22.74	1086	0.17	1.49	Clear	None
11:32 AM	8.8	0.16	11.49	133	6.54	22.87	1098	0.16	1.7	Clear	None
11:37 AM	9.6	0.16	11.49	132.8	6.59	22.84	1128	0.19	1.92	Clear	None
12:20 PM	0	0	11.27	214.3	6.82	20.38	1584	6.4	5.57	Clear	None
12:25 PM	0.5	0.1	11.31	205.6	7.06	21.04	1731	0.53	4.45	Clear	None
12:30 PM	1.5	0.2	11.32	199.3	7.05	21.07	1651	0.35	1.98	Clear	None
12:35 PM	3	0.3	11.33	192.7	7.05	21.33	1627	0.25	1.61	Clear	None
12:40 PM	5	0.4	11.33	188.7	7.02	21.48	1470	0.22	1.48	Clear	None
12:45 PM	7.5	0.5	11.33	184.8	6.98	21.52	1356	0.17	3.07	Clear	None
12:50 PM	10.5	0.6	11.33	181.2	6.95	21.67	1258	0.16	1.5	Clear	None
12:55 PM	14	0.7	11.33	177.5	6.95	21.52	1203	0.16	1.51	Clear	None
1:00 PM	18	0.8	11.33	174	6.97	21.64	1193	0.14	2.19	Clear	None
1:05 PM	22.5	0.9	11.33	171.1	6.96	21.55	1157	0.17	1.44	Clear	None
1:10 PM	27.5	1	11.33	167.3	6.98	21.63	1107	0.13	1.43	Clear	None

## GROUNDWATER SAMPLING LOG

1:15 PM	33	1.1	11.33	164.3	7.02	21.49	1186	0.13	1.63	Clear	None
1:20 PM	39	1.2	11.33	161.2	7.03	21.66	1128	0.13	1.29	Clear	None

SAMPLING DATA					
<b>WELL NO: W-102</b>		SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:
TUBING MATERIAL: Teflon		PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134			REMARKS:		
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: <b>pH:</b> + 1.0 units <b>Temperature:</b> + 3% <b>Specific Conductance:</b> + 3% <b>Dissolved Oxygen:</b> optionally, + 0.2 mg/L or + 10% (whichever is greater) <b>ORP:</b> + 10 mV <b>Turbidity:</b> all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-103</b>	SAMPLE ID: W-103-2022-Q4	DATE: 10/17/2022 1:32:00 PM		
TOTAL WELL DEPTH (feet) (A): 41.87	WATER TABLE DEPTH (feet) (B): 19.18	LENGTH OF WATER COLUMN (feet) (A-B): 22.69		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 34.50 - 39.50 ft	CALCULATED SYSTEM VOLUME (gallons): 3.70		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/17/2022 1:09:00 PM	PURGING END TIME: 10/17/2022 1:31:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:11 PM	0.24	0.12	19.24	286.5	5.94	21	169	6.59	2.15	Clear	None
1:16 PM	0.84	0.12	19.25	304.1	5.83	19.61	169	1.8	1.73	Clear	None
1:21 PM	1.44	0.12	19.26	307.3	5.89	19.55	177	1.25	1.52	Clear	None
1:26 PM	2.04	0.12	19.25	311.2	5.88	19.6	176	1.17	1.33	Clear	None
1:31 PM	2.64	0.12	19.25	313.1	5.88	19.57	174	1.17	1.34	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-103</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parammeter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030	REMARKS:				
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-104</b>	SAMPLE ID: W-104-2022-Q4	DATE: 10/20/2022 9:49:00 AM		
TOTAL WELL DEPTH (feet) (A): 20.38	WATER TABLE DEPTH (feet) (B): 8.17	LENGTH OF WATER COLUMN (feet) (A-B): 12.21		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 7.50 - 17.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.99		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/20/2022 9:10:00 AM	PURGING END TIME: 10/20/2022 9:47:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:12 AM	0	0	8.17	169.3	6.06	14.28	190	5.44	9.7	Clear	None
9:17 AM	0.9	0.18	8.17	222.3	5.53	18.18	242	0.79	1.63	Clear	None
9:22 AM	1.7	0.16	8.17	233.6	5.47	18.36	233	0.35	1.13	Clear	None
9:27 AM	2.5	0.16	8.17	239.7	5.43	18.56	224	0.34	1.17	Clear	None
9:32 AM	3.3	0.16	8.17	244.5	5.4	18.67	216	0.35	0.83	Clear	None
9:37 AM	4.1	0.16	8.17	250.3	5.35	18.72	213	0.25	0.94	Clear	None
9:42 AM	4.9	0.16	8.17	254.6	5.34	18.81	210	0.26	1.03	Clear	None
9:47 AM	5.7	0.16	8.17	258.7	5.31	18.96	209	0.39	0.97	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-104</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE: W-104-2022-Q4-Dup	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-105</b>	SAMPLE ID: W-105-2022-Q4	DATE: 10/20/2022 10:53:00 AM		
TOTAL WELL DEPTH (feet) (A): 26.96	WATER TABLE DEPTH (feet) (B): 11.49	LENGTH OF WATER COLUMN (feet) (A-B): 15.47		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 14.00 - 24.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.52		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/20/2022 10:32:00 AM	PURGING END TIME: 10/20/2022 10:52:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:32 AM	0	0.1	11.62	4.5	6.39	16.9	333	9.31	9.99	Clear	None
10:37 AM	0.5	0.1	11.65	-55.2	6.5	18.09	332	0.4	3.78	Clear	None
10:42 AM	1	0.1	11.65	-57.2	6.46	18.26	327	0.32	3.21	Clear	None
10:47 AM	1.5	0.1	11.65	-63.3	6.48	18.38	332	0.28	3.13	Clear	None
10:52 AM	2	0.1	11.65	-65	6.49	18.45	331	0.21	1.57	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-105</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-106</b>	SAMPLE ID: W-106-2022-Q4	DATE: 10/14/2022 12:54:00 PM		
TOTAL WELL DEPTH (feet) (A): 32.65	WATER TABLE DEPTH (feet) (B): 11.85	LENGTH OF WATER COLUMN (feet) (A-B): 20.80		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 24.50 - 29.50 ft	CALCULATED SYSTEM VOLUME (gallons): 3.39		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/14/2022 12:26:00 PM	PURGING END TIME: 10/14/2022 12:52:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:27 PM	0.1	0.1	11.85	-26.2	6.21	21.01	386	6.25	2.72	Clear	None
12:32 PM	0.6	0.1	11.85	-29.5	6.25	19.4	387	0.42	7.74	Clear	None
12:37 PM	1.1	0.1	11.85	-30.7	6.27	19.11	388	0.28	27	Clear	None
12:42 PM	1.6	0.1	11.85	-31.7	6.3	19.24	388	0.11	3.5	Clear	None
12:47 PM	2.1	0.1	11.85	-30.7	6.31	19.41	388	0.1	4.45	Clear	None
12:52 PM	2.6	0.1	11.85	-21.8	6.3	19.48	389	0.19	5.21	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-106</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-107</b>	SAMPLE ID: W-107-2022-Q4	DATE: 10/21/2022 9:11:00 AM		
TOTAL WELL DEPTH (feet) (A): 37.22	WATER TABLE DEPTH (feet) (B): 8.58	LENGTH OF WATER COLUMN (feet) (A-B): 28.64		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 29.00 - 34.00 ft	CALCULATED SYSTEM VOLUME (gallons): 4.67		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/21/2022 8:48:00 AM	PURGING END TIME: 10/21/2022 9:10:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:50 AM	0.2	0.1	8.59	40	6.29	15.85	169	2.9	10.14	Clear	None
8:55 AM	0.7	0.1	8.59	11.5	6.18	16.86	168	0.3	1.73	Clear	None
9:00 AM	1.2	0.1	8.59	9.5	6.13	16.95	168	0.22	4.78	Clear	None
9:05 AM	1.7	0.1	8.59	7.9	6.11	17	168	0.21	2.08	Clear	None
9:10 AM	2.2	0.1	8.59	7.1	6.1	17	168	0.15	12.24	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-107</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE: W-107-2022-Q4-DUP	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-108</b>	SAMPLE ID: W-108-2022-Q4	DATE: 10/21/2022 11:47:00 AM		
TOTAL WELL DEPTH (feet) (A): 35.90	WATER TABLE DEPTH (feet) (B): 8.92	LENGTH OF WATER COLUMN (feet) (A-B): 26.98		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 27.00 - 32.00 ft	CALCULATED SYSTEM VOLUME (gallons): 4.40		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/21/2022 11:21:00 AM	PURGING END TIME: 10/21/2022 11:43:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:23 AM	0.2	0.1	8.93	30.7	6.39	19.86	187	3.67	16.78	Clear	None
11:28 AM	0.7	0.1	8.93	-18.2	6.51	19.06	188	0.39	3.17	Clear	None
11:33 AM	1.2	0.1	8.94	-29.7	6.59	18.93	187	0.38	1.81	Clear	None
11:38 AM	1.7	0.1	8.94	-34.8	6.64	18.77	187	0.25	1.57	Clear	None
11:43 AM	2.2	0.1	8.94	-36.1	6.65	18.68	187	0.18	2.08	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-108</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-109</b>	SAMPLE ID: W-109-2022-Q4	DATE: 10/20/2022 1:48:00 PM		
TOTAL WELL DEPTH (feet) (A): 35.00	WATER TABLE DEPTH (feet) (B): 9.14	LENGTH OF WATER COLUMN (feet) (A-B): 25.86		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 27.00 - 32.00 ft	CALCULATED SYSTEM VOLUME (gallons): 4.22		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/20/2022 1:14:00 PM	PURGING END TIME: 10/20/2022 1:46:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:16 PM	0	0	9.15	41.4	5.84	24.24	44	3.07	289.39	Clear	None
1:21 PM	0.8	0.16	9.15	28.2	5.67	19.37	113	0.56	112.21	Clear	None
1:26 PM	1.6	0.16	9.15	21.1	5.7	19.3	113	0.41	67.2	Clear	None
1:31 PM	2.4	0.16	9.15	15.4	5.74	19.13	113	0.29	35.28	Clear	None
1:36 PM	3.1	0.14	9.15	12	5.75	19.06	112	0.27	13.83	Clear	None
1:41 PM	3.8	0.14	9.15	7.8	5.78	18.92	113	0.3	16.76	Clear	None
1:46 PM	4.5	0.14	9.15	5.7	5.77	18.86	113	0.28	15.28	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-109</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-110</b>	SAMPLE ID: W-110-2022-Q4	DATE: 10/21/2022 10:55:00 AM		
TOTAL WELL DEPTH (feet) (A): 36.90	WATER TABLE DEPTH (feet) (B): 9.63	LENGTH OF WATER COLUMN (feet) (A-B): 27.27		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 29.00 - 34.00 ft	CALCULATED SYSTEM VOLUME (gallons): 4.45		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/21/2022 9:58:00 AM	PURGING END TIME: 10/21/2022 10:55:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:00 AM	0.2	0.1	9.64	151.9	5.41	15.89	34	6.83	19.93	Clear	None
10:05 AM	0.7	0.1	9.64	173.1	5.25	17.01	35	0.39	18.34	Clear	None
10:10 AM	1.2	0.1	9.64	174.4	5.24	17.35	38	0.3	7.22	Clear	None
10:15 AM	1.7	0.1	9.64	167.6	5.29	17.49	42	0.25	9.3	Clear	None
10:20 AM	2.2	0.1	9.65	161.6	5.3	17.66	45	0.16	5.39	Clear	None
10:25 AM	2.7	0.1	9.65	157.7	5.3	17.91	46	0.11	6.13	Clear	None
10:30 AM	3.2	0.1	9.65	153.8	5.33	18.07	49	0.11	4.97	Clear	None
10:35 AM	3.7	0.1	9.64	151.9	5.31	18.21	51	0.14	4.9	Clear	None
10:40 AM	4.2	0.1	9.64	150.5	5.32	18.33	50	0.12	3.72	Clear	None
10:45 AM	4.7	0.1	9.64	146.9	5.34	18.37	54	0.13	3.1	Clear	None
10:50 AM	5.2	0.1	9.64	145	5.34	18.41	55	0.07	2.45	Clear	None
10:55 AM	5.7	0.1	9.64	143	5.34	18.47	57	0.09	1.62	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-110	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-111</b>	SAMPLE ID: W-111-2022-Q4	DATE: 10/20/2022 12:50:00 PM		
TOTAL WELL DEPTH (feet) (A): 84.50	WATER TABLE DEPTH (feet) (B): 7.32	LENGTH OF WATER COLUMN (feet) (A-B): 77.18		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 76.00 - 81.00 ft	CALCULATED SYSTEM VOLUME (gallons): 12.60		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/20/2022 12:29:00 PM	PURGING END TIME: 10/20/2022 12:50:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:29 PM	0	0.1	7.35	147.3	5.3	17.88	29	7.07	3.33	Clear	None
12:35 PM	0.6	0.1	7.35	201.2	5.11	18.07	29	0.43	6.91	Clear	None
12:40 PM	1.1	0.1	7.35	210.3	5.06	18.11	29	0.38	3.72	Clear	None
12:45 PM	1.6	0.1	7.35	213.8	5.03	18.09	29	0.24	1.68	Clear	None
12:50 PM	2.1	0.1	7.35	215.8	5	18.03	29	0.25	1.41	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-111	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-112</b>	SAMPLE ID: W-112-2022-Q4	DATE: 10/21/2022 8:12:00 AM		
TOTAL WELL DEPTH (feet) (A): 36.96	WATER TABLE DEPTH (feet) (B): 9.12	LENGTH OF WATER COLUMN (feet) (A-B): 27.84		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 29.00 - 34.00 ft	CALCULATED SYSTEM VOLUME (gallons): 4.54		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/21/2022 7:48:00 AM	PURGING END TIME: 10/21/2022 8:12:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
7:51 AM	0.3	0.1	9.13	0.6	6.76	14.75	225	2.24	115.08	Cloudy	None
7:56 AM	0.8	0.1	9.13	-52.8	6.68	15.96	262	0.31	4.95	Clear	None
8:02 AM	1.4	0.1	9.13	-49.9	6.54	16.31	266	0.23	4.25	Clear	None
8:07 AM	1.9	0.1	9.13	-46.9	6.44	16.53	266	0.2	6.56	Clear	None
8:12 AM	2.4	0.1	9.13	-44.4	6.38	16.42	267	0.13	1.67	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-112	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-113</b>	SAMPLE ID: W-113-2022-Q4	DATE: 10/13/2022 9:55:00 AM		
TOTAL WELL DEPTH (feet) (A): 39.05	WATER TABLE DEPTH (feet) (B): 12.53	LENGTH OF WATER COLUMN (feet) (A-B): 26.52		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 31.00 - 36.00 ft	CALCULATED SYSTEM VOLUME (gallons): 4.33		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/13/2022 9:30:00 AM	PURGING END TIME: 10/13/2022 9:51:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:31 AM	0.1	0.1	12.81	272	6.31	21.12	131	6.4	62.52	Cloudy	None
9:36 AM	0.6	0.1	13.22	262.6	6.51	19.74	147	0.67	6.08	Clear	None
9:41 AM	1.1	0.1	13.36	254.3	6.53	20.03	145	0.48	4.42	Clear	None
9:47 AM	1.7	0.1	13.58	249.1	6.51	20.05	141	0.45	8.34	Clear	None
9:51 AM	2.1	0.1	13.65	245.3	6.5	19.97	138	0.41	16.09	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-113	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-114</b>	SAMPLE ID: W-114-2022-Q4	DATE: 10/13/2022 9:06:00 AM		
TOTAL WELL DEPTH (feet) (A): 23.55	WATER TABLE DEPTH (feet) (B): 11.86	LENGTH OF WATER COLUMN (feet) (A-B): 11.69		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 10.00 - 20.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.91		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/13/2022 8:13:00 AM	PURGING END TIME: 10/13/2022 9:01:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:15 AM	0.24	0.12	12.07	159.2	5.86	20.53	83	2.34	166.82	Cloudy	None
8:20 AM	0.84	0.12	12.14	209.6	5.8	20.73	80	1.86	31.48	Clear	None
8:26 AM	1.56	0.12	12.18	230.3	5.77	20.88	79	1.8	15.55	Clear	None
8:31 AM	2.16	0.12	12.22	246.3	5.7	21	76	1.86	15	Clear	None
8:36 AM	2.76	0.12	12.22	258.2	5.68	21.06	77	1.81	12.52	Clear	None
8:41 AM	3.36	0.12	12.22	262.7	5.74	21.11	78	1.83	20.21	Clear	None
8:46 AM	3.96	0.12	12.22	270.4	5.7	21.15	77	2.01	24.08	Clear	None
8:51 AM	4.56	0.12	12.24	273.6	5.72	21.15	77	1.96	24.93	Clear	None
8:56 AM	5.06	0.1	12.22	276.4	5.72	21.2	77	1.93	23.98	Clear	None
9:01 AM	5.56	0.1	12.22	279.1	5.74	21.2	77	1.93	24.22	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-114	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-115</b>	SAMPLE ID: W-115-2022-Q4	DATE: 10/12/2022 12:15:00 PM		
TOTAL WELL DEPTH (feet) (A): 48.00	WATER TABLE DEPTH (feet) (B): 20.33	LENGTH OF WATER COLUMN (feet) (A-B): 27.67		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 40.50 - 45.50 ft	CALCULATED SYSTEM VOLUME (gallons): 4.52		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/12/2022 11:52:00 AM	PURGING END TIME: 10/12/2022 12:15:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:54 AM	0.24	0.12	20.48	202.2	6.02	20.74	106	6.26	3.79	Clear	None
12:00 PM	0.96	0.12	20.5	238.5	5.8	19.14	110	4.25	9.23	Clear	None
12:05 PM	1.56	0.12	20.5	246.1	5.85	19	110	3.86	5.23	Clear	None
12:10 PM	2.16	0.12	20.5	250	5.85	18.93	109	3.91	8.08	Clear	None
12:15 PM	2.76	0.12	20.5	248.7	5.96	18.94	106	3.63	7.51	Clear	None

SAMPLING DATA					
<b>WELL NO:</b> W-115	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-116</b>	SAMPLE ID: W-116-2022-Q4	DATE: 10/12/2022 12:58:00 PM		
TOTAL WELL DEPTH (feet) (A): 23.20	WATER TABLE DEPTH (feet) (B): 19.89	LENGTH OF WATER COLUMN (feet) (A-B): 3.31		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 10.00 - 20.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.54		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/12/2022 12:35:00 PM	PURGING END TIME: 10/12/2022 12:57:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:37 PM	0.24	0.12	20.04	274.9	5.3	21.39	119	7.54	2.09	Clear	None
12:42 PM	0.84	0.12	20.24	305.2	5.29	19.89	121	6.26	1.66	Clear	None
12:47 PM	1.34	0.1	20.31	302.9	5.48	19.98	122	5.95	1.56	Clear	None
12:52 PM	1.84	0.1	20.3	298.4	5.58	20.12	123	5.48	1.53	Clear	None
12:57 PM	2.34	0.1	20.3	301.3	5.57	20.12	122	5.57	1.52	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-116	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-117</b>	SAMPLE ID: W-117-2022-Q4	DATE: 10/13/2022 12:23:00 PM		
TOTAL WELL DEPTH (feet) (A): 46.71	WATER TABLE DEPTH (feet) (B): 23.92	LENGTH OF WATER COLUMN (feet) (A-B): 22.79		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 39.00 - 44.00 ft	CALCULATED SYSTEM VOLUME (gallons): 3.72		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/13/2022 12:00:00 PM	PURGING END TIME: 10/13/2022 12:23:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:03 PM	0.3	0.1	23.95	287	6.18	20.34	104	5.12	2.32	Clear	None
12:08 PM	0.8	0.1	23.96	286.9	6.14	19.25	101	2.65	2.44	Clear	None
12:13 PM	1.3	0.1	23.96	286.4	6.13	19.17	98	3.18	2.19	Clear	None
12:18 PM	1.8	0.1	23.96	286.3	6.14	19.11	97	3.27	4.54	Clear	None
12:23 PM	2.3	0.1	23.96	287.1	6.12	19.15	95	3.53	3.41	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-117	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-118</b>	SAMPLE ID: W-118-2022-Q4	DATE: 10/13/2022 1:09:00 PM		
TOTAL WELL DEPTH (feet) (A): 32.45	WATER TABLE DEPTH (feet) (B): 22.23	LENGTH OF WATER COLUMN (feet) (A-B): 10.22		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 19.50 - 29.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.67		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/13/2022 12:46:00 PM	PURGING END TIME: 10/13/2022 1:08:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:48 PM	0.2	0.1	22.26	303.3	5.67	20.2	96	5.18	1.93	Clear	None
12:53 PM	0.7	0.1	22.26	305.3	5.69	19.07	96	1.34	1.44	Clear	None
12:58 PM	1.2	0.1	22.25	309.3	5.69	19.06	96	1.27	3.38	Clear	None
1:03 PM	1.7	0.1	23.25	310.2	5.71	19.06	96	1.23	1.65	Clear	None
1:08 PM	2.2	0.1	22.25	311.4	5.72	19.11	96	1.25	1.43	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-118	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-119</b>	SAMPLE ID: W-119-2022-Q4	DATE: 10/13/2022 10:56:00 AM		
TOTAL WELL DEPTH (feet) (A): 33.03	WATER TABLE DEPTH (feet) (B): 17.14	LENGTH OF WATER COLUMN (feet) (A-B): 15.89		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 25.00 - 30.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.59		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/13/2022 10:33:00 AM	PURGING END TIME: 10/13/2022 10:55:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:35 AM	0.2	0.1	17.16	286.1	5.62	20.55	85	5.11	1.9	Clear	None
10:40 AM	0.7	0.1	17.17	290.4	5.53	19.48	85	0.32	1.56	Clear	None
10:45 AM	1.2	0.1	17.17	288.5	5.6	19.46	86	0.2	2.01	Clear	None
10:50 AM	1.7	0.1	17.17	289.5	5.61	19.42	86	0.17	1.45	Clear	None
10:55 AM	2.2	0.1	17.17	290.2	5.62	19.33	86	0.14	1.57	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-119	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-120</b>		SAMPLE ID: W-120-2022-Q4	DATE: 10/13/2022 9:41:00 AM	
TOTAL WELL DEPTH (feet) (A): 36.88		WATER TABLE DEPTH (feet) (B): 15.15	LENGTH OF WATER COLUMN (feet) (A-B): 21.73	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 29.00 - 34.00 ft		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/13/2022 9:17:00 AM	PURGING END TIME: 10/13/2022 9:39:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. ( $\mu$ s/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:19 AM	0	0	15.29	169.1	6.22	21.89	155	3.96	8.74	Clear	None
9:24 AM	0.8	0.16	15.3	178.1	5.71	21.32	156	0.49	1.38	Clear	None
9:29 AM	1.6	0.16	15.3	186.8	5.63	21.31	152	0.42	1.91	Clear	None
9:34 AM	2.4	0.16	15.3	188.3	5.65	21.28	151	0.28	1.07	Clear	None
9:39 AM	3.2	0.16	15.3	192.6	5.65	21.25	150	0.31	1.1	Clear	None
9:18 AM	0	0	15.35	125.3	5.71	17.04	162	4.98	20.37	Clear	None
9:23 AM	0.7	0.14	15.38	121.2	5.81	19.2	200	1.01	1.54	Clear	None
9:28 AM	1.4	0.14	15.38	121.5	5.82	19.52	201	0.78	0.89	Clear	None
9:33 AM	2.1	0.14	15.38	121.2	5.76	19.72	188	0.52	1.06	Clear	None
9:38 AM	2.8	0.14	15.38	123	5.71	19.7	186	0.47	1.03	Clear	None
9:43 AM	3.5	0.14	15.38	121	5.69	19.67	180	0.4	1.03	Clear	None
9:48 AM	4.2	0.14	15.38	123	5.68	19.73	178	0.53	0.99	Clear	None
9:53 AM	4.9	0.14	15.38	125.4	5.64	19.87	175	0.55	0.99	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-120	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE: W-120-2022-Q4-Dup	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-121</b>	SAMPLE ID: W-121-2022-Q4	DATE: 10/13/2022 11:10:00 AM		
TOTAL WELL DEPTH (feet) (A): 25.26	WATER TABLE DEPTH (feet) (B): 15.21	LENGTH OF WATER COLUMN (feet) (A-B): 10.05		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 12.00 - 22.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.64		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/13/2022 10:16:00 AM	PURGING END TIME: 10/13/2022 11:08:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:18 AM	0	0	15.37	192.1	5.59	23.89	72	2.96	2.02	Clear	None
10:23 AM	0.7	0.14	15.43	212.8	4.91	22.38	78	0.52	1.97	Clear	None
10:28 AM	1.4	0.14	15.44	219.2	4.9	22.36	78	0.47	1.28	Clear	None
10:33 AM	2.1	0.14	15.45	234.8	4.95	22.34	78	0.36	1.29	Clear	None
10:38 AM	2.8	0.14	15.46	261.7	4.97	22.31	79	0.28	1.22	Clear	None
10:43 AM	3.5	0.14	15.46	282.4	4.91	22.28	79	0.22	1.26	Clear	None
10:48 AM	4.2	0.14	15.46	291.7	4.96	22.35	80	0.31	1.31	Clear	None
10:53 AM	4.9	0.14	15.46	306.2	4.93	22.35	80	0.33	1.25	Clear	None
10:58 AM	5.6	0.14	15.46	318.1	4.91	22.33	81	0.34	1.18	Clear	None
11:03 AM	6.3	0.14	15.46	317.3	4.97	22.31	83	0.28	1.25	Clear	None
11:08 AM	7	0.14	15.46	325.1	4.95	22.32	83	0.31	1.24	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-121	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-122</b>	SAMPLE ID: W-122-2022-Q4	DATE: 10/11/2022 9:45:00 AM		
TOTAL WELL DEPTH (feet) (A): 33.12	WATER TABLE DEPTH (feet) (B): 9.54	LENGTH OF WATER COLUMN (feet) (A-B): 23.58		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 25.00 - 30.00 ft	CALCULATED SYSTEM VOLUME (gallons): 3.85		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/11/2022 9:15:00 AM	PURGING END TIME: 10/11/2022 9:42:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:16 AM	0.12	0.12	9.8	103.4	6.25	22.69	56	5.33	16.16	Clear	None
9:22 AM	0.84	0.12	9.98	80.2	6.02	22.09	51	0.53	33.25	Clear	None
9:27 AM	1.34	0.1	9.96	77.8	6.05	22.35	49	0.5	7.37	Clear	None
9:32 AM	1.84	0.1	9.95	74.4	6.08	22.29	49	0.29	14.88	Clear	None
9:37 AM	2.34	0.1	9.96	71	6.13	22.37	49	0.37	17.41	Clear	None
9:42 AM	2.84	0.1	9.96	71.2	6.13	22.22	49	0.18	5.82	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-122	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO:</b> W-123	SAMPLE ID: W-123-2022-Q4	DATE: 10/4/2022 11:14:00 AM		
TOTAL WELL DEPTH (feet) (A): 34.65	WATER TABLE DEPTH (feet) (B): 14.62	LENGTH OF WATER COLUMN (feet) (A-B): 20.03		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 29.00 - 34.00 ft	CALCULATED SYSTEM VOLUME (gallons): 3.27		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/4/2022 10:39:00 AM	PURGING END TIME: 10/4/2022 11:10:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:40 AM	0.18	0.18	14.88	235.3	8.31	22.3	1634	5.63	1.94	Clear	None
10:45 AM	1.08	0.18	15	219.4	8.45	22.28	1679	0.37	1.81	Clear	None
10:50 AM	1.98	0.18	15	212.3	8.43	22.25	1683	0.25	2.1	Clear	None
10:55 AM	2.88	0.18	14.98	207.2	8.42	22.23	1680	0.19	5.44	Clear	None
11:00 AM	3.78	0.18	14.98	203.1	8.41	22.26	1677	0.17	21.45	Clear	None
11:05 AM	4.68	0.18	14.98	199.5	8.4	22.26	1668	0.18	17.49	Clear	None
11:10 AM	5.43	0.15	14.85	196.7	8.39	22	1677	0.2	2.3	Clear	None
10:13 AM	0	0	14.84	-57.5	7.91	20.54	1708	3.75	37.66	Clear	None
10:18 AM	0.5	0.1	14.91	-64.4	8.1	21.26	1712	0.41	13.8	Clear	None
10:23 AM	2	0.3	14.88	-64.6	8.13	21.27	1710	0.27	3.65	Clear	None
10:28 AM	4	0.4	14.87	-62.4	8.12	21.27	1707	0.24	4.07	Clear	None
10:33 AM	6.5	0.5	14.87	-59.6	8.12	21.3	1705	0.26	5.58	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-123	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-124</b>	SAMPLE ID: W-124-2022-Q4	DATE: 10/20/2022 10:46:00 AM		
TOTAL WELL DEPTH (feet) (A): 33.55	WATER TABLE DEPTH (feet) (B): 11.41	LENGTH OF WATER COLUMN (feet) (A-B): 22.14		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 26.00 - 31.00 ft	CALCULATED SYSTEM VOLUME (gallons): 3.61		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/20/2022 10:18:00 AM	PURGING END TIME: 10/20/2022 10:44:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:19 AM	0	0	11.44	64.7	5.72	26.85	46	2.85	2.17	Clear	None
10:24 AM	0.8	0.16	11.44	114.7	5.11	18.72	121	0.39	1.25	Clear	None
10:29 AM	1.6	0.16	11.44	106.7	5.13	18.69	123	0.23	1.26	Clear	None
10:34 AM	2.4	0.16	11.44	103.1	5.15	18.65	118	0.18	1.52	Clear	None
10:39 AM	3.2	0.16	11.44	96.8	5.23	18.64	120	0.16	1.78	Clear	None
10:44 AM	4	0.16	11.44	93.3	5.25	18.82	121	0.16	3.01	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-124	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-125</b>	SAMPLE ID: W-125-2022-Q4	DATE: 10/20/2022 10:12:00 AM		
TOTAL WELL DEPTH (feet) (A): 47.43	WATER TABLE DEPTH (feet) (B): 11.41	LENGTH OF WATER COLUMN (feet) (A-B): 36.02		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 40.00 - 45.00 ft	CALCULATED SYSTEM VOLUME (gallons): 5.88		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/20/2022 9:48:00 AM	PURGING END TIME: 10/20/2022 10:10:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:50 AM	0.2	0.1	11.42	36.7	6.04	16.26	289	3.62	117.94	Cloudy	None
9:55 AM	0.7	0.1	11.41	9.1	6.04	17.3	333	0.26	4.71	Clear	None
10:00 AM	1.2	0.1	11.42	5	6.07	17.5	331	0.17	4.47	Clear	None
10:05 AM	1.7	0.1	11.42	1.3	6.09	17.52	332	0.14	11.52	Clear	None
10:10 AM	2.2	0.1	11.42	-1.5	6.12	17.59	332	0.13	4.16	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-125	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 107 # 30030		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-126</b>	SAMPLE ID: W-126-2022-Q4	DATE: 10/19/2022 1:36:00 PM		
TOTAL WELL DEPTH (feet) (A): 46.52	WATER TABLE DEPTH (feet) (B): 9.56	LENGTH OF WATER COLUMN (feet) (A-B): 36.96		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 37.50 - 42.50 ft	CALCULATED SYSTEM VOLUME (gallons): 6.03		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 10/19/2022 1:12:00 PM	PURGING END TIME: 10/19/2022 1:33:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:13 PM	0	0	9.58	-63.4	6.45	31.06	0	1.77	46.7	Clear	None
1:18 PM	0.7	0.14	9.58	-2.3	5.9	20.31	277	0.41	14.7	Clear	None
1:23 PM	1.5	0.16	9.58	-9.9	5.99	20.13	276	0.23	13.3	Clear	None
1:28 PM	2.3	0.16	9.58	-12.9	6.01	20.05	273	0.2	26.03	Clear	None
1:33 PM	3.1	0.16	9.58	-16.3	6.05	19.91	278	0.22	15.18	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-126	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-6</b>		SAMPLE ID: W-6-2022-Q4-RS	DATE: 1/5/2023 9:30:00 AM	
TOTAL WELL DEPTH (feet) (A): 27.35		WATER TABLE DEPTH (feet) (B): 11.03	LENGTH OF WATER COLUMN (feet) (A-B): 16.32	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 23.00 - 28.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.65	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 1/5/2023 8:37:00 AM	PURGING END TIME: 1/5/2023 9:29:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC. COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:39 AM	0	0	11.3	92	5.92	16.36	671	6.62	6.2		
8:44 AM	0.7	0.14	11.74	104	5.83	20.17	746	2.36	0.78		
8:49 AM	1.2	0.1	11.9	104.8	5.85	20	957	1.62	0.93		
8:54 AM	1.7	0.1	11.99	98.3	5.98	20.01	1715	0.8	0.98		
8:59 AM	2.2	0.1	12.01	87.7	6.02	20.18	1903	0.68	1.76		
9:04 AM	2.7	0.1	12.05	81.6	6.03	20.49	1988	0.71	5.18		
9:09 AM	3.2	0.1	12.08	76.3	6.08	20.57	2088	0.42	8.74		
9:14 AM	3.7	0.1	12.08	69.6	6.18	20.48	2238	0.34	15.81		
9:19 AM	4.2	0.1	12.08	63.7	6.28	20.37	2358	0.4	9		
9:24 AM	4.7	0.1	12.08	61.2	6.31	20.68	2408	0.28	12.39		
9:29 AM	5.2	0.1	12.08	58.9	6.31	20.71	2411	0.36	12.95		

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-6</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE: W-6-2022-Q4-RS-DUP	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
1	250 ml	Poly	None	Fluoride	Pace

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-7A</b>	SAMPLE ID: W-7A-2022-Q4-RS	DATE: 1/3/2023 11:35:00 AM		
TOTAL WELL DEPTH (feet) (A): 21.10	WATER TABLE DEPTH (feet) (B): 12.13	LENGTH OF WATER COLUMN (feet) (A-B): 8.97		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 13.00 - 18.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.46		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 1/3/2023 11:12:00 AM	PURGING END TIME: 1/3/2023 11:35:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. ( $\mu$ s/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:15 AM	0	0	12.63	59.8	6.84	20.68	2860	0.72	1.5		
11:20 AM	0.8	0.16	12.68	55.5	6.91	20.36	2880	0.38	1.45		
11:25 AM	1.5	0.14	12.71	52.4	6.92	20.35	2883	0.28	1.37		
11:30 AM	2.2	0.14	12.73	49.3	6.91	20.46	2887	0.22	1.35		
11:35 AM	2.9	0.14	12.75	46	6.92	20.48	2886	0.18	1.57		

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
WELL NO: W-7A	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
1	250 ml	Poly	None	Fluoride	Pace

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-10</b>	SAMPLE ID: W-10-2022-Q4-RS	DATE: 1/3/2023 10:54:00 AM		
TOTAL WELL DEPTH (feet) (A): 22.23	WATER TABLE DEPTH (feet) (B): 16.26	LENGTH OF WATER COLUMN (feet) (A-B): 5.97		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 17.50 - 22.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.97		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 1/3/2023 10:21:00 AM	PURGING END TIME: 1/3/2023 10:54:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:24 AM	0	0	17.03	83.9	5.6	20.95	433	0.64	1.87		
10:29 AM	0.8	0.16	17.13	106.1	5.52	20.58	430	0.52	1.6		
10:34 AM	1.5	0.14	17.08	108.7	5.61	20.57	433	0.38	1.11		
10:39 AM	2.2	0.14	17.08	108.7	5.66	20.74	479	0.83	1.23		
10:44 AM	2.9	0.14	17.08	107.9	5.66	20.77	487	0.21	1.14		
10:49 AM	3.6	0.14	17.08	106.5	5.65	20.89	493	0.21	1.2		
10:54 AM	4.3	0.14	17.08	105.1	5.65	20.96	493	0.23	1.23		

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-10	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
1	250 ml	Poly	None	Fluoride	Pace

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-13R</b>	SAMPLE ID: W-13R-2022-Q4-RS	DATE: 1/3/2023 10:00:00 AM		
TOTAL WELL DEPTH (feet) (A): 20.07	WATER TABLE DEPTH (feet) (B): 12.96	LENGTH OF WATER COLUMN (feet) (A-B): 7.11		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 15.00 - 20.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.16		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 1/3/2023 9:23:00 AM	PURGING END TIME: 1/3/2023 9:56:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:26 AM	0	0	13.05	67.5	6.93	19.4	657	4.63	211.12	Cloudy	None
9:31 AM	0.5	0.1	13.07	98.9	6.46	20.84	679	0.27	99.54	Cloudy	None
9:36 AM	1.5	0.2	13.07	99.9	6.49	20.96	727	0.17	57.67	Clear	None
9:41 AM	3	0.3	13.07	105.8	6.46	21.01	730	0.16	32.64	Clear	None
9:46 AM	5	0.4	13.07	105.1	6.42	21.12	729	0.16	18.59	Clear	None
9:51 AM	7.5	0.5	13.07	112.9	6.42	21.26	739	0.11	15.44	Clear	None
9:56 AM	10.5	0.6	13.07	114	6.41	21.09	738	0.12	16.25	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-13R	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 102 # 25743		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
1	250 ml	Poly	None	Fluoride	Pace

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-14</b>	SAMPLE ID: W-14-2022-Q4-RS	DATE: 1/5/2023 2:32:00 PM		
TOTAL WELL DEPTH (feet) (A): 30.46	WATER TABLE DEPTH (feet) (B): 17.03	LENGTH OF WATER COLUMN (feet) (A-B): 13.43		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 24.00 - 29.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.19		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 1/5/2023 2:08:00 PM	PURGING END TIME: 1/5/2023 2:31:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
2:11 PM	0	0	17.03	22.1	6.71	25.44	37	2.23	44.31		
2:16 PM	0.6	0.12	17.03	2.4	6.27	20.2	626	0.66	11.49		
2:21 PM	1.2	0.12	17.03	-12	6.32	20.09	615	0.36	11.09		
2:26 PM	1.8	0.12	17.03	-7.3	6.34	19.89	608	0.36	5.51		
2:31 PM	2.4	0.12	17.03	-5.6	6.35	19.85	601	0.31	5.53		

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-14	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
1	250 ml	Poly	None	Fluoride	Pace

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-17</b>	SAMPLE ID: W-17-2022-Q4-RS	DATE: 1/5/2023 11:40:00 AM		
TOTAL WELL DEPTH (feet) (A): 29.62	WATER TABLE DEPTH (feet) (B): 14.21	LENGTH OF WATER COLUMN (feet) (A-B): 15.41		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 23.00 - 28.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.51		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 1/5/2023 11:13:00 AM	PURGING END TIME: 1/5/2023 11:40:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. ( $\mu$ s/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:15 AM	0	0	14.34	90	6.02	23	0	3.66	0.49		
11:20 AM	0.7	0.14	14.37	85.9	6.05	21.08	480	0.64	1.32		
11:25 AM	1.4	0.14	14.42	67.8	6.46	21.13	617	0.38	1.39		
11:30 AM	2.1	0.14	14.43	57.9	6.48	21.2	570	0.3	1.36		
11:35 AM	2.8	0.14	14.44	53.5	6.42	21.29	567	0.26	1.77		
11:40 AM	3.5	0.14	14.45	51.3	6.35	21.24	554	0.25	3.67		

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
WELL NO: W-17	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
1	250 ml	Poly	None	Fluoride	Pace

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-18R</b>		SAMPLE ID: W-18R-2022-Q4-RS	DATE: 1/5/2023 12:58:00 PM	
TOTAL WELL DEPTH (feet) (A): 27.37		WATER TABLE DEPTH (feet) (B): 11.85	LENGTH OF WATER COLUMN (feet) (A-B): 15.52	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 22.50 - 27.50 ft		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 1/5/2023 11:55:00 AM	PURGING END TIME: 1/5/2023 12:57:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. ( $\mu$ s/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:57 AM	0	0	12.35	81.8	6.69	24.97	0	4.76	1.93		
12:02 PM	0.6	0.12	12.92	60.5	7.01	21.42	2760	1.11	1.73		
12:07 PM	1.2	0.12	13.33	58	7.04	21.29	2771	1.08	1.58		
12:12 PM	1.8	0.12	13.65	96	7.13	21.32	2635	1.81	2.04		
12:17 PM	2.4	0.12	13.86	147.9	7.24	21.33	2522	2.97	5.74		
12:22 PM	3	0.12	14	157.5	7.29	21.32	2732	2.87	3.38		
12:27 PM	3.6	0.12	14.22	161	7.3	21.33	2890	2.62	2.73		
12:32 PM	4.2	0.12	14.2	157.9	7.31	21.22	3058	2.31	2.01		
12:37 PM	4.8	0.12	14.24	152.7	7.32	21.53	3196	2.58	2.45		
12:42 PM	5.4	0.12	14.26	145.6	7.33	21.69	3289	1.85	3.21		
12:47 PM	6	0.12	14.3	139.8	7.32	21.74	3406	2.03	3.92		
12:52 PM	6.6	0.12	14.33	133.6	7.34	21.88	3487	1.99	5.68		
12:57 PM	7.2	0.12	14.35	127.3	7.35	21.92	3605	1.95	6.18		

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-18R	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
1	250 ml	Poly	None	Fluoride	Pace

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-22</b>	SAMPLE ID: W-22-2022-Q4-RS	DATE: 1/5/2023 10:27:00 AM		
TOTAL WELL DEPTH (feet) (A): 14.52	WATER TABLE DEPTH (feet) (B): 10.84	LENGTH OF WATER COLUMN (feet) (A-B): 3.68		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 10.00 - 15.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.60		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 1/5/2023 9:44:00 AM	PURGING END TIME: 1/5/2023 10:27:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:52 AM	0	0	11	124.5	5.62	21.14	5	3.99	8.22		
9:57 AM	0.5	0.1	11.01	127.8	5.31	19.99	647	0.51	7.8		
10:02 AM	1.1	0.12	11.02	131	5.34	19.89	629	0.37	2.95		
10:07 AM	1.7	0.12	11.03	129.7	5.32	19.85	619	0.32	2.26		
10:12 AM	2.3	0.12	11.04	130.5	5.32	19.82	642	0.27	1.97		
10:17 AM	2.9	0.12	11.04	127.3	5.4	19.95	735	0.28	1.46		
10:22 AM	3.5	0.12	11.04	121.8	5.44	20.06	754	0.24	1.31		
10:27 AM	4.1	0.12	11.04	123.8	5.39	20.2	747	0.25	1.35		

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-22	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
1	250 ml	Poly	None	Fluoride	Pace

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-28</b>	SAMPLE ID: W-28-2022-Q4-RS	DATE: 1/5/2023 10:25:00 AM		
TOTAL WELL DEPTH (feet) (A): 17.25	WATER TABLE DEPTH (feet) (B): 12.69	LENGTH OF WATER COLUMN (feet) (A-B): 4.56		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 10.00 - 15.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.74		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 1/5/2023 9:18:00 AM	PURGING END TIME: 1/5/2023 10:21:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC. COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:21 AM	0	0	12.75	221.7	6.66	17.97	640	7.18	1.87	Clear	None
9:26 AM	0.5	0.1	12.76	249.4	6.79	19.28	641	4.69	0.96	Clear	None
9:31 AM	1.5	0.2	12.76	265.2	6.81	19.5	644	4.53	1.04	Clear	None
9:36 AM	3	0.3	12.76	284.2	6.81	19.58	643	4.49	0.94	Clear	None
9:41 AM	5	0.4	12.76	300.5	6.82	19.67	643	4.45	0.91	Clear	None
9:46 AM	7.5	0.5	12.76	315.7	6.82	19.77	643	4.36	0.93	Clear	None
9:51 AM	10.5	0.6	12.76	325.8	6.81	19.87	644	4.31	0.85	Clear	None
9:56 AM	14	0.7	12.76	336.9	6.8	19.93	645	4.26	1.03	Clear	None
10:01 AM	18	0.8	12.77	348.4	6.8	20.01	645	4.27	1.07	Clear	None
10:06 AM	22.5	0.9	12.77	356.6	6.77	19.95	644	4.3	1.06	Clear	None
10:11 AM	27.5	1	12.77	365.3	6.77	19.99	645	4.14	1.03	Clear	None
10:16 AM	33	1.1	12.77	373.1	6.76	20.02	645	4.13	1.04	Clear	None
10:21 AM	39	1.2	12.77	376.9	6.75	20.07	644	4.05	0.94	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-28	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 101 # 17568		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
1	250 ml	Poly	None	Fluoride	Pace

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-29</b>	SAMPLE ID: W-29-2022-Q4-RS	DATE: 1/5/2023 11:53:00 AM		
TOTAL WELL DEPTH (feet) (A): 15.60	WATER TABLE DEPTH (feet) (B): 12.52	LENGTH OF WATER COLUMN (feet) (A-B): 3.08		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 9.00 - 14.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.50		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 1/5/2023 11:30:00 AM	PURGING END TIME: 1/5/2023 11:52:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:32 AM	0	0	12.53	232.4	6.55	20.03	445	2	1.31	Clear	None
11:37 AM	0.5	0.1	12.54	213.7	6.56	20.16	442	0.51	1.28	Clear	None
11:42 AM	1.5	0.2	12.54	205.1	6.54	20.14	424	0.34	1.29	Clear	None
11:47 AM	3	0.3	12.54	199.5	6.58	20.23	420	0.32	1.3	Clear	None
11:52 AM	4.5	0.3	12.54	198.1	6.57	20.27	409	0.29	1.36	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-29	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 101 # 17568		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
1	250 ml	Poly	None	Fluoride	Pace

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-30</b>	SAMPLE ID: W-30-2022-Q4-RS	DATE: 1/5/2023 2:00:00 PM		
TOTAL WELL DEPTH (feet) (A): 16.77	WATER TABLE DEPTH (feet) (B): 12.68	LENGTH OF WATER COLUMN (feet) (A-B): 4.09		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 10.00 - 15.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.67		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 1/5/2023 1:37:00 PM	PURGING END TIME: 1/5/2023 1:59:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:39 PM	0	0	12.7	180.2	6.77	21.89	1081	6.88	6.79	Clear	None
1:44 PM	0.5	0.1	12.7	186.8	6.59	20.88	1104	0.68	5.8	Clear	None
1:49 PM	1.5	0.2	12.7	186.1	6.61	20.78	1105	0.55	4.16	Clear	None
1:54 PM	3	0.3	12.7	185.7	6.63	20.66	1101	0.47	5.48	Clear	None
1:59 PM	5	0.4	12.7	186.5	6.64	20.66	1091	0.56	1.72	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-30	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 101 # 17568		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
1	250 ml	Poly	None	Fluoride	Pace

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO:</b> W-32	SAMPLE ID: W-32-2022-Q4-RS	DATE: 1/3/2023 9:59:00 AM		
TOTAL WELL DEPTH (feet) (A): 23.91	WATER TABLE DEPTH (feet) (B): 19.49	LENGTH OF WATER COLUMN (feet) (A-B): 4.42		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 17.00 - 22.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.72		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 1/3/2023 9:31:00 AM	PURGING END TIME: 1/3/2023 9:59:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:34 AM	0	0	19.62	8.7	6.8	21.18	2038	4.19	1.33		
9:39 AM	0.8	0.16	19.68	20.1	6.76	20.6	1580	0.76	1.16		
9:44 AM	1.6	0.16	19.68	18.5	6.79	20.57	1575	0.52	1.15		
9:49 AM	2.4	0.16	19.68	20.5	6.76	20.67	1570	0.38	1.03		
9:54 AM	3.2	0.16	19.68	19	6.82	20.69	1565	0.27	1.12		
9:59 AM	4	0.16	19.68	17.4	6.83	20.82	1566	0.26	1.07		

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-32	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
1	250 ml	Poly	None	Fluoride	Pace

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-33</b>	SAMPLE ID: W-33-2022-Q4-RS	DATE: 1/6/2023 8:44:00 AM		
TOTAL WELL DEPTH (feet) (A): 21.15	WATER TABLE DEPTH (feet) (B): 15.81	LENGTH OF WATER COLUMN (feet) (A-B): 5.34		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 15.00 - 20.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.87		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 1/6/2023 8:21:00 AM	PURGING END TIME: 1/6/2023 8:43:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:23 AM	0	0	15.87	81.4	7.15	10.53	51	8.08	3.42		
8:28 AM	0.8	0.16	15.88	134.6	5.68	18	142	2.27	0.4		
8:33 AM	1.6	0.16	15.88	138	5.67	18.14	141	2.11	0.48		
8:38 AM	2.4	0.16	15.88	139.3	5.65	18.22	141	2	0.61		
8:43 AM	3.2	0.16	15.88	145.9	5.51	17.94	141	2.16	0.61		

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-33	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: <b>pH:</b> + 1.0 units <b>Temperature:</b> + 3% <b>Specific Conductance:</b> + 3% <b>Dissolved Oxygen:</b> optionally, + 0.2 mg/L or + 10% (whichever is greater) <b>ORP:</b> + 10 mV <b>Turbidity:</b> all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-39</b>	SAMPLE ID: W-39-2022-Q4-RS	DATE: 1/6/2023 10:39:00 AM		
TOTAL WELL DEPTH (feet) (A): 25.28	WATER TABLE DEPTH (feet) (B): 16.22	LENGTH OF WATER COLUMN (feet) (A-B): 9.06		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 13.00 - 23.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.48		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 1/6/2023 10:15:00 AM	PURGING END TIME: 1/6/2023 10:38:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:18 AM	0	0	16.29	106	6.11	19.21	0	5.89	0.85		
10:23 AM	0.8	0.16	16.29	151.4	5.45	20.4	469	2.83	0.98		
10:28 AM	1.6	0.16	16.29	157.5	5.46	20.33	466	2.74	1.01		
10:33 AM	2.4	0.16	16.22	155.9	5.48	20.22	469	2.69	1.07		
10:38 AM	3.2	0.16	16.29	159.3	5.41	20.28	474	2.69	1.11		

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-39	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE: W-39-2022-Q4-RS-Dup	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134	REMARKS:				
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: <b>pH:</b> + 1.0 units <b>Temperature:</b> + 3% <b>Specific Conductance:</b> + 3% <b>Dissolved Oxygen:</b> optionally, + 0.2 mg/L or + 10% (whichever is greater) <b>ORP:</b> + 10 mV <b>Turbidity:</b> all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-59</b>	SAMPLE ID: W-59-2022-Q4-RS	DATE: 1/5/2023 11:16:00 AM		
TOTAL WELL DEPTH (feet) (A): 14.95	WATER TABLE DEPTH (feet) (B): 11.30	LENGTH OF WATER COLUMN (feet) (A-B): 3.65		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 9.50 - 14.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.60		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 1/5/2023 10:39:00 AM	PURGING END TIME: 1/5/2023 11:15:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC. COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:40 AM	0	0	11.4	293.9	6.54	20.04	366	6.29	1.82	Clear	None
10:45 AM	0.5	0.1	11.48	289.4	6.37	20.58	364	0.47	1.27	Clear	None
10:50 AM	1.5	0.2	11.54	280.5	6.38	20.65	371	1.08	1.24	Clear	None
10:55 AM	3	0.3	11.54	275.4	6.38	20.63	369	0.49	1.35	Clear	None
11:00 AM	5	0.4	11.54	269.2	6.38	20.73	372	0.41	1.16	Clear	None
11:05 AM	7.5	0.5	11.54	264.1	6.38	20.79	371	0.33	1.18	Clear	None
11:10 AM	10.5	0.6	11.54	258.8	6.38	20.84	373	0.31	1.17	Clear	None
11:15 AM	14	0.7	11.54	254.2	6.38	20.88	375	0.33	1.25	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-59	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 101 # 17568		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
1	250 ml	Poly	None	Fluoride	Pace

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-65</b>	SAMPLE ID: W-65-2022-Q4-RS	DATE: 1/6/2023 11:23:00 AM		
TOTAL WELL DEPTH (feet) (A): 34.45	WATER TABLE DEPTH (feet) (B): 14.31	LENGTH OF WATER COLUMN (feet) (A-B): 20.14		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 26.50 - 31.50 ft	CALCULATED SYSTEM VOLUME (gallons): 3.29		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 1/6/2023 10:54:00 AM	PURGING END TIME: 1/6/2023 11:21:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:56 AM	0	0	14.51	188.4	6.57	17.71	122	4.93	20.39	Clear	None
11:01 AM	0.5	0.1	14.62	214.2	6.08	18.88	123	0.8	2.41	Clear	None
11:06 AM	1.5	0.2	14.63	224.4	5.97	19.36	119	0.58	1.21	Clear	None
11:11 AM	3	0.3	14.63	230	5.91	19.43	118	0.45	1.17	Clear	None
11:16 AM	5	0.4	14.63	234.8	5.84	19.59	119	0.35	13.35	Clear	None
11:21 AM	7.5	0.5	14.63	236.9	5.8	19.74	118	0.35	1.22	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-65	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 101 # 17568	REMARKS:				
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: <b>pH:</b> + 1.0 units <b>Temperature:</b> + 3% <b>Specific Conductance:</b> + 3% <b>Dissolved Oxygen:</b> optionally, + 0.2 mg/L or + 10% (whichever is greater) <b>ORP:</b> + 10 mV <b>Turbidity:</b> all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-66</b>	SAMPLE ID: W-66-2022-Q4-RS	DATE: 1/6/2023 12:05:00 PM		
TOTAL WELL DEPTH (feet) (A): 25.21	WATER TABLE DEPTH (feet) (B): 14.03	LENGTH OF WATER COLUMN (feet) (A-B): 11.18		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 12.50 - 22.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.82		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 1/6/2023 11:31:00 AM	PURGING END TIME: 1/6/2023 12:04:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:33 AM	0	0	14.04	242.2	5.35	19.75	85	4.17	10.87	Clear	None
11:38 AM	0.5	0.1	14.04	265.3	5.22	19.72	84	1.01	1.3	Clear	None
11:43 AM	1.5	0.2	14.04	279.1	5.2	19.68	84	0.87	1.28	Clear	None
11:48 AM	3	0.3	14.04	287.6	5.18	19.57	84	0.83	1.45	Clear	None
11:53 AM	5	0.4	14.04	296.9	5.2	19.49	85	0.76	1.48	Clear	None
11:58 AM	7.5	0.5	14.04	300.6	5.18	19.56	85	0.69	1.47	Clear	None
12:04 PM	10.5	0.5	14.04	303.1	5.18	19.64	87	0.63	1.33	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-66	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 101 # 17568	REMARKS:				
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: <b>pH:</b> + 1.0 units <b>Temperature:</b> + 3% <b>Specific Conductance:</b> + 3% <b>Dissolved Oxygen:</b> optionally, + 0.2 mg/L or + 10% (whichever is greater) <b>ORP:</b> + 10 mV <b>Turbidity:</b> all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-76</b>	SAMPLE ID: W-76-2022-Q4-RS	DATE: 1/3/2023 1:50:00 PM		
TOTAL WELL DEPTH (feet) (A): 14.75	WATER TABLE DEPTH (feet) (B): 10.83	LENGTH OF WATER COLUMN (feet) (A-B): 3.92		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 5.00 - 15.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.64		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 1/3/2023 1:10:00 PM	PURGING END TIME: 1/3/2023 1:47:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:12 PM	0	0	10.97	210.6	7.51	22.45	192	6.49	34.58	Clear	None
1:17 PM	0.5	0.1	10.98	297.1	5.34	22.15	183	6.27	18.26	Clear	None
1:22 PM	1.5	0.2	10.98	310.1	5.25	22.08	183	6.07	25.37	Clear	None
1:27 PM	3	0.3	10.98	309.7	5.25	22.15	183	5.99	25.6	Clear	None
1:32 PM	5	0.4	10.98	316.4	5.2	22.07	181	5.89	16.13	Clear	None
1:37 PM	7.5	0.5	10.98	328.4	5.18	22.16	183	5.78	13.78	Clear	None
1:42 PM	10.5	0.6	10.98	334	5.17	22.09	183	5.71	11.86	Clear	None
1:47 PM	14	0.7	10.98	330.5	5.19	22.12	183	5.51	8.74	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-76	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 102 # 25743		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
1	250 ml	Poly	None	Fluoride	Pace

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-77</b>	SAMPLE ID: W-77-2022-Q4-RS	DATE: 1/3/2023 12:50:00 PM		
TOTAL WELL DEPTH (feet) (A): 15.15	WATER TABLE DEPTH (feet) (B): 9.23	LENGTH OF WATER COLUMN (feet) (A-B): 5.92		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 5.50 - 15.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.97		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 1/3/2023 11:53:00 AM	PURGING END TIME: 1/3/2023 12:47:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:57 AM	0	0	9.28	36.4	11.5	21.6	2546	3.91	149.35	Cloudy	None
12:02 PM	0.5	0.1	9.43	-7.4	11.53	20.62	2344	0.62	179.67	Cloudy	None
12:07 PM	1.5	0.2	9.36	-7.4	10.97	20.49	1243	1.19	222.1	Cloudy	None
12:12 PM	3	0.3	9.38	6.3	10.52	20.08	919	1.67	278.15	Cloudy	None
12:17 PM	5	0.4	9.38	-8.1	11.2	20.09	1585	1.54	201.64	Cloudy	None
12:22 PM	7.5	0.5	9.38	-18.8	11.35	20.17	1842	1.4	175.88	Cloudy	None
12:27 PM	10.5	0.6	9.39	-28	11.45	20.24	2042	1.27	157.51	Cloudy	None
12:32 PM	14	0.7	9.39	-35.6	11.5	20.34	2182	1.19	148.13	Cloudy	None
12:37 PM	18	0.8	9.39	-41.1	11.53	20.33	2252	1.16	143.02	Cloudy	None
12:42 PM	22.5	0.9	9.39	-45.7	11.53	20.37	2275	1.05	144.61	Cloudy	None
12:47 PM	27.5	1	9.39	-49.1	11.55	20.45	2330	1.01	143.25	Cloudy	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-77	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 102 # 25743		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
1	250 ml	Poly	None	Fluoride	Pace

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-78</b>	SAMPLE ID: W-78-2022-Q4-RS	DATE: 1/5/2023 9:05:00 AM		
TOTAL WELL DEPTH (feet) (A): 15.08	WATER TABLE DEPTH (feet) (B): 10.11	LENGTH OF WATER COLUMN (feet) (A-B): 4.97		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 5.50 - 15.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.81		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME:	PURGING END TIME:	PUMP TYPE:

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:28 AM	0	0	10.15	125.6	6.91	17.62	261	9.05	6.11	Clear	None
8:33 AM	0.5	0.1	10.15	177.2	6.55	18.67	262	5.78	4.07	Clear	None
8:38 AM	1.5	0.2	10.15	198.5	6.42	19.8	258	5.63	2.34	Clear	None
8:43 AM	3	0.3	10.15	210.7	6.33	20.02	258	5.55	2.08	Clear	None
8:48 AM	5	0.4	10.15	218.9	6.29	20.22	258	5.51	1.67	Clear	None
8:53 AM	7.5	0.5	10.15	224.9	6.25	20.17	256	5.41	1.14	Clear	None
8:58 AM	10.5	0.6	10.15	229.3	6.24	20.21	256	5.37	1.2	Clear	None
9:03 AM	14	0.7	10.15	231.7	6.23	20.24	256	5.38	1.07	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-78	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 101 # 17568		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
1	250 ml	Poly	None	Fluoride	Pace

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-79</b>	SAMPLE ID: W-79-2022-Q4-RS	DATE: 1/3/2023 1:37:00 PM		
TOTAL WELL DEPTH (feet) (A): 15.31	WATER TABLE DEPTH (feet) (B): 8.87	LENGTH OF WATER COLUMN (feet) (A-B): 6.44		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 5.50 - 15.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.05		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 1/3/2023 1:11:00 PM	PURGING END TIME: 1/3/2023 1:37:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:12 PM	0	0	8.97	99.5	6.18	22.61	189	6.71	2.87		
1:17 PM	0.7	0.14	9.02	124	6.17	21.88	191	6.73	1.91		
1:22 PM	1.4	0.14	9.02	132.6	6.15	22	190	6.37	2.43		
1:27 PM	2.1	0.14	9.02	139.2	6.14	21.98	190	6.12	2.04		
1:32 PM	2.8	0.14	9.02	144.8	6.08	22.05	190	5.85	1.81		
1:37 PM	3.5	0.14	9.02	147.2	6.05	22.08	190	5.66	2.14		

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-79	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
1	250 ml	Poly	None	Fluoride	Pace

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-80</b>	SAMPLE ID: W-80-2022-Q4-RS	DATE: 1/3/2023 12:51:00 PM		
TOTAL WELL DEPTH (feet) (A): 15.32	WATER TABLE DEPTH (feet) (B): 11.23	LENGTH OF WATER COLUMN (feet) (A-B): 4.09		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 5.50 - 15.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.67		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 1/3/2023 12:14:00 PM	PURGING END TIME: 1/3/2023 12:51:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:16 PM	0	0	11.53	84	6.54	27.43	3	3.31	10.5		
12:21 PM	0.9	0.18	12.25	145.8	5.29	21.76	276	2.91	22.11		
12:26 PM	1.4	0.1	12.6	142.4	5.36	21.71	273	2.84	33.83		
12:31 PM	1.9	0.1	12.85	144.2	5.44	21.85	271	2.35	33.22		
12:36 PM	2.3	0.08	12.97	149.8	5.4	21.78	268	2.34	31		
12:41 PM	2.7	0.08	13.18	147.1	5.46	21.77	266	1.88	16.85		
12:46 PM	3.1	0.08	13.32	148.5	5.43	21.76	263	1.74	9.74		
12:51 PM	3.5	0.08	13.48	144.3	5.49	21.79	261	1.61	10.05		

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-80	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
1	250 ml	Poly	None	Fluoride	Pace

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-93</b>	SAMPLE ID: W-93-2022-Q4-RS	DATE: 1/3/2023 11:40:00 AM		
TOTAL WELL DEPTH (feet) (A): 34.80	WATER TABLE DEPTH (feet) (B): 10.68	LENGTH OF WATER COLUMN (feet) (A-B): 24.12		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 30.50 - 35.50 ft	CALCULATED SYSTEM VOLUME (gallons): 3.94		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME:	PURGING END TIME:	PUMP TYPE:

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:09 AM	0	0	10.77	266.5	7.27	21.93	180	6.56	6.19	Clear	None
11:14 AM	0.5	0.1	10.82	490.6	6.61	21.9	171	5.85	2.51	Clear	None
11:19 AM	1.5	0.2	10.8	524.3	6.39	21.97	166	5.18	2.52	Clear	None
11:24 AM	3	0.3	10.8	512.5	6.13	22.05	159	3.69	2.52	Clear	None
11:29 AM	5	0.4	10.82	503.1	6.04	22.1	156	3.39	8.52	Clear	None
11:34 AM	7.5	0.5	10.82	500.7	6.04	22.06	155	3.42	13.96	Clear	None
11:39 AM	10.5	0.6	10.82	506.2	6.04	21.69	154	3.39	18.37	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-93	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 102 # 25743		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
1	250 ml	Poly	None	Fluoride	Pace

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-102</b>		SAMPLE ID: W-102-2022-Q4-RS	DATE: 1/5/2023 1:21:00 PM	
TOTAL WELL DEPTH (feet) (A): 33.45		WATER TABLE DEPTH (feet) (B): 11.12	LENGTH OF WATER COLUMN (feet) (A-B): 22.33	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 28.50 - 33.50 ft	CALCULATED SYSTEM VOLUME (gallons): 3.64	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 1/5/2023 12:18:00 PM	PURGING END TIME: 1/5/2023 1:20:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. ( $\mu$ s/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:20 PM	0	0	11.27	214.3	6.82	20.38	1584	6.4	5.57	Clear	None
12:25 PM	0.5	0.1	11.31	205.6	7.06	21.04	1731	0.53	4.45	Clear	None
12:30 PM	1.5	0.2	11.32	199.3	7.05	21.07	1651	0.35	1.98	Clear	None
12:35 PM	3	0.3	11.33	192.7	7.05	21.33	1627	0.25	1.61	Clear	None
12:40 PM	5	0.4	11.33	188.7	7.02	21.48	1470	0.22	1.48	Clear	None
12:45 PM	7.5	0.5	11.33	184.8	6.98	21.52	1356	0.17	3.07	Clear	None
12:50 PM	10.5	0.6	11.33	181.2	6.95	21.67	1258	0.16	1.5	Clear	None
12:55 PM	14	0.7	11.33	177.5	6.95	21.52	1203	0.16	1.51	Clear	None
1:00 PM	18	0.8	11.33	174	6.97	21.64	1193	0.14	2.19	Clear	None
1:05 PM	22.5	0.9	11.33	171.1	6.96	21.55	1157	0.17	1.44	Clear	None
1:10 PM	27.5	1	11.33	167.3	6.98	21.63	1107	0.13	1.43	Clear	None
1:15 PM	33	1.1	11.33	164.3	7.02	21.49	1186	0.13	1.63	Clear	None
1:20 PM	39	1.2	11.33	161.2	7.03	21.66	1128	0.13	1.29	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-102	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 101 # 17568		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
1	250 ml	Poly	None	Fluoride	Pace

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-120</b>	SAMPLE ID: W-120-2022-Q4-RS	DATE: 1/6/2023 9:53:00 AM		
TOTAL WELL DEPTH (feet) (A): 36.93	WATER TABLE DEPTH (feet) (B): 15.25	LENGTH OF WATER COLUMN (feet) (A-B): 21.68		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 29.00 - 34.00 ft	CALCULATED SYSTEM VOLUME (gallons): 3.54		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 1/6/2023 9:16:00 AM	PURGING END TIME: 1/6/2023 9:53:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:18 AM	0	0	15.35	125.3	5.71	17.04	162	4.98	20.37		
9:23 AM	0.7	0.14	15.38	121.2	5.81	19.2	200	1.01	1.54		
9:28 AM	1.4	0.14	15.38	121.5	5.82	19.52	201	0.78	0.89		
9:33 AM	2.1	0.14	15.38	121.2	5.76	19.72	188	0.52	1.06		
9:38 AM	2.8	0.14	15.38	123	5.71	19.7	186	0.47	1.03		
9:43 AM	3.5	0.14	15.38	121	5.69	19.67	180	0.4	1.03		
9:48 AM	4.2	0.14	15.38	123	5.68	19.73	178	0.53	0.99		
9:53 AM	4.9	0.14	15.38	125.4	5.64	19.87	175	0.55	0.99		

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-120	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 867305 WL/int meter: Solinst 101 # 322134	REMARKS:				
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: <b>pH:</b> + 1.0 units <b>Temperature:</b> + 3% <b>Specific Conductance:</b> + 3% <b>Dissolved Oxygen:</b> optionally, + 0.2 mg/L or + 10% (whichever is greater) <b>ORP:</b> + 10 mV <b>Turbidity:</b> all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace

## Low Flow Groundwater Sample Collection Record

<b>WELL NO:</b> W-123	SAMPLE ID: W-123-2022-Q4-RS	DATE: 1/3/2023 10:35:00 AM		
TOTAL WELL DEPTH (feet) (A): 34.32	WATER TABLE DEPTH (feet) (B): 14.54	LENGTH OF WATER COLUMN (feet) (A-B): 19.78		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 29.00 - 34.00 ft	CALCULATED SYSTEM VOLUME (gallons): 3.23		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 1/3/2023 10:07:00 AM	PURGING END TIME: 1/3/2023 10:33:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:13 AM	0	0	14.84	-57.5	7.91	20.54	1708	3.75	37.66	Clear	None
10:18 AM	0.5	0.1	14.91	-64.4	8.1	21.26	1712	0.41	13.8	Clear	None
10:23 AM	2	0.3	14.88	-64.6	8.13	21.27	1710	0.27	3.65	Clear	None
10:28 AM	4	0.4	14.87	-62.4	8.12	21.27	1707	0.24	4.07	Clear	None
10:33 AM	6.5	0.5	14.87	-59.6	8.12	21.3	1705	0.26	5.58	Clear	None

SAMPLING DATA					
WELL NO: W-123	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 663653 WL/int meter: Solinst 102 # 25743		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: <b>pH:</b> + 1.0 units <b>Temperature:</b> + 3% <b>Specific Conductance:</b> + 3% <b>Dissolved Oxygen:</b> optionally, + 0.2 mg/L or + 10% (whichever is greater) <b>ORP:</b> + 10 mV <b>Turbidity:</b> all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
1	250 ml	Poly	None	Fluoride	Pace

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-RW1</b>		SAMPLE ID: W-RW1-2023-Q2	DATE: 4/13/2023 8:57:00 AM	
TOTAL WELL DEPTH (feet) (A): 33.00		WATER TABLE DEPTH (feet) (B): 8.10	LENGTH OF WATER COLUMN (feet) (A-B): 24.90	
CASING DIAMETER / MATL: 4 in, STEEL		WELL SCREEN INTERVAL DEPTH: 22.00 - 32.00 ft	CALCULATED SYSTEM VOLUME (gallons): 16.25	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/13/2023 8:28:00 AM	PURGING END TIME: 4/13/2023 8:55:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC. COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:31 AM	0		8.1	69.7	5.87	17.5	152.337	5.62	8.08	Clear	None
8:35 AM	0.6	0.12	8.1	83.6	5.66	18.51	82.2841	4.79	0	Clear	None
8:40 AM	1.2	0.12	8.1	76.3	5.63	19.11	79.0596	5.16	21.36	Clear	None
8:45 AM	1.8	0.12	8.1	81.6	5.59	19.59	76.0439	4.68	0	Clear	None
8:50 AM	2.4	0.12	8.1	81.6	5.59	19.6	75.8813	4.63	0	Clear	None
8:55 AM	3	0.12	8.1	83.7	5.59	19.76	75.9008	4.58	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-RW1</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134	REMARKS:				
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: <b>pH:</b> + 1.0 units <b>Temperature:</b> + 3% <b>Specific Conductance:</b> + 3% <b>Dissolved Oxygen:</b> optionally, + 0.2 mg/L or + 10% (whichever is greater) <b>ORP:</b> + 10 mV <b>Turbidity:</b> all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-RW2</b>	SAMPLE ID: W-RW2-2023-Q2	DATE: 4/14/2023 11:16:00 AM		
TOTAL WELL DEPTH (feet) (A): 31.35	WATER TABLE DEPTH (feet) (B): 17.80	LENGTH OF WATER COLUMN (feet) (A-B): 13.55		
CASING DIAMETER / MATL: 4 in, STEEL	WELL SCREEN INTERVAL DEPTH: 18.50 - 28.50 ft	CALCULATED SYSTEM VOLUME (gallons): 8.85		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 28.35	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/14/2023 10:51:00 AM	PURGING END TIME: 4/14/2023 11:14:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:54 AM	0		18.03	90.1	5.57	21.82	147.797	4.42	8.42	Clear	None
10:59 AM	0.8	0.16	18.06	114.1	5.16	18.96	151.732	2.22	0	Clear	None
11:04 AM	1.6	0.16	18.06	124.7	5.09	18.82	151.489	2.05	0.94	Clear	None
11:09 AM	2.4	0.16	18.06	125.6	5.12	18.81	151.63	2.04	0	Clear	None
11:14 AM	3.2	0.16	18.06	125.4	5.17	18.79	151.871	1.99	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-RW2</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Alpha,Gross Beta,Tc-99,ISO U HASL,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL
2	250 ml	Amber Glass	None	SVOCs	Pace

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-3A</b>		SAMPLE ID: W-3A-2023-Q2	DATE: 4/20/2023 11:13:00 AM	
TOTAL WELL DEPTH (feet) (A): 85.20		WATER TABLE DEPTH (feet) (B): 5.00	LENGTH OF WATER COLUMN (feet) (A-B): 80.20	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 73.00 - 83.00 ft	CALCULATED SYSTEM VOLUME (gallons): 13.09	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/20/2023 10:31:00 AM	PURGING END TIME: 4/20/2023 11:12:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:32 AM	0	0.08	5.08	56.3	7.82	20.98	0.0595152	8.52	0	Clear	None
10:37 AM	0.4	0.08	5.1	-41.9	7.69	19.52	0.212274	8.65	0	Clear	None
10:42 AM	0.8	0.08	5.1	-48.9	7.73	19.37	0.228448	8.7	0	Clear	None
10:47 AM	1.2	0.08	5.1	-52.3	7.74	19.45	0.223959	8.73	0	Clear	None
10:52 AM	1.6	0.08	5.1	-53.5	7.71	19.57	0.162635	8.59	0	Clear	None
10:57 AM	2	0.08	5.1	-51.9	7.65	19.74	0.0906107	8.59	0	Clear	None
11:02 AM	2.4	0.08	5.1	-49.8	7.58	19.9	0.0608756	8.59	0	Clear	None
11:07 AM	2.8	0.08	5.1	-50	7.51	20.02	0.0607168	8.58	0	Clear	None
11:12 AM	2.8	0.08	5.1	-51.9	7.46	20.2	0.0604909	8.57	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-3A</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-4R</b>	SAMPLE ID: W-4R-2023-Q2	DATE: 4/21/2023 9:08:00 AM		
TOTAL WELL DEPTH (feet) (A): 17.30	WATER TABLE DEPTH (feet) (B): 6.88	LENGTH OF WATER COLUMN (feet) (A-B): 10.42		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 4.50 - 14.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.70		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14.3	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/21/2023 8:20:00 AM	PURGING END TIME: 4/21/2023 9:06:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:21 AM	0	0.1	6.97	149.4	7.68	15.4	0.0957555	9.22	0	Clear	None
8:26 AM	0.5	0.1	7	147.7	7.68	15.51	0.15481	9.19	0	Clear	None
8:31 AM	1	0.1	7.02	147.4	7.67	15.58	0.210788	9.11	0	Clear	None
8:36 AM	1.5	0.1	7.02	147.6	7.67	15.62	0.240307	9.06	0	Clear	None
8:41 AM	2	0.1	7.02	148	7.65	15.67	0.280548	9.02	0	Clear	None
8:46 AM	2.5	0.1	7.02	148.3	7.65	15.7	0.211135	8.99	0	Clear	None
8:51 AM	3	0.1	7.02	148.8	7.64	15.75	0.0855699	8.94	0	Clear	None
8:56 AM	3.5	0.1	7.02	149.2	7.63	15.84	0.0665949	8.87	0	Clear	None
9:01 AM	4	0.1	7.02	149.7	7.62	15.88	0.0665366	8.82	0	Clear	None
9:06 AM	4.5	0.1	7.02	150.3	7.61	15.93	0.0664611	8.74	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-4R</b>	SAMPLED BY: Trevor Brown		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666	REMARKS:				
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: <b>pH:</b> + 1.0 units <b>Temperature:</b> + 3% <b>Specific Conductance:</b> + 3% <b>Dissolved Oxygen:</b> optionally, + 0.2 mg/L or + 10% (whichever is greater) <b>ORP:</b> + 10 mV <b>Turbidity:</b> all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-6</b>	SAMPLE ID: W-6-2023-Q2	DATE: 4/11/2023 12:39:00 PM		
TOTAL WELL DEPTH (feet) (A): 27.35	WATER TABLE DEPTH (feet) (B): 9.65	LENGTH OF WATER COLUMN (feet) (A-B): 17.70		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 23.00 - 28.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.89		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 24.65	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/11/2023 11:40:00 AM	PURGING END TIME: 4/11/2023 12:38:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC. COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:43 AM	0		10.35	-126.4	6.21	20.91	1571.87	1.1	14.17	Clear	None
11:48 AM	0.5	0.1	10.45	-110.3	6.22	20.65	1572.33	0.51	3.12	Clear	None
11:53 AM	1	0.1	10.6	-112.5	6.23	20.68	1586.26	0.42	8.14	Clear	None
11:58 AM	1.5	0.1	10.63	-120.7	6.24	20.8	1575.75	0.35	12.4	Clear	None
12:03 PM	2	0.1	10.66	-133.5	6.23	20.71	1579.01	0.27	18.3	Clear	None
12:08 PM	2.5	0.1	10.69	-154.6	6.24	20.84	1575.53	0.25	24.14	Clear	None
12:13 PM	3	0.1	10.72	-153.6	6.23	20.9	1555.86	0.24	26.44	Clear	None
12:18 PM	3.4	0.1	10.66	-145.1	6.24	21.41	1580.08	0.24	31.95	Clear	None
12:23 PM	3.8	0.1	10.66	-132.1	6.23	21.55	1557.19	0.25	38.13	Clear	None
12:28 PM	4.2	0.1	10.64	-129.1	6.23	21.48	1541.77	0.22	40.21	Clear	None
12:33 PM	4.6	0.1	10.64	-134.3	6.24	21.5	1542.14	0.2	52.12	Clear	None
12:38 PM	5	0.1	10.64	-132.4	6.24	21.42	1534.46	0.19	59.69	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-6</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-7A</b>	SAMPLE ID: W-7A-2023-Q2	DATE: 4/5/2023 11:01:00 AM		
TOTAL WELL DEPTH (feet) (A): 20.12	WATER TABLE DEPTH (feet) (B): 11.15	LENGTH OF WATER COLUMN (feet) (A-B): 8.97		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 13.00 - 18.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.46		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME:	PURGING END TIME:	PUMP TYPE:

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. ( $\mu$ s/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:40 AM	0	0.1	11.49	44.5	6.67	29.12	2275.7	2.04	0	Clear	None
10:45 AM	0.5	0.1	11.74	57.2	6.85	19.67	2462.93	0.23	0	Clear	None
10:50 AM	1.5	0.1	11.76	61.3	6.84	19.65	2473.17	0.18	0	Clear	None
10:55 AM	3	0.1	11.77	64.4	6.84	19.69	2476.65	0.15	0	Clear	None
11:00 AM	5	0.1	11.77	66.4	6.85	19.6	2476.73	0.13	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-7A</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS,Gross Alpha,Gross Beta,Gross Alpha,Gross Beta,Gross Alpha,Gross Beta,Gamma Spec	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-10</b>	SAMPLE ID: W-10-2023-Q2	DATE: 4/5/2023 10:05:00 AM		
TOTAL WELL DEPTH (feet) (A): 22.23	WATER TABLE DEPTH (feet) (B): 15.11	LENGTH OF WATER COLUMN (feet) (A-B): 7.12		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 17.50 - 22.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.16		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME:	PURGING END TIME:	PUMP TYPE:

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC. COND. ( $\mu$ s/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:37 AM	0	0.12	15.62	-6.3	6.79	20.94	412.4	2.57	0	Clear	None
9:42 AM	0.6	0.12	16.1	13.1	5.89	19.08	390.877	0.22	0	Clear	None
9:47 AM	1.7	0.1	16.05	13.2	5.98	19.21	389.608	0.21	0	Clear	None
9:52 AM	3.3	0.1	16.05	13.3	6.05	19.35	391.755	0.18	0	Clear	None
9:58 AM	5.4	0.1	16.05	14.7	6.09	19.47	394.876	0.16	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-10</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS,Gross Alpha,Gross Beta,Gamma Spec	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-11</b>	SAMPLE ID: W-11-2023-Q2	DATE: 4/5/2023 12:54:00 PM		
TOTAL WELL DEPTH (feet) (A): 27.28	WATER TABLE DEPTH (feet) (B): 17.78	LENGTH OF WATER COLUMN (feet) (A-B): 9.50		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 22.00 - 25.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.55		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME:	PURGING END TIME:	PUMP TYPE:

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:32 PM	0	0.1	18.33	69	6.28	30.25	442.138	2.03	4.46	Clear	None
12:37 PM	0.5	0.1	19.28	120.4	4.95	21.76	355.788	0.39	0	Clear	None
12:42 PM	1.5	0.1	19.93	128	4.84	22.69	363.156	0.37	0	Clear	None
12:47 PM	3	0.1	20.51	130.3	4.81	22.31	356.694	0.29	0	Clear	None
12:52 PM	5	0.1	21.09	131.4	4.82	22.46	362.125	0.23	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-11	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-13R</b>	SAMPLE ID: W-13R-2023-Q2	DATE: 4/6/2023 10:07:00 AM		
TOTAL WELL DEPTH (feet) (A): 20.29	WATER TABLE DEPTH (feet) (B): 11.65	LENGTH OF WATER COLUMN (feet) (A-B): 8.64		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 15.00 - 20.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.41		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/6/2023 9:38:00 AM	PURGING END TIME: 4/6/2023 10:05:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:40 AM	0	0.14	11.75	-60.9	6.82	27.32	19.5558	3.03	429.59	Clear	None
9:45 AM	0.7	0.14	11.75	-91.4	6.2	21.04	482.296	0.41	26.51	Clear	None
9:50 AM	1.4	0.14	11.75	-102.2	6.25	20.96	526.873	0.33	26.64	Clear	None
9:55 AM	2.1	0.14	11.75	-111.4	6.33	21.01	598.149	0.29	27.29	Clear	None
10:00 AM	2.8	0.14	11.75	-119.3	6.37	21.09	612.179	0.36	16.66	Clear	None
10:05 AM	3.5	0.14	11.75	-120.6	6.4	21.24	616.95	0.28	17.97	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-13R</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134	REMARKS:				
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: <b>pH:</b> + 1.0 units <b>Temperature:</b> + 3% <b>Specific Conductance:</b> + 3% <b>Dissolved Oxygen:</b> optionally, + 0.2 mg/L or + 10% (whichever is greater) <b>ORP:</b> + 10 mV <b>Turbidity:</b> all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Alpha,Tc-99,ISO U HASL,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-14</b>	SAMPLE ID: W-14-2023-Q2	DATE: 4/10/2023 12:18:00 PM		
TOTAL WELL DEPTH (feet) (A): 30.46	WATER TABLE DEPTH (feet) (B): 15.41	LENGTH OF WATER COLUMN (feet) (A-B): 15.05		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 24.00 - 29.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.46		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 27.46	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/10/2023 11:59:00 AM	PURGING END TIME: 4/10/2023 12:15:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:00 PM	0	0.1	15.49	-18.2	6.84	17.34	0	0.67	0	Clear	None
12:05 PM	0.6	0.12	15.49	-39.9	7.08	17.87	0.0636093	0.28	0	Clear	None
12:10 PM	1.2	0.12	15.49	-33.3	7.04	18.16	0.0631964	0.24	0	Clear	None
12:15 PM	1.8	0.12	15.49	-38.3	7.06	18.41	0.0628554	0.2	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-14</b>	SAMPLED BY: Trevor Brown		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666	REMARKS:				
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-15</b>	SAMPLE ID: W-15-2023-Q2	DATE: 4/13/2023 12:49:00 PM		
TOTAL WELL DEPTH (feet) (A): 21.94	WATER TABLE DEPTH (feet) (B): 10.95	LENGTH OF WATER COLUMN (feet) (A-B): 10.99		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 15.50 - 20.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.79		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 18.94	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/13/2023 12:27:00 PM	PURGING END TIME: 4/13/2023 12:49:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:29 PM	0	0.08	11.1	101.6	6.24	25.22	492.015	1.97	0	Clear	None
12:34 PM	0.4	0.08	11.18	142.9	6.02	19.03	545.2	0.28	0	Clear	None
12:39 PM	0.8	0.08	11.2	158.5	5.89	18.93	549.402	0.19	0	Clear	None
12:44 PM	1.2	0.08	11.22	165.9	5.82	18.9	553.039	0.15	0	Clear	None
12:49 PM	1.6	0.08	11.23	168.4	5.81	19.3	551.242	0.12	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-15</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666	REMARKS:				
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Alpha,Gross Beta,Tc-99,ISO U HASL,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-16</b>	SAMPLE ID: W-16-2023-Q2	DATE: 4/10/2023 1:43:00 PM		
TOTAL WELL DEPTH (feet) (A): 13.54	WATER TABLE DEPTH (feet) (B): 2.66	LENGTH OF WATER COLUMN (feet) (A-B): 10.88		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 11.00 - 14.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.78		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10.54	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/10/2023 12:55:00 PM	PURGING END TIME: 4/10/2023 1:40:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:55 PM	0	0.12	4.3	37.8	7.69	20.09	0.060625	6.67	0	Clear	None
1:00 PM	0.6	0.12	5.19	53	7.71	19.67	0	6.57	0	Clear	None
1:05 PM	1.2	0.12	5.59	62.7	7.62	19.73	0	5.5	0	Clear	None
1:10 PM	1.8	0.12	5.79	70	7.51	19.84	0	2.51	0	Clear	None
1:15 PM	2.4	0.12	5.89	70.1	7.34	19.86	0.0609232	1.4	0	Clear	None
1:20 PM	3	0.12	5.93	67.8	7.3	18.73	347.835	0.91	1.62	Clear	None
1:25 PM	3.6	0.12	5.99	62.1	7.27	18.58	361.735	0.81	0.27	Clear	None
1:30 PM	4.2	0.12	6.02	64.5	7.25	18.77	369.148	0.46	0	Clear	None
1:35 PM	4.8	0.12	6.05	65.8	7.22	18.5	374.853	0.35	0	Clear	None
1:40 PM	5.4	0.12	6.05	66.2	7.21	18.86	373.227	0.35	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-16</b>	SAMPLED BY: Trevor Brown		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666	REMARKS:				
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Alpha,Gross Beta,Tc-99,ISO U HASL,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-17</b>	SAMPLE ID: W-17-2023-Q2	DATE: 4/17/2023 9:57:00 AM		
TOTAL WELL DEPTH (feet) (A): 25.20	WATER TABLE DEPTH (feet) (B): 13.53	LENGTH OF WATER COLUMN (feet) (A-B): 11.67		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 23.00 - 28.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.90		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 22.2	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/17/2023 9:34:00 AM	PURGING END TIME: 4/17/2023 9:56:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:36 AM	0		13.63	-42.4	7.78	17.55	472.897	7.02	0	Clear	None
9:41 AM	0.8	0.16	13.69	-31.2	6.76	18.63	575.113	0.51	0	Clear	None
9:46 AM	1.6	0.16	13.69	-28.2	6.75	18.72	573.94	0.38	0	Clear	None
9:51 AM	2.4	0.16	13.69	-27.7	6.73	18.81	567.752	0.32	0	Clear	None
9:56 AM	3.2	0.16	13.69	-27.9	6.71	18.95	559.309	0.27	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-17</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-18R</b>		SAMPLE ID: W-18R-2023-Q2	DATE: 4/17/2023 11:38:00 AM	
TOTAL WELL DEPTH (feet) (A): 27.38		WATER TABLE DEPTH (feet) (B): 11.87	LENGTH OF WATER COLUMN (feet) (A-B): 15.51	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 22.50 - 27.50 ft		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/17/2023 10:39:00 AM	PURGING END TIME: 4/17/2023 11:36:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:41 AM	0		11.26	19.2	6.87	20.43	2521.42	5.37	0	Clear	None
10:46 AM	0.6	0.12	12.02	-5.2	6.99	20.25	2068.99	0.6	0	Clear	None
10:51 AM	1.1	0.1	12.4	-12.6	6.98	20.3	2154.92	0.61	0	Clear	None
10:56 AM	1.5	0.08	12.64	-17.8	6.99	20.25	2283.24	0.55	0	Clear	None
11:01 AM	1.9	0.08	12.83	-22.3	7.01	20.48	2391.86	0.37	0	Clear	None
11:06 AM	2.3	0.08	12.96	-26.4	7.03	20.52	2458.2	0.36	0	Clear	None
11:11 AM	2.7	0.08	13.07	-28.7	7.06	20.62	2580.17	0.4	0	Clear	None
11:16 AM	3.1	0.08	13.18	-30.9	7.08	20.68	2661.99	0.35	0	Clear	None
11:21 AM	3.5	0.08	13.25	-32.1	7.1	20.78	2775.09	0.36	0	Clear	None
11:26 AM	3.9	0.08	13.3	-33.3	7.12	20.83	2848.86	0.37	0	Clear	None
11:31 AM	4.3	0.08	13.37	-34.3	7.15	20.83	2984.57	0.37	0	Clear	None
11:36 AM	4.7	0.08	13.41	-35.4	7.16	20.89	3045.2	0.36	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-18R	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Alpha,Gross Beta,Tc-99,ISO U HASL,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-19B</b>	SAMPLE ID: W-19B-2023-Q2	DATE: 4/17/2023 2:00:00 PM		
TOTAL WELL DEPTH (feet) (A): 42.85	WATER TABLE DEPTH (feet) (B): 25.39	LENGTH OF WATER COLUMN (feet) (A-B): 17.46		
CASING DIAMETER / MATL: 4 in, PVC	WELL SCREEN INTERVAL DEPTH: 30.50 - 40.50 ft	CALCULATED SYSTEM VOLUME (gallons): 11.40		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 39.85	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/17/2023 1:20:00 PM	PURGING END TIME: 4/17/2023 1:57:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:22 PM	0	0.1	25.43	153.5	5.11	33.5	0.346452	6.28	0	Clear	None
1:27 PM	0.5	0.1	25.43	146.2	4.13	27.83	0.593964	6.41	0	Clear	None
1:32 PM	1	0.1	25.42	138.6	4.22	26.05	0	6.55	0	Clear	None
1:37 PM	1.5	0.1	25.42	136.2	4.28	25.17	0	6.62	0	Clear	None
1:42 PM	2	0.1	25.42	138.2	4.34	24.6	0	6.64	0	Clear	None
1:47 PM	2.5	0.1	25.42	158.2	4.37	24.42	0	6.63	0	Clear	None
1:52 PM	3	0.1	25.42	158.6	4.39	24.29	0	6.61	0	Clear	None
1:57 PM	3.5	0.1	25.42	158.2	4.39	24.19	0	6.59	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-19B</b>	SAMPLED BY: Trevor Brown		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE: W-19B-2023-Q2-DUP	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666	REMARKS:				
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-20</b>	SAMPLE ID: W-20-2023-Q2	DATE: 4/21/2023 12:23:00 PM		
TOTAL WELL DEPTH (feet) (A): 16.38	WATER TABLE DEPTH (feet) (B): 7.11	LENGTH OF WATER COLUMN (feet) (A-B): 9.27		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 10.50 - 15.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.51		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13.38	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/21/2023 11:49:00 AM	PURGING END TIME: 4/21/2023 12:20:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:50 AM	0	0.11	7.13	1.4	7.07	20.54	0.0600581	7.92	0	Clear	None
11:55 AM	0.55	0.11	7.13	-0.3	6.45	19.34	0.0616028	8.11	0	Clear	None
12:00 PM	1.1	0.11	7.13	0	6.29	18.93	0.0621546	8.08	0	Clear	None
12:05 PM	1.65	0.11	7.13	-0.7	6.51	18.66	0.117381	8.07	0	Clear	None
12:10 PM	2.2	0.11	7.13	6.6	6.4	18.57	0.0626396	8	0	Clear	None
12:15 PM	2.75	0.11	7.13	12.3	6.3	18.59	0.0626101	7.95	0	Clear	None
12:20 PM	3.3	0.11	7.13	15.9	6.23	18.63	0.0625558	7.84	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-20	SAMPLED BY: Trevor Brown		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-22</b>		SAMPLE ID: W-22-2023-Q2	DATE: 4/11/2023 2:00:00 PM	
TOTAL WELL DEPTH (feet) (A): 14.54		WATER TABLE DEPTH (feet) (B): 9.26	LENGTH OF WATER COLUMN (feet) (A-B): 5.28	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 10.00 - 15.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.86	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/11/2023 12:57:00 PM	PURGING END TIME: 4/11/2023 1:57:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:02 PM	0		9.4	-50.6	6.52	26	216.017	5.18	16.36	Clear	None
1:07 PM	0.6	0.12	9.43	-51.1	4.61	19.85	77.0167	0.84	13.09	Clear	None
1:12 PM	1.2	0.12	9.45	-76.3	4.81	19.73	143.896	0.52	0.26	Clear	None
1:17 PM	1.8	0.12	9.45	-81	4.81	19.61	146.82	0.41	0	Clear	None
1:22 PM	2.4	0.12	9.45	-86.7	4.86	19.88	147.611	0.32	0	Clear	None
1:27 PM	3	0.12	9.45	-97.5	5.01	19.97	159.132	0.27	0.6	Clear	None
1:32 PM	3.6	0.12	9.45	-29.9	5.14	19.91	181.43	0.27	0.48	Clear	None
1:37 PM	4.2	0.12	9.45	-83.6	5.23	19.88	208.356	0.2	0.53	Clear	None
1:42 PM	4.8	0.12	9.45	-105.4	5.27	19.81	231.683	0.18	1.31	Clear	None
1:47 PM	5.4	0.12	9.45	-118.1	5.31	19.81	247.577	0.16	1.31	Clear	None
1:52 PM	6	0.12	9.45	-123.9	5.34	20	273.656	0.16	3.62	Clear	None
1:57 PM	6.6	0.12	9.45	-129.9	5.37	19.85	292.911	0.14	4.89	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-22	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Alpha,Gross Beta,Tc-99,ISO U HASL,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-23R</b>	SAMPLE ID: W-23R-2023-Q2	DATE: 4/10/2023 9:27:00 AM		
TOTAL WELL DEPTH (feet) (A): 23.88	WATER TABLE DEPTH (feet) (B): 18.65	LENGTH OF WATER COLUMN (feet) (A-B): 5.23		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 16.00 - 21.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.85		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20.88	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/10/2023 8:48:00 AM	PURGING END TIME: 4/10/2023 9:19:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:49 AM	0	0.1	18.77	87.9	6.03	8.58	0.0800401	8.37	0	Clear	None
8:54 AM	0.5	0.1	18.84	123	5.9	11.79	0.0734871	4.76	0	Clear	None
8:59 AM	1	0.1	18.87	138.9	5.24	12.81	0.0716196	4.61	1.99	Clear	None
9:04 AM	1.5	0.1	18.91	157.1	5.5	13.83	0.0698391	4.48	7.12	Clear	None
9:09 AM	2	0.1	18.91	164	5.48	14.17	0.0692791	4.52	13.47	Clear	None
9:14 AM	2.5	0.1	18.91	168.2	5.26	14.35	0.0689689	4.4	15.46	Clear	None
9:19 AM	3	0.1	18.92	171	5.76	14.51	0.0687196	4.38	16.48	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-23R	SAMPLED BY: Trevor Brown		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE: W-23R-2023-Q2-Dup	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666	REMARKS:				
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: <b>pH:</b> + 1.0 units <b>Temperature:</b> + 3% <b>Specific Conductance:</b> + 3% <b>Dissolved Oxygen:</b> optionally, + 0.2 mg/L or + 10% (whichever is greater) <b>ORP:</b> + 10 mV <b>Turbidity:</b> all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-24</b>	SAMPLE ID: W-24-2023-Q2	DATE: 4/18/2023 2:33:00 PM		
TOTAL WELL DEPTH (feet) (A): 17.12	WATER TABLE DEPTH (feet) (B): 6.39	LENGTH OF WATER COLUMN (feet) (A-B): 10.73		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 10.00 - 15.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.75		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14.12	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/18/2023 1:35:00 PM	PURGING END TIME: 4/18/2023 2:31:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:36 PM	0		6.42	78.9	5.49	26.51	38.5421	3.37	48.26	Clear	None
1:41 PM	0.8	0.16	6.43	97.3	4.84	19.58	40.9861	0.33	7.48	Clear	None
1:46 PM	1.6	0.16	6.43	88.6	4.74	19.32	41.527	0.29	6.13	Clear	None
1:51 PM	2.4	0.16	6.43	83.9	4.78	19.45	44.5721	0.38	7.52	Clear	None
1:56 PM	3.2	0.16	6.43	80.8	4.8	19.65	45.0667	0.32	16.91	Clear	None
2:01 PM	4	0.16	6.43	70.4	4.89	19.97	47.1084	0.41	29.4	Clear	None
2:06 PM	4.6	0.12	6.43	42.7	5.05	19.49	49.7095	0.49	36.44	Clear	None
2:11 PM	5.2	0.12	6.43	51.5	4.98	19.31	49.7204	0.47	14.36	Clear	None
2:17 PM	5.8	0.12	6.43	42.8	5.01	19.22	51.4562	0.5	19.21	Clear	None
2:22 PM	6.4	0.12	6.43	41.6	5.01	19.23	50.9333	0.44	12.47	Clear	None
2:31 PM	7	0.12	6.43	33.6	5.09	19.06	51.3718	0.49	12.23	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-24</b>	SAMPLED BY: Crewsre@westinghouse, Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134	REMARKS:				
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Alpha,Gross Beta,Tc-99,ISO U HASL,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-25</b>	SAMPLE ID: W-25-2023-Q2	DATE: 4/21/2023 12:20:00 PM		
TOTAL WELL DEPTH (feet) (A): 29.75	WATER TABLE DEPTH (feet) (B): 7.53	LENGTH OF WATER COLUMN (feet) (A-B): 22.22		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 22.50 - 27.50 ft	CALCULATED SYSTEM VOLUME (gallons): 3.63		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 26.75	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/21/2023 11:30:00 AM	PURGING END TIME: 4/21/2023 12:18:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:33 AM	0		7.57	-45.1	6.38	20.17	80.8508	4.71	19.6	Clear	None
11:38 AM	0.6	0.12	7.57	-60.1	6.1	18.3	66.2493	0.59	21.1	Clear	None
11:43 AM	1.1	0.1	7.57	-89.3	6.12	18.28	68.4573	0.58	20.94	Clear	None
11:48 AM	1.6	0.1	7.57	-101	6.14	18.21	69.6811	0.42	13.58	Clear	None
11:53 AM	2.1	0.1	7.57	-115	6.16	18.24	76.8256	0.33	14.74	Clear	None
11:58 AM	2.6	0.1	7.57	-127.7	6.17	18.29	82.5497	0.27	18.61	Clear	None
12:03 PM	3.1	0.1	7.57	-146.4	6.2	18.51	91.5825	0.24	18.37	Clear	None
12:08 PM	3.6	0.1	7.57	-158.4	6.22	18.43	101.648	0.21	16.1	Clear	None
12:13 PM	4.1	0.1	7.57	-164.8	6.22	18.49	104.1	0.18	17.88	Clear	None
12:18 PM	4.6	0.1	7.57	-167.1	6.23	18.39	104.027	0.17	16.73	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-25	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-26</b>	SAMPLE ID: W-26-2023-Q2	DATE: 4/17/2023 1:03:00 PM		
TOTAL WELL DEPTH (feet) (A): 32.25	WATER TABLE DEPTH (feet) (B): 24.37	LENGTH OF WATER COLUMN (feet) (A-B): 7.88		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 25.50 - 30.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.29		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 29.25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/17/2023 12:31:00 PM	PURGING END TIME: 4/17/2023 1:01:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:36 PM	0		24.43	13.1	6.78	22.79	198.455	4.2	9.19	Clear	None
12:41 PM	0.6	0.12	24.43	80	5.62	19.14	194.603	0.92	0.36	Clear	None
12:46 PM	1.2	0.12	24.43	76	5.49	18.65	192.494	0.66	0	Clear	None
12:51 PM	1.8	0.12	24.43	77.5	5.45	18.53	191.067	0.47	0	Clear	None
12:56 PM	2.4	0.12	24.43	75.8	5.46	18.44	192.194	0.4	0	Clear	None
1:01 PM	3	0.12	24.43	71.1	5.48	18.43	188.478	0.39	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-26</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Alpha,Gross Beta,Tc-99,ISO U HASL,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL
2	250 ml	Amber Glass	None	SVOCs	Pace

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-27</b>	SAMPLE ID: W-27-2023-Q2	DATE: 4/20/2023 10:07:00 AM		
TOTAL WELL DEPTH (feet) (A): 16.81	WATER TABLE DEPTH (feet) (B): 9.58	LENGTH OF WATER COLUMN (feet) (A-B): 7.23		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 10.00 - 15.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.18		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/20/2023 9:28:00 AM	PURGING END TIME: 4/20/2023 9:55:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:30 AM	0	0.08	9.87	19.7	7.89	17.75	0.0637804	9.13	0	Clear	None
9:35 AM	0.4	0.08	9.98	31.4	7.9	17.43	0.0642303	9.06	0	Clear	None
9:40 AM	0.8	0.08	10.01	40.8	7.91	17.39	0.0642929	9.06	0	Clear	None
9:45 AM	1.2	0.08	10.03	45.4	7.91	17.41	0.0642617	9.05	0	Clear	None
9:50 AM	1.6	0.08	10.04	50.1	7.88	17.48	0.0638462	9.03	0	Clear	None
9:55 AM	2	0.08	10.05	43.6	7.86	17.55	0.0638788	8.99	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-27	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-28</b>	SAMPLE ID: W-28-2023-Q2	DATE: 4/6/2023 11:25:00 AM		
TOTAL WELL DEPTH (feet) (A): 17.25	WATER TABLE DEPTH (feet) (B): 12.95	LENGTH OF WATER COLUMN (feet) (A-B): 4.30		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 10.00 - 15.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.70		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14.25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/6/2023 10:43:00 AM	PURGING END TIME: 4/6/2023 11:25:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:45 AM	0	0.1	12.01	154.2	6.52	29.17	465.838	4.4	0	Clear	None
10:50 AM	0.5	0.1	12.02	179.5	6.52	20.71	492.392	4.7	0	Clear	None
10:55 AM	1.5	0.1	12.03	201.4	6.34	20.52	502.713	4.5	0	Clear	None
11:00 AM	3	0.1	12.03	218.9	6.26	20.44	502.333	4.46	0	Clear	None
11:05 AM	5	0.1	12.03	230.5	6.22	20.25	508.461	4.35	0	Clear	None
11:10 AM	7.5	0.1	12.04	240.5	6.22	20.23	509.394	4.31	0	Clear	None
11:15 AM	10.5	0.1	12.04	247.6	6.23	20.18	508.956	4.32	0	Clear	None
11:20 AM	14	0.1	12.04	252.8	6.24	20.28	513.092	4.24	0	Clear	None
11:25 AM	18	0.1	12.04	257	6.26	20.24	510.616	4.27	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-28	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-29</b>	SAMPLE ID: W-29-2023-Q2	DATE: 4/6/2023 2:00:00 PM		
TOTAL WELL DEPTH (feet) (A): 15.59	WATER TABLE DEPTH (feet) (B): 11.78	LENGTH OF WATER COLUMN (feet) (A-B): 3.81		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 9.00 - 14.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.62		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/6/2023 1:24:00 PM	PURGING END TIME: 4/6/2023 1:56:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:26 PM	0		11.8	-43.3	6.23	30.54	0.0496874	4.05	1.16	Clear	None
1:31 PM	0.8	0.16	11.8	-93.8	6.13	20.67	352.767	0.5	0	Clear	None
1:36 PM	1.6	0.16	11.8	-97.5	6.07	20.33	360.5	0.34	0	Clear	None
1:41 PM	2.4	0.16	11.8	-104.6	6.08	20.07	361.889	0.24	0	Clear	None
1:46 PM	3.2	0.16	11.8	-111.2	6.18	20.21	374.249	0.21	0	Clear	None
1:51 PM	4	0.16	11.8	-113.9	6.24	20.25	374.724	0.22	0.06	Clear	N
1:56 PM	4.8	0.16	11.8	-119.7	6.32	20.28	384.131	0.21	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-29	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-30</b>	SAMPLE ID: W-30-2023-Q2	DATE: 4/11/2023 11:02:00 AM		
TOTAL WELL DEPTH (feet) (A): 16.75	WATER TABLE DEPTH (feet) (B): 11.72	LENGTH OF WATER COLUMN (feet) (A-B): 5.03		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 10.00 - 15.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.82		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13.75	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/11/2023 10:24:00 AM	PURGING END TIME: 4/11/2023 11:01:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:26 AM	0	0	11.73	-27.8	6.4	25.65	755.105	3.16	35.38	Clear	None
10:31 AM	0.7	0.14	11.73	-88.5	6.2	19.34	1184.33	0.52	0	Clear	None
10:36 AM	1.4	0.14	11.73	-103.2	6.21	19.27	1185.67	0.38	2.96	Clear	None
10:41 AM	2.1	0.14	11.73	-114.6	6.22	19.23	1184.03	0.29	0.3	Clear	None
10:46 AM	2.8	0.14	11.73	-120.9	6.22	19.27	1185.25	0.26	2.11	Clear	None
10:51 AM	3.5	0.14	11.73	-128.4	6.22	19.3	1185.48	0.23	1.13	Clear	None
10:56 AM	4.2	0.14	11.73	-132.9	6.22	19.33	1184.31	0.2	0.86	Clear	None
11:01 AM	4.9	0.14	11.73	-136.7	6.22	19.32	1184.53	0.18	1.62	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-30	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Alpha,Gross Beta,Tc-99,ISO U HASL,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-32</b>	SAMPLE ID: W-32-2023-Q2	DATE: 4/5/2023 11:54:00 AM		
TOTAL WELL DEPTH (feet) (A): 23.94	WATER TABLE DEPTH (feet) (B): 18.39	LENGTH OF WATER COLUMN (feet) (A-B): 5.55		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 17.00 - 22.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.91		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME:	PURGING END TIME:	PUMP TYPE:

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC. COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:36 AM	0	0.1	18.5	67	6.91	28.75	1456.56	1.17	0	Clear	None
11:41 AM	0.5	0.1	18.55	79	6.71	20.99	1494.17	0.28	0	Clear	None
11:46 AM	1.5	0.1	18.56	82	6.69	20.78	1492.84	0.2	0	Clear	None
11:51 AM	3	0.1	18.55	84.3	6.64	20.72	1484.87	0.2	0	Clear	None
11:56 AM	5	0.1	18.56	84	6.7	20.85	1480.93	0.16	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-32	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS,Gross Alpha,Gross Beta,Gross Alpha,Gross Beta,Gross Alpha,Gross Beta,Gamma Spec	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-33</b>	SAMPLE ID: W-33-2023-Q2	DATE: 4/14/2023 9:12:00 AM		
TOTAL WELL DEPTH (feet) (A): 21.10	WATER TABLE DEPTH (feet) (B): 14.77	LENGTH OF WATER COLUMN (feet) (A-B): 6.33		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 15.00 - 20.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.03		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 18.1	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/14/2023 8:50:00 AM	PURGING END TIME: 4/14/2023 9:12:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:52 AM	0	0.0008	14.83	176.7	6.66	18.6	135.233	2.52	0	Clear	None
8:57 AM	0.4	0.0008	14.82	201.6	6.53	17.89	138.031	1.14	0	Clear	None
9:02 AM	0.8	0.0008	14.82	212.6	6.41	17.83	137.838	1.08	0	Clear	None
9:07 AM	1.2	0.0008	14.82	213.1	6.42	17.83	138.819	1.04	0	Clear	None
9:12 AM	1.6	0.0008	14.82	213.5	6.42	17.81	140.607	1.01	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-33	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Alpha,Gross Beta,Tc-99,ISO U HASL,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-35</b>	SAMPLE ID: W-35-2023-Q2	DATE: 4/12/2023 10:15:00 AM		
TOTAL WELL DEPTH (feet) (A): 22.87	WATER TABLE DEPTH (feet) (B): 10.21	LENGTH OF WATER COLUMN (feet) (A-B): 12.66		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 15.50 - 20.50 ft	CALCULATED SYSTEM VOLUME (gallons): 2.07		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 19.87	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/12/2023 9:46:00 AM	PURGING END TIME: 4/12/2023 10:14:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:49 AM	0	0.08	10.22	183.5	6.74	15.53	92.0142	6.76	26.06	Clear	None
9:54 AM	0.4	0.08	10.23	203.1	6.45	17.59	93.8327	5.12	6.8	Clear	None
9:59 AM	0.8	0.08	10.23	207.5	6.47	17.81	95.6702	4.76	4.31	Clear	None
10:04 AM	1.2	0.08	10.23	210.5	6.47	17.83	99.4639	4.68	0	Clear	None
10:09 AM	1.6	0.08	10.23	212.6	6.47	17.89	99.6389	4.63	0.1	Clear	None
10:14 AM	2	0.08	10.23	213.6	6.46	18	97.5305	4.6	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-35	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-36</b>	SAMPLE ID: W-36-2023-Q2	DATE: 4/13/2023 9:38:00 AM		
TOTAL WELL DEPTH (feet) (A): 21.95	WATER TABLE DEPTH (feet) (B): 6.75	LENGTH OF WATER COLUMN (feet) (A-B): 15.20		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 15.00 - 20.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.48		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 18.95	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/13/2023 9:14:00 AM	PURGING END TIME: 4/13/2023 9:37:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:16 AM	0	0.08	7	123	6.27	28	30.3958	1.91	15.02	Clear	None
9:21 AM	0.4	0.08	7.23	194.9	6.38	19.26	45.699	0.61	1.11	Clear	None
9:26 AM	0.8	0.08	7.26	230.9	5.87	19.05	45.0648	0.53	0	Clear	None
9:31 AM	1.2	0.08	7.3	233.6	5.58	18.75	44.8477	0.44	0	Clear	None
9:37 AM	1.6	0.08	7.35	233	5.59	18.64	44.7777	0.4	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-36</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 #1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-37</b>	SAMPLE ID: W-37-2023-Q2	DATE: 4/11/2023 11:15:00 AM		
TOTAL WELL DEPTH (feet) (A): 22.75	WATER TABLE DEPTH (feet) (B): 10.72	LENGTH OF WATER COLUMN (feet) (A-B): 12.03		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 15.50 - 20.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.96		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 19.75	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/11/2023 10:43:00 AM	PURGING END TIME: 4/11/2023 11:15:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:45 AM	0	0.1	10.75	146.6	7.13	23.57	122.792	4.39	29.3	Clear	None
10:50 AM	0.5	0.1	10.75	196.3	6.66	20.1	125.853	3.82	0.15	Clear	None
10:55 AM	1	0.1	10.75	209.4	6.49	19.89	125.941	3.76	0	Clear	None
11:00 AM	1.5	0.1	10.75	215.1	6.19	19.95	126.104	3.73	0	Clear	None
11:05 AM	2	0.1	10.75	215.2	6.22	19.89	130.941	3.75	0	Clear	None
11:10 AM	2.5	0.1	10.75	216.1	6.21	19.82	130.919	3.73	0	Clear	None
11:15 AM	3	0.1	10.75	215	6.21	19.82	130.953	3.7	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-37</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-38</b>	SAMPLE ID: W-38-2023-Q2	DATE: 4/6/2023 1:15:00 PM		
TOTAL WELL DEPTH (feet) (A): 20.03	WATER TABLE DEPTH (feet) (B): 10.10	LENGTH OF WATER COLUMN (feet) (A-B): 9.93		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 15.00 - 20.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.62		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.03	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/6/2023 12:51:00 PM	PURGING END TIME: 4/6/2023 1:14:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:54 PM	0	0.1	10.23	207.1	5.39	27.45	149.75	3.05	0	Clear	None
12:59 PM	0.5	0.1	10.23	241.1	4.81	23.61	155.83	3.02	0	Clear	None
1:04 PM	1.5	0.1	10.23	242.3	4.75	23.49	156.016	2.96	0	Clear	None
1:09 PM	3	0.1	10.23	239.4	4.78	23.39	156.128	2.94	0	Clear	None
1:14 PM	5	0.1	10.23	237.1	4.81	23.37	156.096	2.92	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-38</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-39</b>	SAMPLE ID: W-39-2023-Q2	DATE: 4/10/2023 11:47:00 AM		
TOTAL WELL DEPTH (feet) (A): 25.26	WATER TABLE DEPTH (feet) (B): 14.85	LENGTH OF WATER COLUMN (feet) (A-B): 10.41		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 13.00 - 23.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.70		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 22.26	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/10/2023 10:59:00 AM	PURGING END TIME: 4/10/2023 11:46:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:01 AM	0	0.14	14.86	35.9	6.19	34.79	108.609	2.63	0	Clear	None
11:06 AM	0.7	0.14	14.86	24.2	5.61	19.63	552.241	1.45	0	Clear	None
11:11 AM	1.4	0.14	14.86	-2.8	5.5	19.27	562.862	1.26	0	Clear	None
11:16 AM	2.1	0.14	14.86	-15.8	5.46	19.51	571.447	1.11	0	Clear	None
11:21 AM	2.8	0.14	14.86	-24.5	5.46	19.43	575.997	1.1	0	Clear	None
11:26 AM	3.5	0.14	14.86	-30.9	5.48	19.46	580.52	1.1	0	Clear	None
11:31 AM	4.2	0.14	14.86	-37.3	5.5	19.44	583.728	1.09	0	Clear	None
11:36 AM	4.9	0.14	14.86	-43.7	5.54	19.31	584.793	1.1	0	Clear	None
11:41 AM	5.6	0.14	14.86	-49.6	5.57	19.43	586.339	1.08	0	Clear	None
11:46 AM	6.3	0.14	14.86	-52.7	5.6	19.48	589.024	1.12	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-39	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Alpha,Gross Beta,Tc-99,ISO U HASL,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-40</b>		SAMPLE ID: W-40-2023-Q2	DATE: 4/18/2023 12:09:00 PM	
TOTAL WELL DEPTH (feet) (A): 17.22		WATER TABLE DEPTH (feet) (B): 10.45	LENGTH OF WATER COLUMN (feet) (A-B): 6.77	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 4.50 - 14.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.10	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14.22	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/18/2023 11:09:00 AM	PURGING END TIME: 4/18/2023 12:07:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:12 AM	0		10.6	87.8	6.14	21.55	57.5999	6.56	125.38	Murky	None
11:17 AM	0.7	0.14	10.61	116.7	5.69	18.85	56.0411	6.65	128.73	Murky	None
11:22 AM	1.3	0.12	10.6	124.8	5.66	18.9	56.0557	6.33	124.9	Murky	None
11:27 AM	1.8	0.1	10.57	117	5.79	19.35	56.2451	5.99	125.16	Murky	None
11:32 AM	2.3	0.1	10.55	104.1	5.99	19.75	55.9819	5.76	123.79	Murky	Non
11:37 AM	2.7	0.08	10.52	97.5	6.06	19.54	55.3031	5.78	118.62	Clearing	None
11:42 AM	3.1	0.08	10.52	95.3	6.1	19.69	55.5189	5.82	116.94	Clearing	None
11:47 AM	3.5	0.08	10.52	90.6	6.15	20.01	55.4834	5.66	114.01	Clearing	None
11:52 AM	3.9	0.08	10.52	87.9	6.17	20.29	55.5267	5.65	110.61	Clearing	None
11:57 AM	4.3	0.08	10.52	89.9	6.18	20.02	54.7005	5.67	107.34	Clearing	None
12:02 PM	4.7	0.08	10.52	86.9	6.12	19.36	55.0529	5.55	96.99	Clearing	None
12:07 PM	5.1	0.08	10.52	85.6	6.12	19.33	55.4434	5.43	103.5	Clearing	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-40</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-41R</b>	SAMPLE ID: W-41R-2023-Q2	DATE: 4/14/2023 10:11:00 AM		
TOTAL WELL DEPTH (feet) (A): 27.12	WATER TABLE DEPTH (feet) (B): 15.09	LENGTH OF WATER COLUMN (feet) (A-B): 12.03		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 14.50 - 24.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.96		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 24.12	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/14/2023 9:47:00 AM	PURGING END TIME: 4/14/2023 10:09:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:49 AM	0	0.014	15.16	101.4	5.77	22.8	229.876	6.96	8.46	Clear	None
9:54 AM	0.7	0.14	15.17	109.8	5.57	18.69	225.708	6.02	0	Clear	None
9:59 AM	1.4	0.14	15.18	115.4	5.61	18.61	228.416	6.16	0	Clear	None
10:04 AM	2.1	0.14	15.19	118.4	5.64	18.42	226.39	6.08	0	Clear	None
10:09 AM	2.8	0.14	15.2	119.1	5.64	18.46	228.597	6.09	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-41R</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Alpha,Gross Beta,Tc-99,ISO U HASL,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL
2	250 ml	Amber Glass	None	SVOCs	Pace

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-42</b>	SAMPLE ID: W-42-2023-Q2	DATE: 4/14/2023 11:25:00 AM		
TOTAL WELL DEPTH (feet) (A): 32.94	WATER TABLE DEPTH (feet) (B): 23.38	LENGTH OF WATER COLUMN (feet) (A-B): 9.56		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 20.00 - 30.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.56		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 19.94	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/14/2023 10:49:00 AM	PURGING END TIME: 4/14/2023 11:25:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:55 AM	0	0.0008	23.53	157.3	5.54	20.48	51.0128	2.33	0	Clear	None
11:00 AM	0.4	0.0008	23.6	234.8	4.9	19.71	50.081	2.35	0	Clear	None
11:05 AM	0.8	0.0008	23.62	251.8	4.71	19.86	49.3754	2.25	0	Clear	None
11:10 AM	1.2	0.0008	23.63	248.9	4.79	20.1	48.9467	2.18	0	Clear	None
11:15 AM	1.6	0.0008	23.62	237.6	5.01	20.32	48.7951	2.22	0	Clear	None
11:20 AM	2	0.0008	23.62	237.3	5.04	20.35	49.4441	2.22	0	Clear	None
11:25 AM	2.4	0.0008	23.62	232.8	5.14	20.78	49.2692	2.15	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-42</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-43</b>	SAMPLE ID: W-43-2023-Q2	DATE: 4/14/2023 9:06:00 AM		
TOTAL WELL DEPTH (feet) (A): 24.27	WATER TABLE DEPTH (feet) (B): 11.09	LENGTH OF WATER COLUMN (feet) (A-B): 13.18		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 11.00 - 21.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.15		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21.27	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/14/2023 8:38:00 AM	PURGING END TIME: 4/14/2023 9:04:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:39 AM	0		11.11	24.4	6.42	20.44	16.0519	7.26	0	Clear	None
8:44 AM	0.7	0.14	11.11	110.6	5.36	18.23	109.24	5.23	0	Clear	None
8:49 AM	1.4	0.14	11.11	129	5.35	18.2	109.104	5.1	0	Clear	None
8:54 AM	2.1	0.14	11.11	136.4	5.36	18.26	109.17	5.08	2.82	Clear	None
8:59 AM	2.8	0.14	11.11	139.6	5.36	18.22	108.509	5.04	4.93	Clear	None
9:04 AM	3.5	0.14	11.11	140.6	5.35	18.2	108.428	5.04	12.74	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-43	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Alpha,Gross Beta,Tc-99,ISO U HASL,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-44</b>	SAMPLE ID: W-44-2023-Q2	DATE: 4/14/2023 12:26:00 PM		
TOTAL WELL DEPTH (feet) (A): 29.98	WATER TABLE DEPTH (feet) (B): 17.82	LENGTH OF WATER COLUMN (feet) (A-B): 12.16		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 17.00 - 27.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.98		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 26.98	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/14/2023 12:01:00 PM	PURGING END TIME: 4/14/2023 12:24:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:04 PM	0	0.14	17.91	103.3	5.33	23.44	81.7408	6.03	0	Clear	None
12:09 PM	0.7	0.14	17.92	134.1	4.96	17.84	81.7892	4.44	0	Clear	None
12:14 PM	1.4	0.14	17.92	144.2	4.9	17.57	81.8594	4.48	0	Clear	None
12:19 PM	2.1	0.14	17.92	145.6	4.92	17.43	82.1822	4.35	0	Clear	None
12:24 PM	2.8	0.14	17.92	145.2	4.98	17.44	82.2538	4.29	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-44</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Alpha,Gross Beta,Tc-99,ISO U HASL,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-45</b>	SAMPLE ID: W-45-2023-Q2	DATE: 4/12/2023 11:30:00 AM		
TOTAL WELL DEPTH (feet) (A): 18.21	WATER TABLE DEPTH (feet) (B): 11.42	LENGTH OF WATER COLUMN (feet) (A-B): 6.79		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 5.50 - 15.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.11		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/12/2023 11:07:00 AM	PURGING END TIME: 4/12/2023 11:30:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:10 AM	0	0.08	11.45	73.9	6.59	20.28	94.9815	1.26	40.72	Clear	None
11:15 AM	0.4	0.08	11.45	110.6	6.45	18.99	89.9755	0.28	20.98	Clear	None
11:20 AM	0.8	0.08	11.45	120.6	6.38	19.18	89.0716	0.23	12.99	Clear	None
11:25 AM	1.2	0.08	11.45	121.6	6.46	19.32	88.8375	0.18	14.45	Clear	None
11:30 AM	1.6	0.08	11.45	122.3	6.58	19.39	86.7018	0.17	5.03	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-45</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE: W-45-2023-Q2-DUP	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666	REMARKS:				
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-46</b>	SAMPLE ID: W-46-2023-Q2	DATE: 4/14/2023 12:34:00 PM		
TOTAL WELL DEPTH (feet) (A): 28.17	WATER TABLE DEPTH (feet) (B): 13.00	LENGTH OF WATER COLUMN (feet) (A-B): 15.17		
CASING DIAMETER / MATL: 4 in, PVC	WELL SCREEN INTERVAL DEPTH: 16.00 - 26.00 ft	CALCULATED SYSTEM VOLUME (gallons): 9.90		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/14/2023 11:54:00 AM	PURGING END TIME: 4/14/2023 12:33:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:58 AM	0	0.0008	13.11	157.7	5.98	23.35	183.545	2.55	0	Clear	None
12:03 PM	0	0.0008	13.36	244.3	5.48	18.66	195.632	2.35	0	Clear	None
12:08 PM	0.4	0.0008	13.52	267.6	5.38	18.65	195.933	2.3	0	Clear	None
12:13 PM	0.8	0.0008	13.64	287.4	5.26	18.44	196.14	2.26	0	Clear	None
12:18 PM	1.2	0.0008	13.78	307	5.16	18.36	196.001	2.23	0	Clear	None
12:23 PM	1.6	0.0008	13.91	318.5	5.08	18.18	195.549	2.2	0	Clear	None
12:28 PM	2	0.0008	13.97	319.7	5.06	18.22	195.454	2.21	0	Clear	None
12:33 PM	2.4	0.0008	19.03	324.8	5.06	18.25	195.361	2.2	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-46</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-47</b>	SAMPLE ID: W-47-2023-Q2	DATE: 4/13/2023 1:54:00 PM		
TOTAL WELL DEPTH (feet) (A): 46.80	WATER TABLE DEPTH (feet) (B): 25.12	LENGTH OF WATER COLUMN (feet) (A-B): 21.68		
CASING DIAMETER / MATL: 4 in, PVC	WELL SCREEN INTERVAL DEPTH: 34.50 - 44.50 ft	CALCULATED SYSTEM VOLUME (gallons): 14.15		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/13/2023 1:20:00 PM	PURGING END TIME: 4/13/2023 1:53:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:23 PM	0	0.08	25.18	136	6.04	24.8	590.927	1.22	58.19	Clear	None
1:28 PM	0.4	0.08	25.18	164.1	5.78	20.37	649.789	0.47	0	Clear	None
1:33 PM	0.8	0.08	25.18	172.1	5.69	19.84	652.365	0.27	0	Clear	None
1:38 PM	1.2	0.08	25.18	183.2	5.53	19.56	690.325	0.28	3.47	Clear	None
1:43 PM	1.6	0.08	25.18	192.6	5.39	19.4	689.018	0.2	0	Clear	None
1:48 PM	2	0.08	25.18	197	5.32	19.33	689.777	0.23	0	Clear	None
1:53 PM	2.4	0.08	25.18	196.1	5.33	19.42	689.843	0.32	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-47</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Alpha,Gross Beta,Tc-99,ISO U HASL,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-48</b>	SAMPLE ID: W-48-2023-Q2	DATE: 4/17/2023 2:12:00 PM		
TOTAL WELL DEPTH (feet) (A): 45.80	WATER TABLE DEPTH (feet) (B): 25.10	LENGTH OF WATER COLUMN (feet) (A-B): 20.70		
CASING DIAMETER / MATL: 4 in, PVC	WELL SCREEN INTERVAL DEPTH: 31.50 - 41.50 ft	CALCULATED SYSTEM VOLUME (gallons): 13.51		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42.8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/17/2023 1:46:00 PM	PURGING END TIME: 4/17/2023 2:10:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:50 PM	0		25.16	64	5.82	19.84	119.865	4.5	92.65	Clear	None
1:55 PM	0.7	0.14	25.24	70.7	5.44	18.71	134.061	0.79	17.56	Clear	None
2:00 PM	1.4	0.14	25.25	69.7	5.45	18.69	134.068	0.51	13.42	Clear	None
2:05 PM	2.1	0.14	25.27	68.6	5.47	18.68	134.06	0.43	8.98	Clear	None
2:10 PM	2.8	0.14	25.29	68	5.48	18.7	133.991	0.39	0.16	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-48</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Tritium	GEL
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Gross Alpha,Gross Beta,Tc-99,ISO U HASL,ISO & TOTAL U ICPMS,GAMMA SPEC	GEL
2	250 ml	Amber Glass	None	SVOCs	Pace

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-49</b>	SAMPLE ID: W-49-2023-Q2	DATE: 4/14/2023 10:29:00 AM		
TOTAL WELL DEPTH (feet) (A): 119.94	WATER TABLE DEPTH (feet) (B): 26.04	LENGTH OF WATER COLUMN (feet) (A-B): 93.90		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 108.00 - 118.00 ft	CALCULATED SYSTEM VOLUME (gallons): 15.32		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 115.94	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/14/2023 9:55:00 AM	PURGING END TIME: 4/14/2023 10:28:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:58 AM	0	0.0008	26.04	152.1	6.36	22.98	43.2317	3.67	0	Clear	None
10:03 AM	0.4	0.0008	26.04	47.1	6.42	19.88	37.9963	0.73	218.04	Light brown	None
10:08 AM	0.8	0.0008	26.04	65.9	6.02	19.86	32.0929	0.48	53.6	Clear	None
10:13 AM	1.2	0.0008	26.04	62.5	6.04	20	31.2314	0.41	33.04	Clear	None
10:18 AM	1.6	0.0008	26.04	60.3	5.95	19.98	31.9379	0.31	18.24	Clear	None
10:23 AM	2	0.0008	26.04	62	5.94	19.66	32.0391	0.27	19.56	Clear	None
10:28 AM	2.4	0.0008	26.04	63.2	5.83	20.06	32.0672	0.25	9.72	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-49</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-50</b>		SAMPLE ID: W-50-2023-Q2	DATE: 4/18/2023 10:52:00 AM	
TOTAL WELL DEPTH (feet) (A): 128.50		WATER TABLE DEPTH (feet) (B): 21.45	LENGTH OF WATER COLUMN (feet) (A-B): 107.05	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 115.00 - 125.00 ft		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 123.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/18/2023 9:52:00 AM	PURGING END TIME: 4/18/2023 10:50:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:55 AM	0	0.14	121.46	-155.3	6.95	17.15	19.9523	6.8	1.4		
10:00 AM	0.7	0.14	121.48	-104.3	5.08	19.33	27.9578	0.94	411.79	Clear	None
10:05 AM	1.4	0.14	121.48	-24.9	5.01	19.73	27.5032	0.63	181.09	Clear	None
10:10 AM	2.1	0.14	121.48	5.2	5	20.09	27.4513	0.44	104.44	Clear	None
10:15 AM	2.8	0.14	121.48	13.8	5	20.35	27.3389	0.36	94.24	Clear	None
10:20 AM	3.5	0.14	121.48	15.4	5	20.46	27.3677	0.31	70.73	Clear	None
10:25 AM	4.2	0.14	121.48	18.2	5.01	20.63	27.3407	0.29	54.4	Clear	None
10:30 AM	4.9	0.14	121.48	15.5	5	20.77	27.3369	0.28	45.77	Clear	None
10:35 AM	5.6	0.14	121.48	20.9	5.01	20.88	27.2994	0.33	41.45	Clear	None
10:40 AM	6.3	0.14	121.48	21.9	5.01	21.08	27.2994	0.27	37.09	Clear	None
10:45 AM	7	0.14	121.48	27.9	5.02	21.18	27.145	0.24	38.9	Clear	None
10:50 AM	7.7	0.14	121.48	34.9	5.02	21.36	27.1328	0.22	36.51	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-50	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-51</b>	SAMPLE ID: W-51-2023-Q2	DATE: 4/12/2023 12:36:00 PM		
TOTAL WELL DEPTH (feet) (A): 14.55	WATER TABLE DEPTH (feet) (B): 7.80	LENGTH OF WATER COLUMN (feet) (A-B): 6.75		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 9.50 - 14.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.10		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 11.55	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/12/2023 12:14:00 PM	PURGING END TIME: 4/12/2023 12:36:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:16 PM	0	0.08	7.82	-148.7	6.82	24.16	181.34	0.7	77.76	Cloudy	None
12:21 PM	0.4	0.08	7.82	-141.1	6.75	20.51	194.057	0.18	20.59	Clear	None
12:26 PM	0.8	0.08	7.82	-140.9	6.54	20.41	194.429	0.13	13.72	Clear	None
12:31 PM	1.2	0.08	7.82	-143.5	6.48	20.43	194.882	0.11	5.53	Clear	None
12:36 PM	1.6	0.08	7.82	-147.2	6.44	20.3	195.095	0.08	3.48	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-51	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-52</b>	SAMPLE ID: W-52-2023-Q2	DATE: 4/11/2023 3:05:00 PM		
TOTAL WELL DEPTH (feet) (A): 15.10	WATER TABLE DEPTH (feet) (B): 7.66	LENGTH OF WATER COLUMN (feet) (A-B): 7.44		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 10.50 - 15.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.21		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.1	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/11/2023 2:22:00 PM	PURGING END TIME: 4/11/2023 3:04:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
2:24 PM	0	0.1	7.68	75.7	6.59	29.38	96.0911	4.29	10.21	Clear	None
2:29 PM	0.5	0.1	7.68	108.8	6.6	20.91	224.996	3.44	0	Clear	None
2:34 PM	1	0.1	7.68	79.8	6.47	20.8	214.21	2.69	0	Clear	None
2:39 PM	1.5	0.1	7.68	43.2	6.47	20.82	204.024	2.19	0	Clear	None
2:44 PM	2	0.1	7.68	36.5	6.48	20.77	195.697	1.8	0	Clear	None
2:49 PM	2.5	0.1	7.68	29.1	6.52	20.74	193.274	1.72	0	Clear	None
2:54 PM	3	0.1	7.68	24	6.49	20.76	186.943	1.5	0	Clear	None
2:59 PM	3.5	0.1	7.68	23	6.52	20.83	189.377	1.6	0	Clear	None
3:04 PM	4	0.1	7.68	16.7	6.52	20.78	186.583	1.45	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-52</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-53</b>	SAMPLE ID: W-53-2023-Q2	DATE: 4/11/2023 12:53:00 PM		
TOTAL WELL DEPTH (feet) (A): 15.45	WATER TABLE DEPTH (feet) (B): 8.15	LENGTH OF WATER COLUMN (feet) (A-B): 7.30		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 11.00 - 16.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.19		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.45	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/11/2023 12:30:00 PM	PURGING END TIME: 4/11/2023 12:52:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:32 PM	0	0.1	8.21	52.9	6.12	32.97	87.0111	1.95	74.67	Clear	None
12:37 PM	0.5	0.1	8.2	75.5	5.64	20.55	121.993	0.25	8.95	Clear	None
12:42 PM	1	0.1	8.2	87.9	5.4	20.37	121.957	0.16	11.13	Clear	None
12:47 PM	1.5	0.1	8.2	91.1	5.33	20.27	122.357	0.12	4.71	Clear	None
12:52 PM	2	0.1	8.2	91.2	5.33	20.15	121.981	0.1	0.14	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-53	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-54</b>		SAMPLE ID: W-54-2023-Q2	DATE: 4/11/2023 12:10:00 PM	
TOTAL WELL DEPTH (feet) (A): 15.61		WATER TABLE DEPTH (feet) (B): 8.18	LENGTH OF WATER COLUMN (feet) (A-B): 7.43	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 11.00 - 16.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.21	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.61	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/11/2023 11:36:00 AM	PURGING END TIME: 4/11/2023 12:08:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mV)	pH (SU)	TEMP (degC)	SPEC.COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:38 AM	0	0.1	8.18	182.6	6.38	21.81	116.086	2.57	0	Clear	None
11:43 AM	0.5	0.1	8.18	164.8	6.48	20.37	119.172	1.35	0	Clear	None
11:48 AM	1	0.1	8.18	152.3	6.63	20.42	120.832	1.54	0	Clear	None
11:53 AM	1.5	0.1	8.18	144.8	6.66	20.6	122.322	1.43	0	Clear	None
11:58 AM	2	0.1	8.18	134	6.73	20.66	122.581	1.29	0	Clear	None
12:03 PM	2.5	0.1	8.18	131.1	6.8	20.76	124.879	1.25	0	Clear	None
12:08 PM	3	0.1	8.18	139.6	6.66	20.81	122.151	1.33	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-54</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-55</b>	SAMPLE ID: W-55-2023-Q2	DATE: 4/4/2023 1:17:00 PM		
TOTAL WELL DEPTH (feet) (A): 15.05	WATER TABLE DEPTH (feet) (B): 8.82	LENGTH OF WATER COLUMN (feet) (A-B): 6.23		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 10.00 - 15.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.02		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME:	PURGING END TIME:	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:41 PM	0	0.12	8.82	64	6.01	24.67	127.207	4.99	7.73	Clear	None
12:46 PM	0.6	0.12	8.83	52.7	5.75	21.79	126.28	3.58	1.55	Clear	None
12:51 PM	1.2	0.12	8.83	33.4	5.76	24.84	127.563	3.52	0	Clear	None
12:56 PM	1.8	0.12	8.83	18.2	5.81	21.27	127.865	3.54	0.04	Clear	None
1:01 PM	2.4	0.12	8.83	8.8	5.85	21.21	128.294	3.49	2.35	Clear	None
1:06 PM	3	0.12	8.84	2.1	5.89	21.08	129.747	3.44	0.09	Clear	None
1:11 PM	3.6	0.12	8.84	-3.7	5.93	21.28	128.899	3.38	0.77	Clear	None
1:16 PM	4.2	0.12	8.84	-7.4	5.96	21.25	130.015	3.37	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-55</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-56</b>	SAMPLE ID: W-56-2023-Q2	DATE: 4/4/2023 11:28:00 AM		
TOTAL WELL DEPTH (feet) (A): 15.05	WATER TABLE DEPTH (feet) (B): 8.93	LENGTH OF WATER COLUMN (feet) (A-B): 6.12		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 10.00 - 15.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.00		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME:	PURGING END TIME:	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. ( $\mu$ s/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:07 AM	0.5	0.1	9.02	7.1	5.92	21.76	133.626	2.96	2.33	Clear	None
11:12 AM	1.1	0.12	9.02	-1.2	5.83	20.52	132.24	2.5	0	Clear	None
11:17 AM	1.8	0.14	9.02	-5.9	5.84	20.64	131.946	2.4	0	Clear	None
11:22 AM	2.5	0.14	9.02	-10.4	5.86	20.64	131.638	2.4	0	Clear	None
11:27 AM	3.2	0.14	9.02	-14.3	5.92	20.74	131.84	2.33	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-56</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134	REMARKS:				
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-57</b>	SAMPLE ID: W-57-2023-Q2	DATE: 4/11/2023 8:54:00 AM		
TOTAL WELL DEPTH (feet) (A): 15.00	WATER TABLE DEPTH (feet) (B): 9.07	LENGTH OF WATER COLUMN (feet) (A-B): 5.93		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 10.00 - 15.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.97		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/11/2023 8:21:00 AM	PURGING END TIME: 4/11/2023 8:54:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:24 AM	0	0.1	9.18	98.4	6.06	17.68	145.549	1.91	0	Clear	None
8:29 AM	0.5	0.1	9.15	132.8	6.15	18.88	137.073	1.35	0	Clear	None
8:34 AM	0.9	0.08	9.15	148.5	6.18	19.05	132.271	1.23	0	Clear	None
8:39 AM	1.3	0.08	9.15	157.5	6.21	19.19	130.095	1.16	0	Clear	None
8:44 AM	1.7	0.08	9.15	162.6	6.24	19.32	127.128	1.11	0	Clear	None
8:49 AM	2.1	0.08	9.15	168.1	6.25	19.42	127.089	1.13	0	Clear	None
8:54 AM	2.5	0.08	9.15	171.9	6.25	19.46	127.154	1.08	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-57</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-58</b>	SAMPLE ID: W-58-2023-Q2	DATE: 4/6/2023 2:04:00 PM		
TOTAL WELL DEPTH (feet) (A): 15.05	WATER TABLE DEPTH (feet) (B): 10.40	LENGTH OF WATER COLUMN (feet) (A-B): 4.65		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 10.50 - 15.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.76		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.05	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/6/2023 1:34:00 PM	PURGING END TIME: 4/6/2023 2:00:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:40 PM	0	0.1	10.45	181.3	6.38	32.14	242.898	1.19	0	Clear	None
1:45 PM	0.5	0.1	10.47	200	5.98	22.44	258.034	0.16	0	Clear	None
1:50 PM	2	0.1	10.48	199	5.91	22.35	255.304	0.13	0	Clear	None
1:55 PM	4	0.1	10.48	197.3	5.88	22.33	257.691	0.11	0	Clear	None
2:00 PM	6.5	0.1	10.48	193.5	5.9	22.39	256.728	0.1	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-58</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-59</b>	SAMPLE ID: W-59-2023-Q2	DATE: 4/4/2023 10:34:00 AM		
TOTAL WELL DEPTH (feet) (A): 15.01	WATER TABLE DEPTH (feet) (B): 10.52	LENGTH OF WATER COLUMN (feet) (A-B): 4.49		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 9.50 - 14.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.73		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME:	PURGING END TIME:	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mV)	pH (SU)	TEMP (degC)	SPEC.COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:58 AM	0	0.16	10.57	28.6	6.08	22.51	766.732	1.63	0	Clear	None
10:03 AM	0.8	0.16	10.7	-1.6	6	20.04	746.248	0.4	0	Clear	None
10:08 AM	1.4	0.12	10.73	-20.7	6.07	19.96	723.661	0.61	0	Clear	None
10:13 AM	2	0.12	10.77	-33	6.05	19.96	741.385	0.46	0	Clear	None
10:18 AM	2.6	0.12	10.77	-42.5	6.05	20	739.08	0.43	0	Clear	None
10:23 AM	3.2	0.12	10.78	-49.5	6.04	20.02	747.826	0.37	0	Clear	None
10:28 AM	3.8	0.12	10.78	-55.2	6.04	20.06	756.467	0.32	0	Clear	None
10:33 AM	4.4	0.12	10.78	-60.8	6.03	20.08	768.428	0.26	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-59</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134	REMARKS:				
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-60</b>	SAMPLE ID: W-60-2023-Q2	DATE: 4/10/2023 1:07:00 PM		
TOTAL WELL DEPTH (feet) (A): 40.80	WATER TABLE DEPTH (feet) (B): 22.26	LENGTH OF WATER COLUMN (feet) (A-B): 18.54		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 33.00 - 38.00 ft	CALCULATED SYSTEM VOLUME (gallons): 3.03		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 37.8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/10/2023 12:18:00 PM	PURGING END TIME: 4/10/2023 1:06:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:21 PM	0		22.28	-26.4	5.76	18.84	0	3.83	280.3	Clear	None
12:26 PM	0.6	0.12	22.28	-34.5	5.5	18.02	98.8414	2.79	148.78	Clear	None
12:31 PM	1.2	0.12	22.28	-74.4	5.44	17.81	98.8636	0.46	108.38	Clear	None
12:36 PM	1.8	0.12	22.28	-87	5.45	17.71	98.7834	0.32	76.6	Clear	None
12:41 PM	2.4	0.12	22.28	-97.6	5.49	17.73	98.7554	0.25	63.54	Clear	None
12:46 PM	3	0.12	22.28	-109.8	5.54	17.7	99.337	0.18	58.55	Clear	None
12:51 PM	3.6	0.12	22.28	-119.2	5.59	17.69	99.2777	0.19	36.01	Clear	None
12:56 PM	4.2	0.12	22.28	-127.8	5.62	17.65	99.3739	0.17	27.57	Clear	None
1:01 PM	4.8	0.12	22.28	-133.8	5.64	17.69	99.5215	0.17	25.03	Clear	None
1:06 PM	5.4	0.12	22.28	-137.2	5.67	17.68	99.5393	0.16	25.46	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-60</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-61</b>	SAMPLE ID: W-61-2023-Q2	DATE: 4/10/2023 2:09:00 PM		
TOTAL WELL DEPTH (feet) (A): 26.70	WATER TABLE DEPTH (feet) (B): 17.23	LENGTH OF WATER COLUMN (feet) (A-B): 9.47		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 13.50 - 23.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.55		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 23.75	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/10/2023 1:29:00 PM	PURGING END TIME: 4/10/2023 2:05:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:30 PM	0		17.68	-38.1	5.28	17.48	86.364	6.59	142.24	Clear	None
1:35 PM	0.5	0.1	17.82	-33.9	5.26	17.2	85.8699	4.31	26.16	Clear	None
1:40 PM	0.9	0.08	17.98	-35.9	5.26	17.16	85.8897	4.3	43.68	Clear	None
1:45 PM	1.3	0.08	18.08	-37.2	5.28	17.25	86.0871	4.37	17.73	Clear	None
1:50 PM	1.7	0.08	18.19	-37.6	5.3	17.34	86.327	4.48	12.65	Clear	None
1:55 PM	2.1	0.08	18.33	-37.9	5.32	17.54	86.4078	4.71	42.1	Clear	None
2:00 PM	2.5	0.08	18.47	-40.1	5.32	17.26	86.0107	4.35	64.81	Clear	None
2:05 PM	2.9	0.08	18.57	-43.5	5.31	17.38	86.3872	4.62	24.73	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-61	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-62</b>	SAMPLE ID: W-62-2023-Q2	DATE: 4/17/2023 10:30:00 AM		
TOTAL WELL DEPTH (feet) (A): 21.20	WATER TABLE DEPTH (feet) (B): 5.24	LENGTH OF WATER COLUMN (feet) (A-B): 15.96		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 20.00 - 25.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.60		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 18.2	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/17/2023 10:07:00 AM	PURGING END TIME: 4/17/2023 10:27:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:07 AM	0	0.1	5.38	132.5	6.37	17.6	0.0639957	8.95	0	Clear	None
10:12 AM	0.5	0.1	5.36	130.8	6.27	17.47	0.0641744	8.92	0	Clear	None
10:17 AM	1	0.1	5.38	139	6.27	17.61	0.0639786	8.85	0	Clear	None
10:22 AM	1.5	0.1	5.38	139.8	6.32	17.92	0.0635338	8.75	0	Clear	None
10:27 AM	2	0.1	5.38	139.6	6.34	18.33	0.0629709	8.66	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-62</b>	SAMPLED BY: Trevor Brown		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-63</b>	SAMPLE ID: W-63-2023-Q2	DATE: 4/18/2023 12:50:00 PM		
TOTAL WELL DEPTH (feet) (A): 44.06	WATER TABLE DEPTH (feet) (B): 25.56	LENGTH OF WATER COLUMN (feet) (A-B): 18.50		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 37.00 - 42.00 ft	CALCULATED SYSTEM VOLUME (gallons): 3.02		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 41.06	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/18/2023 12:22:00 PM	PURGING END TIME: 4/18/2023 12:47:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:22 PM	0	0.1	26.05	173	4.01	36.26	0.0452169	6.01	0	Clear	None
12:27 PM	0.6	0.12	26.27	180.9	4.08	30.16	0	6.6	0	Clear	None
12:32 PM	1.2	0.12	26.5	192.4	4.13	28.2	0	6.83	0	Clear	None
12:37 PM	1.8	0.12	26.62	197.6	4.15	26.8	0	7.01	0	Clear	None
12:42 PM	2.4	0.12	26.7	199.1	3.93	26.16	0	7.08	0	Clear	None
12:47 PM	3	0.12	26.75	197.6	4.13	25.74	0	7.13	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-63	SAMPLED BY: Trevor Brown		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-64</b>	SAMPLE ID: W-64-2023-Q2	DATE: 4/13/2023 2:10:00 PM		
TOTAL WELL DEPTH (feet) (A): 34.12	WATER TABLE DEPTH (feet) (B): 25.52	LENGTH OF WATER COLUMN (feet) (A-B): 8.60		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 21.50 - 31.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.40		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30.12	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/13/2023 1:45:00 PM	PURGING END TIME: 4/13/2023 2:08:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:48 PM	0		25.62	16.9	6.19	24.74	572.53	2.32	0	Clear	None
1:53 PM	0.6	0.12	25.62	78.4	5.81	19.94	704.304	0.33	0	Clear	None
1:58 PM	1.2	0.12	25.62	87.2	5.8	19.84	707.443	0.25	0	Clear	None
2:03 PM	1.8	0.12	25.62	87.8	5.82	19.7	706.981	0.22	0	Clear	None
2:08 PM	2.4	0.12	25.62	85	5.85	19.7	711.089	0.24	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-64</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134	REMARKS:				
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: <b>pH:</b> + 1.0 units <b>Temperature:</b> + 3% <b>Specific Conductance:</b> + 3% <b>Dissolved Oxygen:</b> optionally, + 0.2 mg/L or + 10% (whichever is greater) <b>ORP:</b> + 10 mV <b>Turbidity:</b> all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-65</b>		SAMPLE ID: W-65-2023-Q2	DATE: 4/7/2023 11:55:00 AM	
TOTAL WELL DEPTH (feet) (A): 34.48		WATER TABLE DEPTH (feet) (B): 12.96	LENGTH OF WATER COLUMN (feet) (A-B): 21.52	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 26.50 - 31.50 ft	CALCULATED SYSTEM VOLUME (gallons): 3.51	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 31.48	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/7/2023 10:55:00 AM	PURGING END TIME: 4/7/2023 11:53:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC. COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:58 AM	0	0.14	13.25	123.5	6.09	24.55	98.797	3.88	1.27	Clear	None
11:03 AM	0.7	0.14	13.31	160.6	5.82	20.88	104.407	1.41	0	Clear	None
11:08 AM	1.4	0.14	13.32	167.3	5.78	20.62	105.021	1.25	0	Clear	None
11:13 AM	2.1	0.14	13.33	157.8	5.88	20.74	104.805	1.19	0	Clear	None
11:18 AM	2.8	0.14	13.34	146.7	5.95	20.73	105.011	1.13	0	Clear	None
11:23 AM	3.5	0.14	13.35	135.2	6.01	20.64	104.733	1.05	0	Clear	None
11:28 AM	4.2	0.14	13.35	132.6	6.03	21.09	104.718	1	0	Clear	None
11:33 AM	4.9	0.14	13.35	121	6.04	20.86	102.92	0.96	0	Clear	None
11:38 AM	5.6	0.14	13.35	114.6	6.02	20.49	102.759	0.92	6.76	Clear	None
11:43 AM	6.3	0.14	13.35	100.2	6.01	20.76	102.105	0.91	8.12	Clear	None
11:48 AM	7	0.14	13.35	96.4	6.02	20.74	100.698	0.93	11.03	Clear	None
11:53 AM	7.7	0.14	13.35	87.5	6.02	20.7	98.8731	0.92	10.44	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-65</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-66</b>	SAMPLE ID: W-66-2023-Q2	DATE: 4/7/2023 12:37:00 PM		
TOTAL WELL DEPTH (feet) (A): 25.22	WATER TABLE DEPTH (feet) (B): 12.73	LENGTH OF WATER COLUMN (feet) (A-B): 12.49		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 12.50 - 22.50 ft	CALCULATED SYSTEM VOLUME (gallons): 2.04		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 22.22	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/7/2023 12:13:00 PM	PURGING END TIME: 4/7/2023 12:36:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:16 PM	0	0.14	12.74	51.9	5.56	27.59	78.0759	2	0.79	Clear	None
12:21 PM	0.7	0.14	12.74	60	5.12	20.88	78.1299	1.14	2.94	Clear	None
12:26 PM	1.4	0.14	12.74	76	4.95	20.6	78.2862	1.08	0.56	Clear	None
12:31 PM	2.1	0.14	12.74	85.8	4.96	20.4	79.3956	0.98	1.37	Clear	None
12:36 PM	2.8	0.14	12.74	84.1	5	20.45	79.2992	0.95	1.92	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-66</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-67</b>		SAMPLE ID: W-67-2023-Q2	DATE: 4/10/2023 11:30:00 AM	
TOTAL WELL DEPTH (feet) (A): 34.40		WATER TABLE DEPTH (feet) (B): 15.70	LENGTH OF WATER COLUMN (feet) (A-B): 18.70	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 22.00 - 32.00 ft		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 31.4	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/10/2023 10:56:00 AM	PURGING END TIME: 4/10/2023 11:28:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:58 AM	0	0.1	15.94	157.5	6.24	15.22	0.0675739	3.81	19.33	Clear	None
11:03 AM	0.5	0.1	15.92	155.1	6.27	16.01	0.0663379	0.69	16.83	Clear	None
11:08 AM	1	0.1	15.89	154.1	6.29	16.02	0.0663158	0.94	8.3	Clear	None
11:13 AM	1.5	0.1	15.88	156.6	6.3	16.05	0.0662727	2.45	5.28	Clear	None
11:18 AM	2	0.1	15.88	158.9	6.3	16.12	0.0661658	0.4	4.9	Clear	None
11:23 AM	2.5	0.1	15.88	159.7	6.3	16.18	0.0660815	0.29	4.72	Clear	None
11:28 AM	3	0.1	15.88	163.3	6.27	16.3	0.0658963	0.47	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-67</b>	SAMPLED BY: Trevor Brown		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-68</b>	SAMPLE ID: W-68-2023-Q2	DATE: 4/17/2023 9:34:00 AM		
TOTAL WELL DEPTH (feet) (A): 27.53	WATER TABLE DEPTH (feet) (B): 13.09	LENGTH OF WATER COLUMN (feet) (A-B): 14.44		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 13.00 - 18.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.36		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 24.53	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/17/2023 9:07:00 AM	PURGING END TIME: 4/17/2023 9:32:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:12 AM	0	0.1	13.13	155.6	6.27	18.27	0.0630456	6.47	0	Clear	None
9:17 AM	0.5	0.1	13.14	150.6	6.36	17.78	0.0637312	5.49	0	Clear	None
9:22 AM	1	0.1	13.14	149	6.34	17.56	0.064049	5.86	0	Clear	None
9:27 AM	1.5	0.1	13.14	153.1	6.36	17.36	0.0643281	6.4	0	Clear	None
9:32 AM	2	0.1	13.14	155.7	6.34	17.25	0.0644899	6.51	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-68</b>	SAMPLED BY: Trevor Brown		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-69</b>	SAMPLE ID: W-69-2023-Q2	DATE: 4/19/2023 11:38:00 AM		
TOTAL WELL DEPTH (feet) (A): 21.00	WATER TABLE DEPTH (feet) (B): 6.73	LENGTH OF WATER COLUMN (feet) (A-B): 14.27		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 8.00 - 18.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.33		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 18	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/19/2023 11:08:00 AM	PURGING END TIME: 4/19/2023 11:35:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:10 AM	0.5	0.1	7.49	140.2	6.44	22.23	0.0580118	7.41	0	Clear	None
11:15 AM	1	0.1	7.97	141.4	6.49	22.22	0.0580315	7.55	0	Clear	None
11:20 AM	1.5	0.1	8.15	152.7	6.17	20.97	0.0595258	6.8	0	Clear	None
11:25 AM	2	0.1	8.19	170	6.34	21.64	0.0587153	7.49	0	Clear	None
11:30 AM	2.5	0.1	8.21	166.7	6.24	21.71	0.0586278	7.42	0	Clear	None
11:35 AM	3	0.1	8.24	163.7	6.05	21.83	0.0584918	7.37	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-69</b>	SAMPLED BY: Trevor Brown		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE: W-69-2023-Q2-DUP	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-70</b>	SAMPLE ID: W-70-2023-Q2	DATE: 4/19/2023 10:23:00 AM		
TOTAL WELL DEPTH (feet) (A): 51.79	WATER TABLE DEPTH (feet) (B): 9.55	LENGTH OF WATER COLUMN (feet) (A-B): 42.24		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 44.00 - 49.00 ft	CALCULATED SYSTEM VOLUME (gallons): 6.89		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 48.79	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/19/2023 9:50:00 AM	PURGING END TIME: 4/19/2023 10:20:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:50 AM	0	0.1	9.56	57	6.58	20.69	0.0598685	7.89	0		Clear
9:55 AM	0.5	0.1	9.57	62.1	6.52	20.21	0.0604792	7.93	0	Clear	None
10:00 AM	1	0.1	9.57	68	6.5	20.04	0.0607014	7.94	0	Clear	None
10:05 AM	1.5	0.1	9.57	106.1	6.46	19.95	0.0608046	7.79	0.24	Clear	None
10:10 AM	2	0.1	9.57	96.8	6.75	20.13	0.0605817	7.89	0	Clear	None
10:15 AM	2.5	0.1	9.57	92.5	6.75	20.23	0.0604523	7.86	0	Clear	None
10:20 AM	3	0.1	9.57	91	6.73	20.3	0.0603587	7.84	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-70</b>	SAMPLED BY: Trevor Brown		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-71</b>	SAMPLE ID: W-71-2023-Q2	DATE: 4/19/2023 9:20:00 AM		
TOTAL WELL DEPTH (feet) (A): 103.91	WATER TABLE DEPTH (feet) (B): 22.23	LENGTH OF WATER COLUMN (feet) (A-B): 81.68		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 93.00 - 103.00 ft	CALCULATED SYSTEM VOLUME (gallons): 13.33		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 100.91	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/19/2023 8:42:00 AM	PURGING END TIME: 4/19/2023 9:18:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:43 AM	0	0.12	22.24	8.4	6.56	16.77	0.0652	8.39	0	Light gray	None
8:48 AM	0.6	0.12	22.24	5.9	6.91	17.15	0.0646411	8.78	0	Light gray	None
8:53 AM	1.2	0.12	22.24	21.2	6.85	18	0.0634245	8.53	0	Light gray	None
8:58 AM	1.8	0.12	22.24	29.8	6.78	18.43	0.0628338	8.4	0	Light gray	None
9:03 AM	2.4	0.12	22.24	37	6.73	18.77	0.0623612	8.29	0	Light gray	None
9:08 AM	3	0.12	22.24	42	6.69	19	0.0620537	8.22	0	Light gray	None
9:13 AM	3.6	0.12	22.24	47.1	6.65	19.21	0.0617747	8.13	0	Light gray	None
9:18 AM	4.2	0.12	22.24	51.9	6.59	19.42	0.0615052	8.04	0	Light gray	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-71	SAMPLED BY: Trevor Brown		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-72</b>	SAMPLE ID: W-72-2023-Q2	DATE: 4/11/2023 10:21:00 AM		
TOTAL WELL DEPTH (feet) (A): 14.45	WATER TABLE DEPTH (feet) (B): 7.83	LENGTH OF WATER COLUMN (feet) (A-B): 6.62		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 5.00 - 15.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.08		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 11.45	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/11/2023 9:58:00 AM	PURGING END TIME: 4/11/2023 10:21:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:01 AM	0	0.1	7.87	159.9	6.97	22.87	339.171	4.07	17.1	Clear	None
10:06 AM	0.5	0.1	7.88	161.9	7.06	21.35	357.889	3.17	18.57	Clear	None
10:11 AM	1	0.1	7.88	159.7	7.1	21.46	357.646	3.14	15.6	Clear	None
10:16 AM	1.5	0.1	7.88	158.7	7.13	21.43	354.401	3.12	13.25	Clear	None
10:21 AM	2	0.1	7.88	157.8	7.13	21.58	352.695	3.1	11.71	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-72	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-73</b>	SAMPLE ID: W-73-2023-Q2	DATE: 4/11/2023 9:37:00 AM		
TOTAL WELL DEPTH (feet) (A): 15.77	WATER TABLE DEPTH (feet) (B): 8.33	LENGTH OF WATER COLUMN (feet) (A-B): 7.44		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 6.00 - 16.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.21		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.77	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/11/2023 9:15:00 AM	PURGING END TIME: 4/11/2023 9:37:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:17 AM	0	0.1	8.37	187.4	6.29	17.58	138.058	1.63	35.19	Clear	None
9:22 AM	0.5	0.1	8.38	168.3	6.34	18.94	130.14	0.44	26.41	Clear	None
9:27 AM	1	0.1	8.38	171.5	6.01	19.16	125.246	0.6	9.32	Clear	None
9:32 AM	1.5	0.1	8.38	173.4	6	19.29	123.733	0.69	1.87	Clear	None
9:37 AM	2	0.1	8.38	176.8	5.98	19.36	122.841	0.78	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-73	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-74</b>	SAMPLE ID: W-74-2023-Q2	DATE: 4/13/2023 11:38:00 AM		
TOTAL WELL DEPTH (feet) (A): 33.88	WATER TABLE DEPTH (feet) (B): 12.10	LENGTH OF WATER COLUMN (feet) (A-B): 21.78		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 25.50 - 30.50 ft	CALCULATED SYSTEM VOLUME (gallons): 3.55		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30.88	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/13/2023 11:11:00 AM	PURGING END TIME: 4/13/2023 11:38:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:13 AM	0	0.08	12.3	54.5	5.89	33.01	0.0476577	3.5	2.71	Clear	None
11:18 AM	0.4	0.08	12.33	155.1	5.34	22.15	127.905	3.35	0	Clear	None
11:23 AM	0.8	0.08	12.36	185.1	5.11	21.83	128.267	2.99	0	Clear	None
11:28 AM	1.2	0.08	12.35	196.2	5.09	21.93	128.363	2.77	0	Clear	None
11:33 AM	1.6	0.08	12.36	197	5.16	22.24	128.479	2.6	0	Clear	None
11:38 AM	2	0.08	12.36	195.8	5.29	22.08	128.658	2.52	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-74</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-75</b>	SAMPLE ID: W-75-2023-Q2	DATE: 4/13/2023 10:53:00 AM		
TOTAL WELL DEPTH (feet) (A): 18.60	WATER TABLE DEPTH (feet) (B): 11.73	LENGTH OF WATER COLUMN (feet) (A-B): 6.87		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 5.50 - 15.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.12		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.6	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/13/2023 10:20:00 AM	PURGING END TIME: 4/13/2023 10:52:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:22 AM	0	0.08	11.75	90.2	6.32	21.99	123.165	1.74	1.56	Clear	None
10:27 AM	0.4	0.08	11.75	94.2	6.19	20.24	125.885	0.18	0	Clear	None
10:32 AM	0.8	0.08	11.75	48.6	6.16	20.02	126.062	0.12	0	Clear	None
10:37 AM	1.2	0.08	11.75	2.5	6.16	20.12	126.543	0.1	0	Clear	None
10:42 AM	1.6	0.08	11.75	-28	6.22	20.2	126.751	0.09	0	Clear	None
10:47 AM	2	0.08	11.75	-37.5	6.24	20.47	127.142	0.08	0	Clear	None
10:52 AM	2.4	0.08	11.75	-36.7	6.25	20.52	126.427	0.08	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-75</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-76</b>	SAMPLE ID: W-76-2023-Q2	DATE: 4/6/2023 12:25:00 PM		
TOTAL WELL DEPTH (feet) (A): 14.95	WATER TABLE DEPTH (feet) (B): 10.02	LENGTH OF WATER COLUMN (feet) (A-B): 4.93		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 5.00 - 15.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.80		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 11.95	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/6/2023 11:31:00 AM	PURGING END TIME: 4/6/2023 12:23:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:33 AM	0	0.14	10.15	-31.4	5.39	31.55	151.649	4.35	306.92	Clear	None
11:38 AM	0.7	0.14	10.16	-8	4.98	23.21	142.347	4.95	18.15	Clear	None
11:43 AM	1.5	0.16	10.17	0.7	4.94	22.88	143.134	4.93	12.37	Clear	None
11:48 AM	2.3	0.16	10.18	30.4	4.97	22.73	144.209	4.99	12.08	Clear	None
11:53 AM	3.1	0.16	10.19	17.1	4.98	22.78	143.699	4.96	12.01	Clear	None
11:58 AM	3.9	0.16	10.19	83.6	4.99	22.6	144.133	4.97	7.83	Clear	None
12:03 PM	4.7	0.16	10.19	44.1	4.98	22.46	144.236	4.84	6.77	Clear	None
12:08 PM	5.5	0.16	10.2	30.2	4.98	22.46	144.547	4.88	3.56	Clear	None
12:13 PM	6.3	0.16	10.2	22.6	4.99	22.4	144.792	4.79	2.76	Clear	None
12:18 PM	7.1	0.16	10.2	17.9	5	22.38	145.973	4.75	3.1	Clear	None
12:23 PM	7.9	0.16	10.2	15.5	4.99	22.3	145.085	4.78	1.93	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-76</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-77</b>	SAMPLE ID: W-77-2023-Q2	DATE: 4/4/2023 2:13:00 PM		
TOTAL WELL DEPTH (feet) (A): 15.33	WATER TABLE DEPTH (feet) (B): 8.97	LENGTH OF WATER COLUMN (feet) (A-B): 6.36		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 5.50 - 15.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.04		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME:	PURGING END TIME:	PUMP TYPE:

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:52 PM	0		8.97	-69.3	11.33	33.31	0.0474164	4.32	190.56	Clear	None
1:57 PM	0.7	0.14	8.97	-111.9	11.82	21.58	3303.88	3.88	8.56	Clear	None
2:02 PM	1.4	0.14	8.97	-115.3	11.82	20.87	3224.03	3.97	0.04	Clear	None
2:07 PM	2.1	0.14	8.97	-117.2	11.81	20.53	3175.61	3.96	0.12	Clear	None
2:12 PM	2.8	0.14	8.97	-119	11.8	20.54	3087.22	3.89	0.53	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-77	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL:	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-78</b>	SAMPLE ID: W-78-2023-Q2	DATE: 4/6/2023 12:13:00 PM		
TOTAL WELL DEPTH (feet) (A): 15.13	WATER TABLE DEPTH (feet) (B): 9.38	LENGTH OF WATER COLUMN (feet) (A-B): 5.75		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 5.50 - 15.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.94		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.13	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/6/2023 11:47:00 AM	PURGING END TIME: 4/6/2023 12:12:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:47 AM	0	0.1	9.43	168.1	6.53	26.03	234.731	5.83	2.14	Clear	None
11:52 AM	0.5	0.1	9.45	199.1	5.93	21.11	241.187	5.68	0	Clear	None
11:57 AM	1.5	0.1	9.45	203	5.86	20.97	240.689	5.65	0	Clear	None
12:02 PM	3	0.1	9.45	201.1	5.89	20.95	233.562	5.53	0	Clear	None
12:07 PM	5	0.1	9.45	198.1	5.93	20.92	231.653	5.36	0	Clear	None
12:12 PM	7.5	0.1	9.45	194.2	5.98	20.91	231.511	5.27	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-78	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-79</b>	SAMPLE ID: W-79-2023-Q2	DATE: 4/6/2023 11:06:00 AM		
TOTAL WELL DEPTH (feet) (A): 15.35	WATER TABLE DEPTH (feet) (B): 8.25	LENGTH OF WATER COLUMN (feet) (A-B): 7.10		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 5.50 - 15.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.16		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/6/2023 10:44:00 AM	PURGING END TIME: 4/6/2023 11:05:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC. COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:45 AM	0	0.14	8.33	-63.6	7.2	34.46	0.44849	5.16	6726.85	Clear	None
10:50 AM	0.7	0.14	8.4	-21.6	6.41	22.39	160.702	7.29	1.56	Clear	None
10:55 AM	1.4	0.14	8.42	-8.5	6.24	21.96	161.962	6.75	0.7	Clear	None
11:00 AM	2.1	0.14	8.43	-5	6.21	21.89	162.54	6.61	0.74	Clear	None
11:05 AM	2.8	0.14	8.43	-7.6	6.2	21.77	163.235	6.25	0.71	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-79	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-80</b>	SAMPLE ID: W-80-2023-Q2	DATE: 4/6/2023 8:53:00 AM		
TOTAL WELL DEPTH (feet) (A): 15.34	WATER TABLE DEPTH (feet) (B): 9.94	LENGTH OF WATER COLUMN (feet) (A-B): 5.40		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 5.50 - 15.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.88		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.34	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/6/2023 8:29:00 AM	PURGING END TIME: 4/6/2023 8:52:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:32 AM	0	0.1	10.12	154.8	5.61	21.26	246.771	4.88	0	Clear	None
8:37 AM	0.5	0.1	10.44	175.2	5.36	20.43	247.896	4.47	0	Clear	None
8:42 AM	1.5	0.1	10.66	178.2	5.38	20.44	246.435	4.46	0	Clear	None
8:47 AM	3	0.1	10.86	180.3	5.38	20.46	247.362	4.38	0	Clear	None
8:52 AM	5	0.1	11.02	181.5	5.38	20.49	250.343	4.23	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-80</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-81</b>	SAMPLE ID: W-81-2023-Q2	DATE: 4/11/2023 1:55:00 PM		
TOTAL WELL DEPTH (feet) (A): 15.33	WATER TABLE DEPTH (feet) (B): 10.72	LENGTH OF WATER COLUMN (feet) (A-B): 4.61		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 5.50 - 15.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.75		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.33	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/11/2023 1:31:00 PM	PURGING END TIME: 4/11/2023 1:54:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:34 PM	0	0.08	11.05	109.8	6.21	25.01	318.193	0.49	5.83	Clear	None
1:39 PM	0.4	0.08	11.38	142.3	5.86	21.27	333.906	0.21	0.16	Clear	None
1:44 PM	0.8	0.08	11.52	150.3	5.77	20.73	335.797	0.21	0	Clear	None
1:49 PM	1.2	0.08	11.6	152.6	5.72	20.86	336.832	0.27	0.21	Clear	None
1:54 PM	1.6	0.08	11.65	156.8	5.72	20.8	338.334	0.35	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-81	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-82</b>		SAMPLE ID: W-82-2023-Q2	DATE: 4/5/2023 2:33:00 PM	
TOTAL WELL DEPTH (feet) (A): 15.35		WATER TABLE DEPTH (feet) (B): 11.68	LENGTH OF WATER COLUMN (feet) (A-B): 3.67	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 5.50 - 15.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.60	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME:	PURGING END TIME:	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:37 PM	0	0.08	11.84	101	5.72	35	0.0461339	2.02	45.23	Clear	None
1:42 PM	0.4	0.08	12.09	158.7	5	22.81	131.165	1.71	34.47	Clear	None
1:47 PM	1.2	0.08	12.32	161.3	4.96	22.52	127.807	1.58	43.72	Clear	None
1:52 PM	2.4	0.08	12.58	162.3	4.97	22.4	123.256	1.36	54.09	Clear	None
1:57 PM	4	0.08	12.7	163	4.97	23.21	117.052	1.14	58.18	Clear	None
2:02 PM	6.4	0.08	12.82	158.4	5.08	23.55	120.388	0.98	69.32	Clear	None
2:07 PM	9.2	0.08	12.93	151.3	5.21	23.67	118.303	0.76	79.68	Clear	None
2:12 PM	12.4	0.08	13.01	147.8	5.24	22.98	118.422	0.71	87.88	Cloudy	None
2:17 PM	16	0.08	13.09	147.1	5.22	22.79	123.959	0.59	90.37	Cloudy	None
2:22 PM	20	0.08	13.18	142.9	5.23	22.37	130.509	0.46	80.9	Cloudy	None
2:27 PM	24.4	0.08	13.23	141.9	5.2	22.59	133.081	0.38	65.91	Clear	None
2:32 PM	29.2	0.08	13.28	137.7	5.23	22.6	135.581	0.32	59.13	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-82</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-83</b>		SAMPLE ID: W-83-2023-Q2	DATE: 4/5/2023 2:34:00 PM	
TOTAL WELL DEPTH (feet) (A): 26.10		WATER TABLE DEPTH (feet) (B): 12.92	LENGTH OF WATER COLUMN (feet) (A-B): 13.18	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 16.50 - 26.50 ft	CALCULATED SYSTEM VOLUME (gallons): 2.15	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME:	PURGING END TIME:	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:43 PM	0	0.1	13.09	-58.6	5.76	37.68	0.0442358	5.2	278.43	Clear	None
1:48 PM	0.6	0.12	13.48	-52.9	5.2	24.23	160.053	2.42	36.41	Clear	None
1:53 PM	1.2	0.12	13.75	-30.6	5.08	24	156.693	2.33	39.72	Clear	None
1:58 PM	1.7	0.12	13.9	-5.2	5.14	24.34	148.375	2.27	51.31	Clear	None
2:03 PM	2.2	0.1	13.92	-25.3	5.31	24.69	144.219	2.26	46.93	Clear	None
2:08 PM	2.6	0.08	13.9	-18.4	5.46	24.93	140.084	2.29	47.72	Clear	None
2:13 PM	3	0.08	13.88	-38.9	5.54	24.91	136.037	2.27	45.54	Clear	None
2:18 PM	3.4	0.08	13.85	-45.1	5.55	24.7	132.716	2.26	44.25	Clear	None
2:23 PM	3.8	0.08	13.84	-50.6	5.56	24.54	128.163	2.25	48.74	Clear	None
2:28 PM	4.2	0.08	13.84	-55.3	5.6	24.62	126.322	2.24	51.13	Clear	None
2:33 PM	4.6	0.08	13.83	-58.2	5.62	24.66	124.02	2.25	52.97	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-83	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-84</b>	SAMPLE ID: W-84-2023-Q2	DATE: 4/5/2023 1:16:00 PM		
TOTAL WELL DEPTH (feet) (A): 20.32	WATER TABLE DEPTH (feet) (B): 6.07	LENGTH OF WATER COLUMN (feet) (A-B): 14.25		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 11.00 - 21.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.33		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME:	PURGING END TIME:	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:54 PM	0		6.25	-70	6.12	28.51	276.242	3.93	55.75	Clear	None
12:59 PM	0.8	0.16	6.78	-60.7	5.52	23.07	150.363	2.43	6.79	Clear	None
1:04 PM	1.3	0.1	6.98	-44.4	5.36	23.18	150.821	2.44	3.24	Clear	None
1:09 PM	1.8	0.1	7.17	-41.1	5.36	23.27	150.65	2.4	2.09	Clear	None
1:14 PM	2.3	0.1	7.28	-49.8	5.38	22.83	150.184	2.36	1.96	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-84</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-85</b>	SAMPLE ID: W-85-2023-Q2	DATE: 4/19/2023 1:28:00 PM		
TOTAL WELL DEPTH (feet) (A): 47.70	WATER TABLE DEPTH (feet) (B): 18.80	LENGTH OF WATER COLUMN (feet) (A-B): 28.90		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 40.00 - 45.00 ft	CALCULATED SYSTEM VOLUME (gallons): 4.72		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 44.7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/19/2023 12:52:00 PM	PURGING END TIME: 4/19/2023 1:25:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:55 PM	0	0.1	19.17	15.7	9.53	30.81	0.588317	6.35	0	Clear	None
1:00 PM	0.5	0.1	19.49	81.8	7.21	29.51	0	6.52	0	Clear	None
1:05 PM	1	0.1	19.6	74.6	7.41	26.98	0	6.91	0	Clear	None
1:10 PM	1.5	0.1	19.63	72.1	7.43	25.84	0	7.12	0	Clear	None
1:15 PM	2	0.1	19.65	71.8	7.41	25.08	0	7.25	0	Clear	None
1:20 PM	2.5	0.1	19.66	72.1	7.42	24.4	0	7.37	0	Clear	None
1:25 PM	3	0.1	19.66	68.9	7.49	24.13	0	7.42	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-85</b>	SAMPLED BY: Trevor Brown		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-86</b>	SAMPLE ID: W-86-2023-Q2	DATE: 4/19/2023 2:15:00 PM		
TOTAL WELL DEPTH (feet) (A): 38.10	WATER TABLE DEPTH (feet) (B): 17.73	LENGTH OF WATER COLUMN (feet) (A-B): 20.37		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 25.00 - 35.00 ft	CALCULATED SYSTEM VOLUME (gallons): 3.32		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 35.1	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/19/2023 1:50:00 PM	PURGING END TIME: 4/19/2023 2:12:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:52 PM	0.5	0.1	18.02	12	9.14	31.34	0.049014	6.52	13.62	Clear	None
1:57 PM	1	0.1	18.33	60.7	8.17	27.54	0.0524051	6.94	0	Clear	None
2:02 PM	1.5	0.1	18.45	77.2	7.61	26.89	0	6.99	0	Clear	None
2:07 PM	2	0.1	18.55	79.3	7.55	26.23	0	7.09	0	Clear	None
2:12 PM	2.5	0.1	18.63	82.5	7.49	25.85	0	7.12	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-86</b>	SAMPLED BY: Trevor Brown		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-87</b>	SAMPLE ID: W-87-2023-Q2	DATE: 4/12/2023 8:57:00 AM		
TOTAL WELL DEPTH (feet) (A): 33.02	WATER TABLE DEPTH (feet) (B): 7.38	LENGTH OF WATER COLUMN (feet) (A-B): 25.64		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 28.00 - 33.00 ft	CALCULATED SYSTEM VOLUME (gallons): 4.18		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30.02	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/12/2023 8:08:00 AM	PURGING END TIME: 4/12/2023 8:57:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:12 AM	0	0.08	7.58	-73.7	6.59	14.96	93.5296	7.15	2.79	Clear	None
8:17 AM	0.4	0.08	7.55	-87.7	6.47	16.38	90.6705	2.26	21.07	Clear	None
8:22 AM	0.8	0.08	7.83	-99.9	6.45	18.02	88.4705	1.73	30.58	Clear	None
8:27 AM	1.2	0.08	7.88	-107	6.45	18.42	88.2496	1.45	27.44	Clear	None
8:32 AM	1.6	0.08	7.89	-113.8	6.45	18.8	88.9954	1.1	31.23	C	None
8:37 AM	2	0.08	7.9	-116.7	6.43	18.67	88.0914	1.04	25.25	Clear	None
8:42 AM	2.4	0.08	7.91	-121.1	6.44	18.62	88.0816	0.85	27.71	Clear	None
8:47 AM	2.8	0.08	7.91	-125.1	6.43	18.95	88.4954	0.72	22.49	Clear	None
8:52 AM	3.2	0.08	7.92	-128.3	6.43	18.82	87.4047	0.72	22.74	Clear	None
8:57 AM	3.6	0.08	7.92	-130.7	6.43	18.91	88.3705	0.66	21.96	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-87</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-88</b>	SAMPLE ID: W-88-2023-Q2	DATE: 4/18/2023 11:18:00 AM		
TOTAL WELL DEPTH (feet) (A): 44.32	WATER TABLE DEPTH (feet) (B): 22.97	LENGTH OF WATER COLUMN (feet) (A-B): 21.35		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 36.50 - 41.50 ft	CALCULATED SYSTEM VOLUME (gallons): 3.48		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 41.32	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/18/2023 10:52:00 AM	PURGING END TIME: 4/18/2023 11:15:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:55 AM	0	0.12	23.21	149.6	5.57	23.78	0.0562545	7.56	0	Clear	None
11:00 AM	0.6	0.12	23.23	163.3	5.12	23	0.0571233	7.64	0	Clear	None
11:05 AM	1.2	0.12	22.25	163	4.98	22.71	0.0574631	7.67	0	Clear	None
11:10 AM	1.8	0.12	23.26	161.5	4.7	22.78	0.0573835	7.62	0	Clear	None
11:15 AM	2.4	0.12	23.26	163	4.67	22.79	0	7.65	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-88</b>	SAMPLED BY: Trevor Brown		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666	REMARKS:				
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-89</b>		SAMPLE ID: W-89-2023-Q2	DATE: 4/18/2023 10:17:00 AM	
TOTAL WELL DEPTH (feet) (A): 28.15		WATER TABLE DEPTH (feet) (B): 22.23	LENGTH OF WATER COLUMN (feet) (A-B): 5.92	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 15.50 - 25.50 ft	CALCULATED SYSTEM VOLUME (gallons): 0.97	
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25.15	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/18/2023 9:22:00 AM	PURGING END TIME: 4/18/2023 10:15:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:25 AM	0	0.12	22.25	131.8	6.29	15.99	0.0663639	8.76	0	Clear	None
9:30 AM	0.6	0.12	22.25	153.5	6.48	16.35	0.645047	9.01	0	Clear	None
9:35 AM	1.2	0.12	22.25	155.4	6.46	16.79	0.874783	8.87	0	Clear	None
9:40 AM	1.8	0.12	22.25	154.4	6.63	17.14	0.954153	8.76	0	Clear	None
9:45 AM	2.4	0.12	22.25	156.7	6.57	17.48	0.910976	8.65	0	Clear	None
9:50 AM	3	0.12	22.25	157.7	6.52	17.76	0.823536	8.59	0	Clear	None
9:55 AM	3.6	0.12	22.25	158	6.49	18.02	0.688184	8.52	0	Clear	None
10:00 AM	4.2	0.12	22.25	158.1	6.48	18.23	0.506207	8.48	0	Clear	None
10:05 AM	4.8	0.12	22.25	158.6	6.43	18.5	0.310746	8.45	0	Clear	None
10:10 AM	5.4	0.12	22.25	156.3	6.45	18.68	0.231123	8.37	0	Clear	None
10:15 AM	6	0.12	22.25	156.1	6.44	18.89	0.224791	8.33	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-89</b>	SAMPLED BY: Trevor Brown		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE: W-89-2023-Q2-Dup	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666	REMARKS:				
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-90</b>	SAMPLE ID: W-90-2023-Q2	DATE: 4/17/2023 11:20:00 AM		
TOTAL WELL DEPTH (feet) (A): 43.00	WATER TABLE DEPTH (feet) (B): 27.10	LENGTH OF WATER COLUMN (feet) (A-B): 15.90		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 35.00 - 40.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.59		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 40	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/17/2023 10:57:00 AM	PURGING END TIME: 4/17/2023 11:17:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:57 AM	0	0.1	27.29	143.8	5.93	23.34	0.0567436	7.69	0	Clear	None
11:02 AM	0.5	0.1	27.23	141.3	6.03	21.73	0.058605	7.76	0	Clear	None
11:07 AM	1	0.1	27.23	139.7	5.87	20.77	0.0597705	7.71	0	Clear	None
11:12 AM	1.5	0.1	27.21	137	5.5	20.26	0.06042	7.66	0	Clear	None
11:17 AM	2	0.1	27.19	144.2	5.35	20	0.0607465	7.65	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-90	SAMPLED BY: Trevor Brown		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-91</b>	SAMPLE ID: W-91-2023-Q2	DATE: 4/17/2023 12:50:00 PM		
TOTAL WELL DEPTH (feet) (A): 28.23	WATER TABLE DEPTH (feet) (B): 27.05	LENGTH OF WATER COLUMN (feet) (A-B): 1.18		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 15.00 - 25.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.19		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25.23	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/17/2023 11:54:00 AM	PURGING END TIME: 4/17/2023 12:45:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:55 AM	0	0.1	27.23	150.7	5.53	20.82	0.0597101	7.59	0	Clear	None
12:00 PM	0.5	0.1	27.46	151.4	5.3	20.05	0.0606854	7.7	0	Clear	None
12:05 PM	1	0.1	27.72	152.9	5.32	19.69	0	7.74	0	Clear	None
12:10 PM	1.5	0.1	27.9	154.3	5.37	19.57	0	7.77	0	Clear	None
12:15 PM	2	0.1	27.94	158.1	5.85	19.58	0	7.96	0	Clear	None
12:20 PM	2.5	0.1	27.97	165.8	5.86	20.12	0	7.55	0	Clear	None
12:25 PM	3	0.1	28.01	174.1	5.83	20.23	0	7.35	0	Clear	None
12:30 PM	3.5	0.1	28	177.9	5.66	20.33	0	6.84	0	Clear	None
12:35 PM	4	0.1	27.99	177.9	5.62	20.42	0	6.76	0	Clear	None
12:40 PM	4.5	0.1	27.99	173.2	5.6	20.56	0	6.84	0	Clear	None
12:45 PM	5	0.1	27.99	169.3	5.52	20.67	0	6.82	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-91	SAMPLED BY: Trevor Brown		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-92</b>	SAMPLE ID: W-92-2023-Q2	DATE: 4/20/2023 9:12:00 AM		
TOTAL WELL DEPTH (feet) (A): 36.85	WATER TABLE DEPTH (feet) (B): 14.32	LENGTH OF WATER COLUMN (feet) (A-B): 22.53		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 29.00 - 34.00 ft	CALCULATED SYSTEM VOLUME (gallons): 3.68		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/20/2023 8:44:00 AM	PURGING END TIME: 4/20/2023 9:11:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:46 AM	0	0.08	14.34	115	8.18	14.1	0.0693977	10.35	0	Clear	None
8:51 AM	0.4	0.08	14.34	36.2	8.23	15.92	0.066474	9.61	0	Clear	None
8:56 AM	0.8	0.08	14.34	1.5	8.15	16.59	0.0654615	9.48	0	Clear	None
9:01 AM	1.2	0.08	14.34	-11.4	8.06	16.95	0.0649303	9.42	0	Clear	None
9:06 AM	1.6	0.08	14.34	-13.6	7.98	17.26	0.0644798	9.23	0	Clear	None
9:11 AM	2	0.08	14.34	-17.4	7.94	17.46	0.0641916	9.2	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-92</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-93</b>	SAMPLE ID: W-93-2023-Q2	DATE: 4/6/2023 9:55:00 AM		
TOTAL WELL DEPTH (feet) (A): 35.33	WATER TABLE DEPTH (feet) (B): 9.40	LENGTH OF WATER COLUMN (feet) (A-B): 25.93		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 30.50 - 35.50 ft	CALCULATED SYSTEM VOLUME (gallons): 4.23		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.33	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/6/2023 9:21:00 AM	PURGING END TIME: 4/6/2023 9:54:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:24 AM	0	0.1	9.49	169.6	5.79	23.4	133.115	2.74	0	Clear	None
9:29 AM	0.5	0.1	9.55	181.6	5.42	21.43	127.327	1.94	0	Clear	None
9:34 AM	1.5	0.1	9.59	223.6	5.36	21.49	125.947	1.78	0	Clear	None
9:39 AM	3	0.1	9.59	219.3	5.43	21.45	126.065	1.65	0	Clear	None
9:44 AM	5	0.1	9.59	213.4	5.45	21.41	126.135	1.53	0	Clear	None
9:49 AM	7.5	0.1	9.6	208.2	5.46	21.59	126.081	1.43	0	Clear	None
9:54 AM	10.5	0.1	9.6	204.1	5.47	21.59	126.086	1.35	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-93	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-94</b>	SAMPLE ID: W-94-2023-Q2	DATE: 4/24/2023 12:55:00 PM		
TOTAL WELL DEPTH (feet) (A): 31.95	WATER TABLE DEPTH (feet) (B): 8.99	LENGTH OF WATER COLUMN (feet) (A-B): 22.96		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 24.50 - 29.50 ft	CALCULATED SYSTEM VOLUME (gallons): 3.74		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 28.98	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/24/2023 12:01:00 PM	PURGING END TIME: 4/24/2023 12:53:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:03 PM	0	0.1	9.03	-38.1	6.06	23.88	8.83775	4.95	182.91	Light orange	None
12:08 PM	0.5	0.1	9.02	-8.7	5.99	17.79	127.636	0.81	143.03	Light orange	None
12:13 PM	1	0.1	9.02	-39.2	6.06	17.85	126.558	9.66	92.62	Light orange	None
12:18 PM	1.5	0.1	9.02	-25.5	6.03	18.06	127.934	0.24	131.67	Light orange	None
12:23 PM	2	0.1	9.02	-31	6.07	18.26	128.029	0.21	47.49	Light orange	None
12:28 PM	2.5	0.1	9.02	-35.7	6.08	18.3	127.531	0.21	77.73	Light orange	None
12:33 PM	3	0.1	9.02	-38.8	6.1	18.16	127.328	0.17	41.33	Light orange	None
12:38 PM	3.5	0.1	9.03	-41.8	6.09	18.28	127.445	0.17	27.42	Clearing	None
12:43 PM	4	0.1	9.02	-45.2	6.1	18.28	127.614	0.16	29.4	Clear	None
12:48 PM	4.5	0.1	9.02	-50.8	6.1	18.39	127.252	0.15	16.4	Clear	None
12:53 PM	5	0.1	9.02	-54.7	6.11	18.35	127.337	0.14	17.85	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-94</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-95</b>	SAMPLE ID: W-95-2023-Q2	DATE: 4/24/2023 11:45:00 AM		
TOTAL WELL DEPTH (feet) (A): 36.21	WATER TABLE DEPTH (feet) (B): 7.56	LENGTH OF WATER COLUMN (feet) (A-B): 28.65		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 28.50 - 33.50 ft	CALCULATED SYSTEM VOLUME (gallons): 4.68		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 33.21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/24/2023 11:05:00 AM	PURGING END TIME: 4/24/2023 11:42:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:07 AM	0	0.11	7.56	-17.5	7.6	17.31	0.0644074	8.95	0	Clear	None
11:12 AM	0.55	0.11	7.56	-12.8	7.52	17.08	0.0647378	8.98	0	Clear	None
11:17 AM	1.1	0.11	7.56	-9.5	7.33	16.98	0.0648803	8.99	0	Clear	None
11:22 AM	1.65	0.11	7.56	7.5	7.17	16.94	0.0649486	8.96	0	Clear	None
11:27 AM	2.2	0.11	7.56	19.3	7.19	16.92	0.0649755	8.92	0	Clear	None
11:32 AM	2.75	0.11	7.56	11	7.15	16.94	0.0649484	8.9	0	Clear	None
11:37 AM	3.25	0.11	7.56	7.6	7.13	16.96	0.064908	8.86	0	Clear	None
11:42 AM	3.8	0.11	7.56	6.9	7.11	16.99	0.0648684	8.84	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-95	SAMPLED BY: Trevor Brown		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-96</b>	SAMPLE ID: W-96-2023-Q2	DATE: 4/20/2023 9:41:00 AM		
TOTAL WELL DEPTH (feet) (A): 32.83	WATER TABLE DEPTH (feet) (B): 7.49	LENGTH OF WATER COLUMN (feet) (A-B): 25.34		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 25.00 - 30.00 ft	CALCULATED SYSTEM VOLUME (gallons): 4.14		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 29.83	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/20/2023 8:56:00 AM	PURGING END TIME: 4/20/2023 9:39:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:59 AM	0		7.49	-40.6	6.34	16.79	220.898	4.74	145.14	Clear	None
9:04 AM	0.7	0.14	7.49	-48.4	6	17.29	228.61	0.47	67.45	Clear	None
9:09 AM	1.4	0.14	7.49	-52.9	6	17.38	228.104	0.31	35.81	Clear	None
9:14 AM	2.1	0.14	7.49	-56	5.99	17.5	226.812	0.24	37.22	Clear	None
9:19 AM	2.8	0.14	7.49	-56.5	5.99	17.76	228.209	0.24	24.78	Clear	None
9:24 AM	3.5	0.14	7.49	-57.7	5.99	18.18	224.472	0.19	34.42	Clear	None
9:29 AM	4.2	0.14	7.49	-47.4	6.02	18.29	225.638	0.18	12.01	Clear	None
9:34 AM	4.9	0.14	7.49	-48	6.01	18.35	223.633	0.15	11.88	Clear	None
9:39 AM	5.6	0.14	7.49	-52	6.01	18.44	222.671	0.13	21.89	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-96</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-97</b>	SAMPLE ID: W-97-2023-Q2	DATE: 4/21/2023 10:57:00 AM		
TOTAL WELL DEPTH (feet) (A): 21.93	WATER TABLE DEPTH (feet) (B): 4.25	LENGTH OF WATER COLUMN (feet) (A-B): 17.68		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 14.00 - 19.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.89		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 18.93	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/21/2023 10:08:00 AM	PURGING END TIME: 4/21/2023 10:55:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:10 AM	0		4.25	-11.1	5.99	24.13	0.0558696	5.39	0	Clear	None
10:15 AM	0.7	0.14	4.25	-48.5	5.56	17.34	162.937	0.49	0.12	Clear	None
10:20 AM	1.4	0.14	4.25	-68.9	5.53	17.17	163.548	0.35	2.27	Clear	None
10:25 AM	2.1	0.14	4.25	-79.2	5.54	17.1	162.828	0.24	4.54	Clear	None
10:30 AM	2.8	0.14	4.25	-94.6	5.57	17.11	162.694	0.22	7.15	Clear	None
10:35 AM	3.5	0.14	4.25	-100.3	5.59	16.97	161.756	0.19	9.47	Clear	None
10:40 AM	4.2	0.14	4.25	-107.9	5.62	16.99	163.55	0.17	11.84	Clear	None
10:45 AM	4.9	0.14	4.25	-114.5	5.64	17.05	163.112	0.16	16.34	Clear	None
10:50 AM	5.6	0.14	4.25	-120.5	5.65	17.12	161.292	0.18	18.86	Clear	None
10:55 AM	6.3	0.14	4.25	-123.1	5.67	17.19	161.774	0.17	1.28	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-97	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-98</b>	SAMPLE ID: W-98-2023-Q2	DATE: 4/18/2023 1:59:00 PM		
TOTAL WELL DEPTH (feet) (A): 29.88	WATER TABLE DEPTH (feet) (B): 23.41	LENGTH OF WATER COLUMN (feet) (A-B): 6.47		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 17.00 - 27.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.06		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 26.88	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/18/2023 1:20:00 PM	PURGING END TIME: 4/18/2023 1:55:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:20 PM	0	0.1	23.53	160.4	5.48	28.27	0.0517117	6.82	0	Clear	None
1:25 PM	0.6	0.12	23.56	188.6	4.42	25.44	0.059129	6.89	0	Clear	None
1:30 PM	1.2	0.12	26.58	192.6	4.27	23.37	0	7.14	0	Clear	None
1:35 PM	1.8	0.12	23.59	196.6	4.25	22.39	0	7.27	0	Clear	None
1:40 PM	2.4	0.12	23.6	203.5	4.22	21.67	0	7.36	0	Clear	None
1:45 PM	3	0.12	23.6	219.9	4.88	20.67	0.0599009	7.48	0	Clear	None
1:50 PM	3.6	0.12	23.61	224.5	4.5	20.67	0.0599022	7.46	0	Clear	None
1:55 PM	4.2	0.12	23.61	224.6	4.28	20.51	0.0601044	7.43	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-98</b>	SAMPLED BY: Trevor Brown		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-99</b>		SAMPLE ID: W-99-2023-Q2	DATE: 4/12/2023 2:03:00 PM	
TOTAL WELL DEPTH (feet) (A): 23.87		WATER TABLE DEPTH (feet) (B): 11.67	LENGTH OF WATER COLUMN (feet) (A-B): 12.20	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 16.00 - 21.00 ft		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20.87	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/12/2023 1:05:00 PM	PURGING END TIME: 4/12/2023 2:02:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:07 PM	0	0.08	11.93	-46.3	6.67	27.53	371.364	1.36	8.24	Clear	None
1:12 PM	0.4	0.08	12.37	33.7	6.16	21.98	253.754	0.67	0	Clear	None
1:17 PM	0.8	0.08	12.61	47.7	6.01	21.34	267.488	0.4	0	Clear	None
1:22 PM	1.2	0.08	12.78	32	6.08	21.14	288.522	0.3	0	Clear	None
1:27 PM	1.6	0.08	12.87	12.4	6.15	21.23	312.133	0.26	0	Clear	None
1:32 PM	2	0.08	12.9	-15.4	6.32	21.28	350.461	0.23	0	Clear	None
1:37 PM	2.4	0.08	12.92	-33.5	6.42	21.36	378.058	0.2	0	Clear	None
1:42 PM	2.8	0.08	12.92	-43.3	6.48	21.35	390.918	0.18	0	Clear	None
1:47 PM	3.2	0.08	12.92	-54.3	6.54	21.11	398.294	0.16	0	Clear	None
1:52 PM	3.6	0.08	11.92	-58	6.56	21.14	415.468	0.15	3.08	Clear	None
1:57 PM	4	0.08	11.92	-63.6	6.6	21.16	436.778	0.16	5.52	Clear	None
2:02 PM	4.4	0.08	11.92	-65.6	6.59	21.08	427.088	0.13	9.56	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-99</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-100</b>	SAMPLE ID: W-100-2023-Q2	DATE: 4/12/2023 2:52:00 PM		
TOTAL WELL DEPTH (feet) (A): 15.08	WATER TABLE DEPTH (feet) (B): 10.20	LENGTH OF WATER COLUMN (feet) (A-B): 4.88		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 7.00 - 12.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.80		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.08	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/12/2023 2:22:00 PM	PURGING END TIME: 4/12/2023 2:50:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
2:25 PM	0	0.08	10.23	99	5.83	22	117.196	4.29	2.83	Clear	None
2:30 PM	0.4	0.08	10.24	162.2	5.26	20.18	106.049	4.68	1.54	Clear	None
2:35 PM	0.8	0.08	10.24	190.1	5.02	19.91	96.1056	5.34	0	Clear	None
2:40 PM	1.2	0.08	10.24	193.8	5.04	19.85	106.421	5.05	0	Clear	None
2:45 PM	1.6	0.08	10.24	197.4	5.04	19.78	103.789	5.08	0	Clear	None
2:50 PM	2	0.08	10.24	198.4	5.07	19.86	105.695	5.13	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-100</b>	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-102</b>	SAMPLE ID: W-102-2023-Q2	DATE: 4/11/2023 9:46:00 AM		
TOTAL WELL DEPTH (feet) (A): 33.65	WATER TABLE DEPTH (feet) (B): 9.97	LENGTH OF WATER COLUMN (feet) (A-B): 23.68		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 28.50 - 33.50 ft	CALCULATED SYSTEM VOLUME (gallons): 3.86		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30.65	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/11/2023 8:55:00 AM	PURGING END TIME: 4/11/2023 9:45:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:00 AM	0		10.03	-113.9	6.72	16.39	1052.32	2.2	8.87	Clear	None
9:05 AM	0.7	0.14	10.11	-143.9	6.72	18.57	1159.3	0.45	2.13	Clear	None
9:10 AM	1.4	0.14	10.12	-153	6.69	18.83	1079.88	0.37	1.02	Clear	None
9:15 AM	2.1	0.14	10.12	-162.2	6.67	19.15	1029.88	0.36	0.43	Clear	None
9:20 AM	2.8	0.14	10.12	-166.7	6.65	19.46	960.572	0.3	2.28	Clear	None
9:25 AM	3.5	0.14	10.12	-170.6	6.65	19.52	949.841	0.32	0.91	Clear	None
9:30 AM	4.2	0.14	10.12	-173.4	6.63	19.69	909.493	0.23	0	Clear	None
9:35 AM	4.9	0.14	10.22	-175.2	6.63	19.77	851.815	0.2	0.03	Clear	None
9:40 AM	5.6	0.14	10.12	-176.3	6.62	19.91	842.69	0.21	1.02	Clear	None
9:45 AM	6.3	0.14	10.12	-178.1	6.61	19.86	820.729	0.22	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-102</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-103</b>	SAMPLE ID: W-103-2023-Q2	DATE: 4/10/2023 10:38:00 AM
TOTAL WELL DEPTH (feet) (A): 41.78	WATER TABLE DEPTH (feet) (B): 16.35	LENGTH OF WATER COLUMN (feet) (A-B): 25.43
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 34.50 - 39.50 ft	CALCULATED SYSTEM VOLUME (gallons): 4.15
<b>PURGING DATA</b>		
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38.78	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/10/2023 10:03:00 AM PURGING END TIME: 4/10/2023 10:35:00 AM PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:05 AM	0	0.1	16.45	160.2	6.14	13.35	0.0706676	3.98	0	Clear	None
10:10 AM	0.5	0.1	16.43	144.2	6.31	15.22	0.0675603	2.11	0	Clear	None
10:15 AM	1	0.1	16.42	134.1	6.25	15.51	0.0671058	1.67	0	Clear	None
10:20 AM	1.5	0.1	16.42	139.2	6.26	15.83	0.0666094	1.67	0	Clear	None
10:25 AM	2	0.1	16.42	144.6	6.25	16.03	0.0662987	1.64	0	Clear	None
10:30 AM	2.5	0.1	16.43	149.4	6.24	16.23	0.0659949	1.62	0	Clear	None
10:35 AM	3	0.1	16.43	152.3	6.25	16.35	0.065812	1.52	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-103</b>	SAMPLED BY: Trevor Brown		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-104</b>		SAMPLE ID: W-104-2023-Q2	DATE: 4/20/2023 1:25:00 PM	
TOTAL WELL DEPTH (feet) (A): 20.37		WATER TABLE DEPTH (feet) (B): 5.86	LENGTH OF WATER COLUMN (feet) (A-B): 14.51	
CASING DIAMETER / MATL: 2 in, PVC		WELL SCREEN INTERVAL DEPTH: 7.50 - 17.50 ft		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.37	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/20/2023 10:51:00 AM	PURGING END TIME: 4/20/2023 1:23:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:53 AM	0		5.87	40.2	5.77	22.75	231.381	3.2	186.14	Clear	None
10:58 AM	0.7	0.14	5.87	59.8	5.47	19.33	242.205	0.62	66.08	Clear	None
11:03 AM	1.3	0.12	5.87	57.4	5.48	19.51	239.856	0.47	44.2	Clear	None
11:08 AM	1.9	0.12	5.87	45.8	5.58	20.22	237.191	0.78	26.93	Clear	None
11:13 AM	2.5	0.12	5.87	44.9	5.56	19.4	238.625	0.57	21.27	Clear	None
11:18 AM	3.1	0.12	5.87	42.8	5.57	19.53	236.869	0.46	29.52	Clear	None
12:53 PM	3.7	0.12	5.87	68	5.74	40.41	234.412	3.67	14.42	Clear	None
12:58 PM	4.3	0.12	5.87	105	5.14	20.77	231.899	0.51	16.81	Clear	None
1:03 PM	4.9	0.12	5.87	23.9	5.06	20.67	233.021	0.37	9.35	Clear	None
1:08 PM	5.5	0.12	5.87	3.7	5.12	20.27	230.168	0.29	6.87	Clear	None
1:13 PM	6.1	0.12	5.87	-12.4	5.11	20.11	227.958	0.24	6.28	Clear	None
1:18 PM	6.7	0.12	5.87	-15.9	5.1	20.35	223.994	0.23	5.01	Clear	None
1:23 PM	7.3	0.12	5.87	-17.6	5.1	20.83	221.229	0.23	4.45	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-104</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134	REMARKS:				
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: <b>pH:</b> + 1.0 units <b>Temperature:</b> + 3% <b>Specific Conductance:</b> + 3% <b>Dissolved Oxygen:</b> optionally, + 0.2 mg/L or + 10% (whichever is greater) <b>ORP:</b> + 10 mV <b>Turbidity:</b> all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-105</b>	SAMPLE ID: W-105-2023-Q2	DATE: 4/19/2023 1:27:00 PM		
TOTAL WELL DEPTH (feet) (A): 26.92	WATER TABLE DEPTH (feet) (B): 7.85	LENGTH OF WATER COLUMN (feet) (A-B): 19.07		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 14.00 - 24.00 ft	CALCULATED SYSTEM VOLUME (gallons): 3.11		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 23.92	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/19/2023 12:48:00 PM	PURGING END TIME: 4/19/2023 1:25:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:50 PM	0		7.98	-49.4	6.58	31	39.4923	4.55	112.2	Clear	None
12:55 PM	0.8	0.16	8.01	-69.6	6.26	19.41	381.337	0.51	21.45	Clear	None
1:00 PM	1.6	0.16	8.02	-75.8	6.14	19.32	380.71	0.33	29.28	Clear	None
1:05 PM	8.6	0.14	8.02	-82.6	6.1	19.31	376.405	0.26	11.59	Clear	None
1:10 PM	15.6	0.14	8.02	-86.8	6.09	19.15	372.887	0.22	8.66	Clear	None
1:15 PM	22.6	0.14	8.02	-100.7	6.1	19.03	370.115	0.2	9.18	Clear	None
1:20 PM	29.6	0.14	8.02	-100.9	6.12	19	366.18	0.17	4.87	Clear	None
1:25 PM	36.6	0.14	8.02	-102.7	6.14	19.05	363.612	0.17	2.94	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-105</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134	REMARKS:				
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-106</b>	SAMPLE ID: W-106-2023-Q2	DATE: 4/13/2023 1:13:00 PM		
TOTAL WELL DEPTH (feet) (A): 32.65	WATER TABLE DEPTH (feet) (B): 7.39	LENGTH OF WATER COLUMN (feet) (A-B): 25.26		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 24.50 - 29.50 ft	CALCULATED SYSTEM VOLUME (gallons): 4.12		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/13/2023 12:34:00 PM	PURGING END TIME: 4/13/2023 1:11:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:36 PM	0		7.41	41.9	5.83	25.81	78.3543	4.56	178.4	Murky	None
12:41 PM	0.7	0.14	7.41	-14.9	5.76	17.89	357.42	0.34	42.3	Murky	None
12:46 PM	1.4	0.14	7.41	-11.7	5.7	17.83	350.944	0.21	41.6	Murky	None
12:51 PM	2.1	0.14	7.41	-14.5	5.8	17.89	352.862	0.35	16.75	Murky	None
12:56 PM	2.8	0.14	7.41	-22.5	5.89	17.97	353.958	0.2	29.34	Murky	None
1:01 PM	3.5	0.14	7.41	-30	5.97	18.07	363.601	0.14	16.96	Clearing	None
1:06 PM	4.2	0.14	7.41	-33.1	6.01	18.3	354.848	0.12	13.45	Clearing	None
1:11 PM	4.9	0.14	7.41	-37.8	6.02	18.31	351.062	0.09	12.78	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-106</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-107</b>	SAMPLE ID: W-107-2023-Q2	DATE: 4/24/2023 11:37:00 AM		
TOTAL WELL DEPTH (feet) (A): 37.26	WATER TABLE DEPTH (feet) (B): 6.65	LENGTH OF WATER COLUMN (feet) (A-B): 30.61		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 29.00 - 34.00 ft	CALCULATED SYSTEM VOLUME (gallons): 5.00		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 34.26	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/24/2023 11:14:00 AM	PURGING END TIME: 4/24/2023 11:36:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:16 AM	0		6.67	-22.7	6.72	26.81	0.0531126	4.83	143.97	Clear	None
11:21 AM	0.6	0.12	6.67	-74.3	6.01	17.65	174.87	0.7	21.65	Clear	None
11:26 AM	1.2	0.12	6.67	-77.5	5.89	17.44	174.191	0.3	11.96	Clear	None
11:31 AM	1.8	0.12	6.67	-80	5.91	17.32	173.717	0.26	11.28	Clear	None
11:36 AM	2.4	0.12	6.67	-82.3	5.95	17.3	173.447	0.23	6.28	Clear	None

SAMPLING DATA					
<b>WELL NO: W-107</b>	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-108</b>	SAMPLE ID: W-108-2023-Q2	DATE: 4/21/2023 10:37:00 AM		
TOTAL WELL DEPTH (feet) (A): 35.86	WATER TABLE DEPTH (feet) (B): 6.57	LENGTH OF WATER COLUMN (feet) (A-B): 29.29		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 27.00 - 32.00 ft	CALCULATED SYSTEM VOLUME (gallons): 4.78		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.86	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/21/2023 9:40:00 AM	PURGING END TIME: 4/21/2023 10:35:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:40 AM	0	0.11	6.58	144.4	7.4	18.48	0.813474	8.34	0	Clear	None
9:45 AM	0.55	0.11	6.58	139.2	7.3	18.03	0.585504	8.41	0	Clear	None
9:50 AM	1.1	0.11	6.58	133.5	7.28	17.86	0.440799	8.43	0	Clear	None
9:55 AM	1.65	0.11	6.58	126.2	7.3	17.78	0.37242	8.43	0	Clear	None
10:00 AM	2.2	0.11	6.58	108.9	7.34	17.76	0.319179	8.35	0	Clear	None
10:05 AM	2.75	0.11	6.58	103.5	7.36	17.77	0.304085	8.35	0	Clear	None
10:10 AM	3.3	0.11	6.58	93.6	7.38	17.81	0.286235	8.29	0	Clear	None
10:15 AM	3.85	0.11	6.58	79.3	7.38	17.84	0.275852	8.25	0	Clear	None
10:20 AM	4.4	0.11	6.58	82.2	7.43	17.87	1.07662	8.22	0	Clear	None
10:25 AM	4.95	0.11	6.58	75.3	7.43	17.92	1.02511	8.16	0	Clear	None
10:30 AM	5.5	0.11	6.58	66.4	7.43	17.94	1.03488	8.16	0	Clear	None
10:35 AM	6.05	0.11	6.58	57.8	7.43	17.95	1.05995	8.1	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-108</b>	SAMPLED BY: Trevor Brown		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666	REMARKS:				
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-109</b>	SAMPLE ID: W-109-2023-Q2	DATE: 4/21/2023 11:28:00 AM
TOTAL WELL DEPTH (feet) (A): 34.95	WATER TABLE DEPTH (feet) (B): 6.77	LENGTH OF WATER COLUMN (feet) (A-B): 28.18
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 27.00 - 32.00 ft	CALCULATED SYSTEM VOLUME (gallons): 4.60
<b>PURGING DATA</b>		
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 31.95	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/21/2023 11:04:00 AM PURGING END TIME: 4/21/2023 11:25:00 AM PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:05 AM	0.55	0.11	6.77	-41.6	7.31	19.19	0.0617995	8.18	0	Clear	None
11:10 AM	1.1	0.11	6.77	-24	7.3	19.18	0.0618143	8.14	0	Clear	None
11:15 AM	1.65	0.11	6.77	-11.6	7.27	19.18	0.0618218	8.15	0	Clear	None
11:20 AM	2.2	0.11	6.77	-6.2	7.15	18.86	0.062245	8.18	0	Clear	None
11:25 AM	2.75	0.11	6.77	-4.6	7	18.82	0.0623001	8.16	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO: W-109</b>	SAMPLED BY: Trevor Brown		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-110</b>	SAMPLE ID: W-110-2023-Q2	DATE: 4/21/2023 1:18:00 PM		
TOTAL WELL DEPTH (feet) (A): 36.88	WATER TABLE DEPTH (feet) (B): 7.30	LENGTH OF WATER COLUMN (feet) (A-B): 29.58		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 29.00 - 34.00 ft	CALCULATED SYSTEM VOLUME (gallons): 4.83		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 33.88	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/21/2023 12:53:00 PM	PURGING END TIME: 4/21/2023 1:15:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:55 PM	0	0.1	7.3	22.1	6.56	22.54	0.0576534	7.3	0	Clear	None
1:00 PM	0.55	0.11	7.3	22	6.45	21.68	0.0586699	7.43	0	Clear	None
1:05 PM	1.1	0.11	7.3	20.5	6.66	21.67	0.0586723	7.42	0	Clear	None
1:10 PM	1.65	0.11	7.3	24.4	6.6	21.49	0.0588948	7.43	0	Clear	None
1:15 PM	2.2	0.11	7.3	23.8	6.55	21.44	0.0589479	7.43	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-110	SAMPLED BY: Trevor Brown		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-111</b>	SAMPLE ID: W-111-2023-Q2	DATE: 4/24/2023 10:45:00 AM		
TOTAL WELL DEPTH (feet) (A): 84.44	WATER TABLE DEPTH (feet) (B): 4.55	LENGTH OF WATER COLUMN (feet) (A-B): 79.89		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 76.00 - 81.00 ft	CALCULATED SYSTEM VOLUME (gallons): 13.04		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 81.44	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/24/2023 10:20:00 AM	PURGING END TIME: 4/24/2023 10:42:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:22 AM	0	0.1	4.56	-56.4	7.71	16.59	0.0654621	9.12	0	Clear	None
10:27 AM	0.5	0.1	4.55	-59.3	7.7	16.6	0.0654516	9.16	0	Clear	None
10:32 AM	1	0.1	4.55	-63.9	7.7	16.57	0.0654925	9.16	0	Clear	None
10:37 AM	1.5	0.1	4.55	-64.2	7.69	16.61	0.065435	9.14	0	Clear	None
10:42 AM	2	0.1	4.55	-61.8	7.67	16.67	0.0653424	9.12	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-111	SAMPLED BY: Trevor Brown		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-112</b>	SAMPLE ID: W-112-2023-Q2	DATE: 4/21/2023 1:43:00 PM		
TOTAL WELL DEPTH (feet) (A): 37.02	WATER TABLE DEPTH (feet) (B): 6.81	LENGTH OF WATER COLUMN (feet) (A-B): 30.21		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 29.00 - 34.00 ft	CALCULATED SYSTEM VOLUME (gallons): 4.93		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 34.02	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/21/2023 12:45:00 PM	PURGING END TIME: 4/21/2023 1:41:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
12:46 PM	0		6.81	-21	6.47	22.61	0.0575688	7.29	93.52	Clear	None
12:51 PM	0.7	0.14	6.81	-93	6.38	18.24	233.039	0.56	89.54	Close	None
12:56 PM	1.3	0.12	6.81	-101.6	6.4	18.15	232.881	0.43	59.53	Clear	None
1:01 PM	1.8	0.1	6.81	-106.1	6.42	18.43	233.643	0.36	33.43	Clear	None
1:06 PM	2.3	0.1	6.81	-98.9	6.45	18.96	232.733	0.52	35.18		
1:11 PM	2.8	0.1	6.81	-98.6	6.45	18.82	233.215	0.62	35.55	Clear	None
1:16 PM	3.3	0.1	6.81	-96.1	6.45	18.89	233.963	0.51	28.33	Clear	None
1:21 PM	3.8	0.1	6.81	-106	6.45	19.17	233.974	0.22	27.26	Clear	None
1:26 PM	4.3	0.1	6.81	-100.2	6.47	18.65	231.643	0.63	19.52	Clear	None
1:31 PM	4.8	0.1	6.81	-102.1	6.45	18.79	232.102	0.49	19.76	Clear	None
1:36 PM	5.3	0.1	6.81	-104.9	6.45	18.65	230.841	0.38	16.28	Clear	None
1:41 PM	5.8	0.1	6.81	-106.5	6.45	19.02	231.861	0.34	17.7	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-112	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-113</b>	SAMPLE ID: W-113-2023-Q2	DATE: 4/7/2023 9:04:00 AM		
TOTAL WELL DEPTH (feet) (A): 39.02	WATER TABLE DEPTH (feet) (B): 7.87	LENGTH OF WATER COLUMN (feet) (A-B): 31.15		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 31.00 - 36.00 ft	CALCULATED SYSTEM VOLUME (gallons): 5.08		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 36.02	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/7/2023 8:29:00 AM	PURGING END TIME: 4/7/2023 9:03:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:37 AM	0	0.1	8.28	67.2	6.2	19.38	89.5683	2.37	278.21	Cloudy	None
8:42 AM	0.5	0.1	8.68	111.5	5.41	18.4	81.3921	1.14	0	Clear	None
8:47 AM	1	0.1	8.82	113.1	5.58	18.54	82.609	1.07	0	Clear	None
8:52 AM	1.5	0.1	8.97	116.2	5.65	18.65	76.5918	1.02	0	Clear	None
8:57 AM	2	0.1	9.1	118.8	5.69	18.73	75.4223	0.92	0	Clear	None
9:03 AM	2.5	0.1	9.18	120.8	5.72	18.7	75.3798	0.91	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-113	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-114</b>	SAMPLE ID: W-114-2023-Q2	DATE: 4/7/2023 10:25:00 AM		
TOTAL WELL DEPTH (feet) (A): 23.52	WATER TABLE DEPTH (feet) (B): 7.14	LENGTH OF WATER COLUMN (feet) (A-B): 16.38		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 10.00 - 20.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.67		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20.52	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/7/2023 9:30:00 AM	PURGING END TIME: 4/7/2023 10:23:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC. COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:33 AM	0	0.1	7.31	165.1	5.8	19.86	90.889	3.19	1765.85	Tan	None
9:38 AM	0.5	0.1	7.4	191.8	5.43	18.77	92.1038	2.59	68.74	Cloudy	None
9:43 AM	1.5	0.1	7.44	197.4	5.43	18.73	94.9317	2.5	37.42	Cloudy	None
9:48 AM	3	0.1	7.47	200.8	5.42	18.8	96.7371	2.5	22.69	Cloudy	None
9:53 AM	5	0.1	7.5	197.6	5.5	18.82	98.3994	3.89	27.8	Cloudy	None
9:58 AM	7.5	0.1	7.53	194.2	5.56	18.73	99.6056	3.74	24.84	Cloudy	None
10:03 AM	10.5	0.1	7.54	191.4	5.6	18.74	98.2885	2.19	49.19	Cloudy	None
10:08 AM	14	0.1	9.55	188.7	5.65	18.75	97.3711	2.03	45.83	Cloudy	None
10:13 AM	18	0.1	7.57	192.2	5.58	18.51	95.8888	2.15	56.92	Cloudy	None
10:18 AM	22.5	0.1	7.58	191.4	5.58	18.67	94.7436	2.22	42.89	Cloudy	None
10:23 AM	27.5	0.1	7.59	189.4	5.61	18.6	93.1392	2.15	45.38	Cloudy	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-114	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-115</b>	SAMPLE ID: W-115-2023-Q2	DATE: 4/7/2023 11:17:00 AM		
TOTAL WELL DEPTH (feet) (A): 47.91	WATER TABLE DEPTH (feet) (B): 18.22	LENGTH OF WATER COLUMN (feet) (A-B): 29.69		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 40.50 - 45.50 ft	CALCULATED SYSTEM VOLUME (gallons): 4.36		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 44.91	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/7/2023 10:51:00 AM	PURGING END TIME: 4/7/2023 11:15:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
10:55 AM	0	0.1	18.32	193.5	5.87	25.45	103.686	2.66	148.78	Clear	None
11:00 AM	0.5	0.1	18.32	218.8	5.38	19.88	73.3718	2.21	0	Clear	None
11:05 AM	1	0.1	18.31	227.6	5.15	19.89	74.3755	2.46	0	Clear	None
11:10 AM	1.5	0.1	18.31	228.7	5.11	19.64	73.8951	2.28	0	Clear	None
11:15 AM	2	0.1	18.31	227.8	5.11	19.79	73.934	2.34	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-115	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-116</b>	SAMPLE ID: W-116-2023-Q2	DATE: 4/7/2023 12:31:00 PM		
TOTAL WELL DEPTH (feet) (A): 23.13	WATER TABLE DEPTH (feet) (B): 18.57	LENGTH OF WATER COLUMN (feet) (A-B): 4.56		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 10.00 - 20.00 ft	CALCULATED SYSTEM VOLUME (gallons): 0.74		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20.13	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/7/2023 11:40:00 AM	PURGING END TIME: 4/7/2023 12:29:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
11:44 AM	0	0.1	18.83	216.9	4.84	18.88	102.09	6.99	0	Clear	None
11:49 AM	0.5	0.1	18.89	229.2	4.58	18.61	93.2968	6.94	0	Clear	None
11:54 AM	1	0.1	18.95	242	4.51	18.4	93.6216	7.07	0	Clear	None
11:59 AM	1.5	0.1	18.98	237.7	4.52	18.45	94.0775	6.91	0	Clear	None
12:04 PM	2	0.1	19	231.4	4.57	18.42	93.8448	6.94	0	Clear	None
12:09 PM	2.5	0.1	19.01	223.3	4.63	18.38	93.423	7.1	0	Clear	None
12:14 PM	3	0.1	19.01	216.7	4.71	18.51	93.5368	6.67	0	Clear	None
12:19 PM	3.5	0.1	19.01	208.8	4.79	18.51	93.2431	6.76	0	Clear	None
12:24 PM	4	0.1	19.01	202.6	4.87	18.46	92.9949	6.81	0	Clear	None
12:29 PM	4.5	0.1	19.01	199.1	4.92	18.58	92.0938	6.87	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-116	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-117</b>	SAMPLE ID: W-117-2023-Q2	DATE: 4/7/2023 1:54:00 PM		
TOTAL WELL DEPTH (feet) (A): 46.70	WATER TABLE DEPTH (feet) (B): 22.60	LENGTH OF WATER COLUMN (feet) (A-B): 24.10		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 39.00 - 44.00 ft	CALCULATED SYSTEM VOLUME (gallons): 3.93		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43.7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/7/2023 1:22:00 PM	PURGING END TIME: 4/7/2023 1:52:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:27 PM	0	0.1	22.62	122.9	5.85	34.78	33.4154	3.58	50.78	Clear	None
1:32 PM	0.5	0.1	22.63	153.4	5.36	21.34	76.6842	3.32	7.48	Clear	None
1:37 PM	1	0.1	22.63	168	5.02	20.62	74.3018	3.87	6.38	Clear	None
1:42 PM	1.5	0.1	22.23	182.9	4.76	20.34	73.3822	4.1	0.7	Clear	None
1:47 PM	2	0.1	22.63	185	4.75	20.35	71.9744	4.24	0	Clear	None
1:52 PM	2.5	0.1	22.63	192	4.67	20.24	70.6559	4.29	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-117	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-118</b>	SAMPLE ID: W-118-2023-Q2	DATE: 4/7/2023 2:03:00 PM		
TOTAL WELL DEPTH (feet) (A): 32.47	WATER TABLE DEPTH (feet) (B): 21.32	LENGTH OF WATER COLUMN (feet) (A-B): 11.15		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 19.50 - 29.50 ft	CALCULATED SYSTEM VOLUME (gallons): 1.82		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 29.47	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/7/2023 1:39:00 PM	PURGING END TIME: 4/7/2023 2:02:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:42 PM	0	0.14	21.34	29.3	5.51	30.87	0.0494098	3.78	0	Clear	None
1:47 PM	0.7	0.14	21.34	47.2	4.83	19.76	83.8423	1.51	1.41	Clear	None
1:52 PM	1.4	0.14	21.34	43.6	4.7	19.37	84.054	1.34	0.34	Clear	None
1:57 PM	2.1	0.14	21.34	37.8	4.7	19.46	84.1691	1.31	2.17	Clear	None
2:02 PM	2.8	0.14	21.34	34.2	4.72	19.28	84.2088	1.28	1.41	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-118	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-119</b>	SAMPLE ID: W-119-2023-Q2	DATE: 4/14/2023 8:22:00 AM		
TOTAL WELL DEPTH (feet) (A): 32.98	WATER TABLE DEPTH (feet) (B): 15.71	LENGTH OF WATER COLUMN (feet) (A-B): 17.27		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 25.00 - 30.00 ft	CALCULATED SYSTEM VOLUME (gallons): 2.82		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 29.98	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/14/2023 8:00:00 AM	PURGING END TIME: 4/14/2023 8:22:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:02 AM	0	0.0008	15.73	163.6	6.25	18.35	79.8646	1.11	1.71	Clear	None
8:07 AM	0.4	0.0008	15.74	216.6	6.06	18.18	77.4379	0.25	0	Clear	None
8:12 AM	0.8	0.0008	15.75	223.5	6.07	18.18	76.962	0.21	0	Clear	None
8:17 AM	1.2	0.0008	15.75	227.6	6.08	18.17	76.5582	0.16	0	Clear	None
8:22 AM	1.6	0.0008	15.75	230.1	6.09	18.12	76.1592	0.15	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-119	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-120</b>	SAMPLE ID: W-120-2023-Q2	DATE: 4/7/2023 9:25:00 AM		
TOTAL WELL DEPTH (feet) (A): 37.00	WATER TABLE DEPTH (feet) (B): 13.85	LENGTH OF WATER COLUMN (feet) (A-B): 23.15		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 29.00 - 34.00 ft	CALCULATED SYSTEM VOLUME (gallons): 3.78		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 34	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/7/2023 9:02:00 AM	PURGING END TIME: 4/7/2023 9:24:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:04 AM	0		13.97	-32.5	6.66	25.29	148.039	6.1	0.02	Clear	None
9:09 AM	0.7	0.14	13.97	-6.4	6.05	20.82	195.591	0.9	0	Clear	None
9:14 AM	1.4	0.14	13.97	5.4	6.06	20.72	198.682	0.75	0	Clear	None
9:19 AM	2.1	0.14	13.97	7.2	6.07	20.79	197.643	0.61	0	Clear	None
9:24 AM	2.8	0.14	13.97	12.1	6.08	20.84	196.943	0.56	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-120	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-121</b>	SAMPLE ID: W-121-2023-Q2	DATE: 4/7/2023 10:32:00 AM		
TOTAL WELL DEPTH (feet) (A): 25.28	WATER TABLE DEPTH (feet) (B): 13.90	LENGTH OF WATER COLUMN (feet) (A-B): 11.38		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 12.00 - 22.00 ft	CALCULATED SYSTEM VOLUME (gallons): 1.86		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 22.28	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/7/2023 9:54:00 AM	PURGING END TIME: 4/7/2023 10:31:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:56 AM	0		14.07	3.8	5.89	29.33	63.2364	5.74	3.07	Clear	None
10:01 AM	0.6	0.12	14.1	100.3	4.83	21.05	67.6126	2.02	0	Clear	None
10:06 AM	1.2	0.12	14.13	129.8	4.6	20.98	68.4823	1.9	0	Clear	None
10:11 AM	1.8	0.12	14.16	140.1	4.59	20.69	68.6727	1.81	0	Clear	None
10:16 AM	2.4	0.12	14.18	147.6	4.57	20.57	69.113	1.73	0	Clear	None
10:21 AM	3	0.12	14.18	155	4.6	20.49	69.2811	1.66	0	Clear	None
10:26 AM	3.6	0.12	14.18	157.8	4.66	20.52	69.5337	1.6	0.02	Clear	None
10:31 AM	4.2	0.12	14.18	159.4	4.76	20.51	69.8082	1.55	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-121	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-122</b>	SAMPLE ID: W-122-2023-Q2	DATE: 4/13/2023 8:50:00 AM		
TOTAL WELL DEPTH (feet) (A): 33.12	WATER TABLE DEPTH (feet) (B): 7.36	LENGTH OF WATER COLUMN (feet) (A-B): 25.76		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 25.00 - 30.00 ft	CALCULATED SYSTEM VOLUME (gallons): 4.20		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30.12	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/13/2023 8:21:00 AM	PURGING END TIME: 4/13/2023 8:49:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:24 AM	0	0.1	7.66	137.3	7	22.17	17.9162	3.34	14.9	Clear	None
8:29 AM	0.5	0.1	7.9	128.8	6.66	18.87	39.341	1.07	4.48	Clear	None
8:34 AM	1	0.08	7.85	104.2	6.67	18.77	38.8574	0.86	0	Clear	None
8:39 AM	1.4	0.08	7.85	97	6.67	18.91	38.7543	0.7	0	Clear	None
8:44 AM	1.8	0.08	7.85	95.5	6.67	18.98	38.6445	0.59	0.47	Clear	None
8:49 AM	2.2	0.08	7.85	91.2	6.66	19.16	38.6421	0.51	0	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-122	SAMPLED BY: James Leaphart		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1017872 WL/int meter: Solinst 101 # 5666		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units   Temperature: + 3%   Specific Conductance: + 3%   Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater)   ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

WELL NO: W-123	SAMPLE ID: W-123-2023-Q2	DATE: 4/6/2023 9:13:00 AM		
TOTAL WELL DEPTH (feet) (A): 34.65	WATER TABLE DEPTH (feet) (B): 13.08	LENGTH OF WATER COLUMN (feet) (A-B): 21.57		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 29.00 - 34.00 ft	CALCULATED SYSTEM VOLUME (gallons): 3.52		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 31.65	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/6/2023 8:42:00 AM	PURGING END TIME: 4/6/2023 9:12:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC. COND. (µs/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
8:47 AM	0		13.23	-110.8	8.07	21.34	1492.35	1.24	0	Clear	None
8:52 AM	0.6	0.12	13.46	-119.8	8.08	21.08	1487.94	0.55	1.49	Clear	None
8:57 AM	1.3	0.14	13.48	-126.2	8.08	21.16	1485.84	0.41	5.07	Clear	None
9:02 AM	2	0.14	13.48	-132	8.07	21.27	1483.06	0.33	5.52	Clear	None
9:07 AM	2.7	0.14	13.48	-137	8.07	21.32	1478.77	0.27	8.01	Clear	None
9:12 AM	3.4	0.14	13.48	-141.4	8.06	21.42	1476.89	0.22	12.66	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-123	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE: W-123-2023-Q2-Dup	
FIELD EQUIPMENT USED: Field param meter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-124</b>	SAMPLE ID: W-124-2023-Q2	DATE: 4/21/2023 9:43:00 AM		
TOTAL WELL DEPTH (feet) (A): 33.55	WATER TABLE DEPTH (feet) (B): 8.68	LENGTH OF WATER COLUMN (feet) (A-B): 24.87		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 26.00 - 31.00 ft	CALCULATED SYSTEM VOLUME (gallons): 4.06		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30.55	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/21/2023 8:59:00 AM	PURGING END TIME: 4/21/2023 9:41:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:01 AM	0		8.7	-97.5	5.71	17.93	134.219	3.63	61.45	Clear	None
9:06 AM	0.7	0.14	8.7	-78.1	5.33	17.38	111.782	0.47	13.28	Clear	None
9:11 AM	1.4	0.14	8.7	-89.1	5.48	17.39	115.734	0.3	30.12	Clear	None
9:16 AM	2.1	0.14	8.7	-114	5.6	17.48	118.274	0.58	36.12	Clear	None
9:21 AM	2.8	0.14	8.7	-119.3	5.67	17.59	121.137	0.9	27.15	Clear	None
9:26 AM	3.5	0.14	8.7	-117.8	5.57	17.76	115.719	0.34	7.82	Clear	None
9:31 AM	4.2	0.14	8.7	-126.7	5.75	18.07	123.987	0.23	14.23	Clear	None
9:36 AM	4.9	0.14	8.7	-124.2	5.8	18.33	125.878	0.21	8	Clear	None
9:41 AM	5.6	0.14	8.7	-120.9	5.78	18.6	124.319	0.19	9.82	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-124	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## GROUNDWATER SAMPLING LOG

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-125</b>	SAMPLE ID: W-125-2023-Q2	DATE: 4/19/2023 2:22:00 PM		
TOTAL WELL DEPTH (feet) (A): 47.49	WATER TABLE DEPTH (feet) (B): 8.90	LENGTH OF WATER COLUMN (feet) (A-B): 38.59		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 40.00 - 45.00 ft	CALCULATED SYSTEM VOLUME (gallons): 6.30		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 44.49	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/19/2023 1:44:00 PM	PURGING END TIME: 4/19/2023 2:20:00 PM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1:45 PM	0		8.91	-31.7	6.51	23.91	4.78842	5.41	21.4	Clear	None
1:50 PM	0.7	0.14	8.91	-138.1	6.07	19.67	345.749	0.75	88.28	Clear	None
1:55 PM	1.4	0.14	8.91	-153.2	6.02	19.37	347.212	0.31	27.63	Clear	None
2:00 PM	2.1	0.14	8.91	-159.5	6.03	19.52	343.081	0.42	12.01	Clear	None
2:05 PM	2.8	0.14	8.91	-165	6.06	19.43	345.82	0.34	39.74	Clear	None
2:10 PM	3.5	0.14	8.91	-171.9	6.1	19.56	348.512	0.17	47.69	Clear	None
2:15 PM	4.2	0.14	8.91	-177	6.13	19.37	343.597	0.14	68.56	Clear	None
2:20 PM	4.9	0.14	8.91	-178.3	6.13	19.51	343.99	0.16	35.37	Clear	None

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-125	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO & TOTAL U ICPMS	GEL

## Low Flow Groundwater Sample Collection Record

<b>WELL NO: W-126</b>	SAMPLE ID: W-126-2023-Q2	DATE: 4/20/2023 10:20:00 AM		
TOTAL WELL DEPTH (feet) (A): 46.55	WATER TABLE DEPTH (feet) (B): 6.95	LENGTH OF WATER COLUMN (feet) (A-B): 39.60		
CASING DIAMETER / MATL: 2 in, PVC	WELL SCREEN INTERVAL DEPTH: 37.50 - 42.50 ft	CALCULATED SYSTEM VOLUME (gallons): 6.46		
<b>PURGING DATA</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43.55	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded	PURGING START TIME: 4/20/2023 9:56:00 AM	PURGING END TIME: 4/20/2023 10:18:00 AM	PUMP TYPE: Peristaltic

Time	Cumulative Volume Purged (L)	Purge Rate (L/min)	Depth to Water (ft)	ORP (mv)	pH (SU)	TEMP (degC)	SPEC.COND. (us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
9:58 AM	0		6.96	-99.2	7.46	28.42	3.36365	4.22	407.01	Clear	None
10:03 AM	0.7	0.14	6.96	-119.8	6.26	19.63	253.431	0.54	51.51	Clear	None
10:08 AM	1.4	0.14	6.96	-131.5	6.27	19.5	253.167	0.28	49.59	Clear	None
10:13 AM	2.1	0.14	6.96	-138.4	6.31	19.44	254.114	0.16	78.46	Clear	None
10:18 AM	2.8	0.14	6.96	-132.5	6.31	19.38	253.587	0.33	19.66	None	

## GROUNDWATER SAMPLING LOG

SAMPLING DATA					
<b>WELL NO:</b> W-126	SAMPLED BY: Randy Crews		SAMPLING START TIME:	SAMPLING END TIME:	
TUBING MATERIAL: Teflon	PUMP OR TUBING DEPTH IN WELL (feet): Not Recorded			DUPLICATE:	
FIELD EQUIPMENT USED: Field parameter: In-Situ AquaTroll 600 # 1012710 WL/int meter: Solinst 101 # 322134		REMARKS:			
<b>NOTES:</b> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: pH: + 1.0 units Temperature: + 3% Specific Conductance: + 3% Dissolved Oxygen: optionally, + 0.2 mg/L or + 10% (whichever is greater) ORP: + 10 mV Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)					

# of bottles	Size	Material	Preservative	Analysis	Lab
3	40 ml	VOA vial	HCL	VOCs	Pace
1	250 ml	Poly	None	Nitrate,Fluoride	Pace
2	1 L	Poly	HNO3	Tc-99,ISO U HASL,ISO & TOTAL U ICPMS	GEL

## **Appendix C**

### **Historical Groundwater Analytical Results**

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-RW1 4/16/2019	W-RW1 10/03/19	W-RW1 04/15/20	W-RW1 10/14/20	W-RW1 04/13/21	W-RW1 10/14/21	W-RW1 04/12/22	W-RW1 10/12/22	W-RW1 04/13/23	W-RW2 01/12/15	W-RW2 04/09/15	W-RW2 07/10/15	W-RW2 10/09/15	W-RW2 10/09/15	W-RW2 01/20/16	W-RW2 04/18/16	W-RW2 07/05/16	W-RW2 10/06/16	W-RW2 1/10/2017	W-RW2 1/10/2017	W-RW2 1/10/2017	W-RW2 1/10/2017				
Group	Analyte	MCL	note	Units																									
Radiological	Alpha particles	15	*	pCi/L	0.934 #	2.51 #	1.01 #	1.00 #	0 ##	2.13 #	0.367 #	1.21 #	NA	NA	1.15 #	0 ##	0 ##	5.10	1.17 #	0 ##	0.835 #	2.35 #	2.68	2.79 #	4.09 #	3.13	4.36 #	2.21 #	5.65
Radiological	Beta particles	50	*	pCi/L	5.56	3.98	1.65 #	1.66 #	3.75 #	2.32 #	1.03 #	5.69	NA	NA	11.5	6.31	6.58	10.8	10.8	6.31	6.49	8.32	7.07	6.56	7.10	10.4	10.8	8.87	8.31
Radiological	Tritium			pCi/L	NA	21.2 #	57.8 #	0 ##	54.8 #	0 ##	0 ##	216 #	104 #	0 ##	0 ##	124 #	212 #	179 #	40.7 #	0 ##									
Radiological	Technetium-99	900		pCi/L	0 ##	1.40 #	0.209 #	1.10 #	0.682 #	0.0163 #	0.147 #	1.04 #	2.72 #	0 ##	22.9 #	0 ##	0 ##	66.0 #	84.8 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Uranium-233/234			pCi/L	0 ##	0.126 #	0.195 #	NA	0.127 #	0.246 #	0.171 #	0 ##	NA	0.137 #	NA	NA	NA	NA	NA	NA	NA								
Radiological	Uranium-235/236			pCi/L	0.0695 #	0.139 #	0.0329 #	NA	0 ##	0.135 #	0.131 #	0 ##	NA	0.0698 #	NA	NA	NA	NA	NA	NA	NA								
Radiological	Uranium-238			pCi/L	0 ##	0.169 #	0 ##	NA	0.0704 #	0.0601 #	0.00168 #	0.0773 #	NA	0.0180 #	NA	NA	NA	NA	NA	NA	NA								
Radiological	Percent Uranium-235		%	##	0 #	0 #	NA	0 #	0 #	NA	0 #	NA	NA	NA	NA	NA	NA												
Radiological	Uranium-234			ug/L	<0.0500	<0.050	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Radiological	Uranium-235			ug/L	<0.0700	<0.070	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Radiological	Uranium-238			ug/L	<0.200	0.0815 J	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Radiological	Total Uranium Isotopes	30		ug/L	<0.200	0.0815 J	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Chemical	Fluoride	4		mg/L	NA	0.055	0.06	0.047 J	0.0460 J	0.037 J	<0.10	<0.10	<0.10	NA	NA	NA	NA	NA	NA										
Chemical	Nitrate as N	10		mg/L	2.5	2	1.8	1.8	2.0	1.7	1.8	2.7	30	19	21	26	25	19	19	23	24	20	19	19	20	20	20		
Chemical	Ammonia as N			mg/L	NA	0.0129	0.0196	0.0171 J	0.0199 J	0.0197 J	NA	NA	NA	NA	NA	NA													
Metals	Aluminum			ug/L	NA	147 J	<200	NA	NA	NA	NA	NA																	
Metals	Antimony	6		ug/L	NA	<20.0	9.02 J	NA	NA	NA	NA	NA																	
Metals	Arsenic	10		ug/L	NA	<30.0	<30.0	NA	NA	NA	NA	NA																	
Metals	Barium	2000		ug/L	NA	48.2	53.9	NA	NA	NA	NA	NA																	
Metals	Beryllium	4		ug/L	NA	<5.00	<5.00	NA	NA	NA	NA	NA																	
Metals	Cadmium	5		ug/L	NA	<5.00	<5.00	NA	NA	NA	NA	NA																	
Metals	Calcium			ug/L	NA	4600	5340	NA	NA	NA	NA	NA																	
Metals	Chromium	100		ug/L	NA	3.46 J	1.69 J	NA	NA	NA	NA	NA																	
Metals	Cobalt			ug/L	NA	2.5 J	2.44 J	NA	NA	NA	NA	NA																	
Metals	Copper	1300		ug/L	NA	<20.0	<20.0	NA	NA	NA	NA	NA																	
Metals	Iron			ug/L	NA	134	<100	NA	NA	NA	NA	NA																	
Metals	Lead	15		ug/L	NA	<20.0	<20.0	NA	NA	NA	NA	NA																	
Metals	Magnesium			ug/L	NA	1580	1840	NA	NA	NA	NA	NA																	
Metals	Manganese			ug/L	NA	38	28.4	NA	NA	NA	NA	NA																	
Metals	Mercury	2		ug/L	NA	<0.200	0.078 J	NA	NA	NA	NA	NA																	
Metals	Nickel			ug/L	NA	4480	3630	NA	NA	NA	NA	NA																	
Metals	Potassium			ug/L	NA	1570	1580	NA	NA	NA																			

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-RW1 4/16/2019 N	W-RW1 10/03/19 N	W-RW1 04/15/20 N	W-RW1 10/14/20 N	W-RW1 04/13/21 N	W-RW1 10/14/21 N	W-RW1 04/12/22 FD	W-RW1 10/12/22 N	W-RW1 04/13/23 N	W-RW2 01/12/15 N	W-RW2 04/09/15 N	W-RW2 07/10/15 N	W-RW2 10/09/15 FD	W-RW2 10/09/15 N	W-RW2 01/20/16 N	W-RW2 04/18/16 N	W-RW2 07/05/16 N	W-RW2 10/06/16 N	W-RW2 1/10/2017 N	W-RW2 1/10/2017 N	W-RW2 1/10/2017 N	W-RW2 1/10/2017 N		
Group	Analyte	MCL note	Units																							
SVOCs	Caprolactam		ug/L	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	< 26	< 25	< 25	NA	< 25	< 25	56	< 27	< 8	< 8	140	< 8	< 8	< 8
SVOCs	Carbazole		ug/L	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 5.4	< 4	< 4	< 8	< 4	< 4	< 4	< 4
SVOCs	Chrysene		ug/L	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 5.4	< 0.8	< 1.6	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
SVOCs	Di-n-butyl phthalate		ug/L	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 5.4	< 4	< 4	< 8	< 4	< 4	< 4	< 4
SVOCs	Di-n-octyl phthalate		ug/L	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 5.4	< 4	< 4	< 8	< 4	< 4	< 4	< 4
SVOCs	Dibenz(a,h)anthracene		ug/L	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 5.4	< 0.8	< 0.8	< 1.6	< 0.8	< 0.8	< 0.8	< 0.8
SVOCs	Dibenzofuran		ug/L	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 5.4	< 4	< 4	< 8	< 4	< 4	< 4	< 4
SVOCs	Diethyl phthalate		ug/L	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 5.4	< 4	< 4	< 8	< 4	< 4	< 4	< 4
SVOCs	Dimethyl phthalate		ug/L	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 5.4	< 4	< 4	< 8	< 4	< 4	< 4	< 4
SVOCs	Fluoranthene		ug/L	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 5.4	< 0.8	< 0.8	< 1.6	< 0.8	< 0.8	< 0.8	< 0.8
SVOCs	Fluorene		ug/L	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 5.4	< 0.8	< 0.8	< 1.6	< 0.8	< 0.8	< 0.8	< 0.8
SVOCs	Hexachlorobenzene	1	ug/L	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 5.4	< 4	< 4	< 8	< 4	< 4	< 4	< 4
SVOCs	Hexachlorobutadiene		ug/L	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 5.4	< 4	< 4	< 8	< 4	< 4	< 4	< 4
SVOCs	Hexachlorocyclopentadiene	50	ug/L	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 26	< 25	< 25	NA	< 25	< 25	< 27	< 20	< 40	< 20	< 20	< 20	< 20	< 20
SVOCs	Hexachloroethane		ug/L	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 5.4	< 4	< 4	< 8	< 4	< 4	< 4	< 4
SVOCs	Indeno(1,2,3-cd)pyrene		ug/L	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 5.4	< 0.8	< 0.8	< 1.6	< 0.8	< 0.8	< 0.8	< 0.8
SVOCs	Isophorone		ug/L	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 5.4	< 4	< 4	< 8	< 4	< 4	< 4	< 4
SVOCs	N-Nitrosodi-n-propylamine		ug/L	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 5.4	< 4	< 4	< 8	< 4	< 4	< 4	< 4
SVOCs	N-Nitrosodiphenylamine		ug/L	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 5.4	< 4	< 4	< 8	< 4	< 4	< 4	< 4
SVOCs	Naphthalene		ug/L	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 5.4	< 0.8	< 0.8	< 1.6	< 0.8	< 0.8	< 0.8	< 0.8
SVOCs	Nitrobenzene		ug/L	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 5.4	< 4	< 4	< 8	< 4	< 4	< 4	< 4
SVOCs	Pentachlorophenol	1	ug/L	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 26	< 25	< 25	NA	< 25	< 25	< 25	< 27	< 20	< 40	< 20	< 20	< 20	< 20
SVOCs	Pentachlorophenol (SIM)	1	ug/L	NA	NA	NA	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Phenanthrene		ug/L	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 5.4	< 0.8	< 0.8	< 1.6	< 0.8	< 0.8	< 0.8	< 0.8
SVOCs	Phenol		ug/L	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 5.4	< 4	< 4	< 8	< 4	< 4	< 4	< 4
SVOCs	Pyrene		ug/L	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 5.4	< 0.8	< 0.8	< 1.6	< 0.8	< 0.8	< 0.8	< 0.8
VOCs	Acetone		ug/L	< 20</																						

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-RW2 1/10/2017	W-RW2 1/10/2017	W-RW2 1/10/2017	W-RW2 10/11/2019	W-RW2 4/20/2020	W-RW2 10/16/2020	W-RW2 4/16/2021	W-RW2 10/21/2021	W-RW2 4/14/2022	W-RW2 4/14/2022	W-RW2 10/17/2022	W-RW2 10/17/2022	W-3A 4/14/2023	W-3A 1/21/2015	W-3A 4/16/2015	W-3A 7/16/2015	W-3A 10/14/2015	W-3A 1/20/2016	W-3A 4/21/2016	W-3A 7/13/2016	W-3A 10/18/2016	W-3A 1/16/2017	W-3A 4/7/2017	W-3A 7/12/2017	W-3A 10/3/2017	
Group	Analyte	MCL	note	Units																									
Radiological	Alpha particles	15	*	pCi/L	7.92	3.32 #	3.73 #	2.00 #	3.17 #	1.44 #	0 ##	0.577 #	1.91 #	0.863 #	NA	NA	0.747 #	0.587 #	0.348 #	2.24 #	0.170 #	0 ##	0.381 #	2.82	1.20 #	4.60	0 ##	3.16 #	1.99 #
Radiological	Beta particles	50	*	pCi/L	13.2	7.07	9.11	11.9	3.53 #	3.46 #	2.18 #	5.46	2.77 #	7.17	3.39 #	5.50	1.52 #	2.58 #	1.18 #	2.58 #	0.298 #	4.78	3.10 #	7.30	4.26	3.96 #	2.48 #	4.59	
Radiological	Tritium			pCi/L	76.6 #	95.0 #	0 ##	270 #	79.8 #	0 ##	15.3 #	39.1 #	0 ##	12.8 #	60.9 #	171 #	0 ##	51.3 #	320 #	0 ##	0 ##	0 ##	0 ##	NA	NA	NA	NA	NA	NA
Radiological	Technetium-99	900		pCi/L	NA	NA	0 ##	23.1 #	3.26 #	10.6	3.57 #	6.40	7.98	7.88	8.92	9.47	3.43 #	0 ##	0 ##	74.7 #	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-233/234			pCi/L	NA	NA	0.323	0.252 #	0.00526 #	NA	0.0778 #	0.134 #	0.00130 #	0.0782 #	NA	NA	0.153 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-235/236			pCi/L	NA	NA	0.366	0.107 #	0 ##	NA	0 ##	0.0295 #	0.0436 #	0.0203 #	NA	NA	0.145 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-238			pCi/L	NA	NA	0.495	0.0958 #	0.0482 #	NA	0.0864 #	0.582	0.0562 #	0.0643 #	NA	NA	0.101 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Percent Uranium-235	%	NA	NA	10.3	0 #	0 #	NA	0 #	0 #	NA	0 #	0 #	NA	NA	0 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Uranium-234	ug/L	NA	< 0.0500	< 0.0500	< 0.050	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Uranium-235	ug/L	NA	< 0.0700	< 0.0700	< 0.070	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Uranium-238	ug/L	NA	< 0.200	0.079 J	0.0743 J	< 0.200	0.116 J	0.0834 J	0.0739 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Total Uranium Isotopes	30	ug/L	NA	< 0.200	0.079 J	0.0743 J	< 0.200	0.116 J	0.0834 J	0.0739 J	0	0	< 0.200	< 0.200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Chemical	Fluoride	4	mg/L	NA	NA	0.099	0.089	0.115	0.128	0.125	0.19	0.17	0.14	0.16	0.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chemical	Nitrate as N	10	mg/L	14	14	20	12	21	9.7	16	14	13	13	8.1	< 0.02	< 0.02	< 0.02	0.034	< 0.02	0.11	0.039	< 0.02	< 0.02	0.066	0.062				
Chemical	Ammonia as N		mg/L	NA	NA	0.0581	0.0204	0.081 J	0.0234 J	0.0207 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Aluminum		ug/L	NA	NA	NA	NA	NA	120 J	< 200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Antimony	6	ug/L	NA	NA	NA	NA	NA	< 20.0	4.03 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Arsenic	10	ug/L	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Barium	2000	ug/L	NA	NA	NA	NA	NA	106	68.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Beryllium	4	ug/L	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Cadmium	5	ug/L	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Calcium		ug/L	NA	NA	NA	NA	NA	16600	11600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Chromium	100	ug/L	NA	NA	NA	NA	NA	< 10.0	1.06 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Cobalt		ug/L	NA	NA	NA	NA	NA	4.14 J	3.45 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Copper	1300	ug/L	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Iron		ug/L	NA	NA	NA	NA	NA	< 100	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Lead	15	ug/L	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Magnesium		ug/L	NA	NA	NA	NA	NA	3500	2420	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Manganese		ug/L	NA	NA	NA	NA	NA	90.3	57.1																			

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-RW2 1/10/2017 N	W-RW2 1/10/2017 N	W-RW2 1/10/2017 N	W-RW2 10/11/2019 N	W-RW2 4/20/2020 N	W-RW2 10/16/2020 N	W-RW2 4/16/2021 N	W-RW2 10/21/2021 N	W-RW2 4/14/2022 FD	W-RW2 4/14/2022 N	W-RW2 10/17/2022 N	W-RW2 10/17/22 FD	W-RW2 4/14/2023 N	W-3A 1/21/2015 N	W-3A 4/16/2015 N	W-3A 7/16/2015 N	W-3A 10/14/15 N	W-3A 1/20/2016 N	W-3A 4/21/2016 N	W-3A 7/13/2016 N	W-3A 10/18/2016 N	W-3A 1/16/2017 N	W-3A 4/7/2017 N	W-3A 7/12/2017 N	W-3A 10/3/2017 N
Group	Analyte	MCL	note	Units																							
SVOCs	Caprolactam			ug/L	< 8	< 8	< 8	< 8.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Carbazole			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Chrysene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Di-n-butyl phthalate			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Di-n-octyl phthalate			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Dibenz(a,h)anthracene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Dibenzofuran			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Diethyl phthalate			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Dimethyl phthalate			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Fluoranthene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Fluorene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Hexachlorobenzene	1		ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Hexachlorobutadiene			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Hexachlorocyclopentadiene	50		ug/L	< 20	< 20	< 20	< 20	< 20	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Hexachloroethane			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Isophorone			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	N-Nitrosodi-n-propylamine			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	N-Nitrosodiphenylamine			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Naphthalene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Nitrobenzene			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Pentachlorophenol	1		ug/L	< 20	< 20	< 20	< 20	< 20	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	< 1.0	< 0.94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Phenanthrene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Phenol			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Pyrene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	Acetone			ug/L	< 20	< 20																					

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-3A 1/15/2018	W-3A 4/22/2018	W-3A 7/15/2018	W-3A 10/29/2018	W-3A 11/29/2018	W-3A 1/29/2019	W-3A 10/10/2019	W-3A 4/27/2020	W-3A 10/26/2020	W-3A 4/23/2021	W-3A 6/10/2021	W-3A 10/25/2021	W-3A 4/21/2022	W-3A 10/20/2022	W-3A 4/20/2023	W-4 1/28/2019	W-4 10/11/2019	W-4 4/27/2020	W-4 10/27/2020	W-4 4/23/2021	W-4R 8/4/2021	W-4R 10/25/2021	W-4R 4/25/2022	W-4R 10/20/2022			
Group	Analyte	MCL	note	Units																										
Radiological	Alpha particles	15	*	pCi/L	2.96	0.242 #	1.66 #	1.04 #	0.554 #	2.01 #	0.683 #	2.36 #	3.56 #	5.35	0.898 #	NA	2.10 #	0.0801	NA	NA	1.89 #	3.36 #	0 ##	1.23 #	11.9	0.0202 #	0.170 #	3.66	NA	
Radiological	Beta particles	50	*	pCi/L	4.81	0.346 #	3.49 #	1.99 #	1.86 #	0 ##	2.62 #	1.15 #	2.21 #	46.0	2.38 #	NA	5.86	1.46 #	NA	NA	28.6	19.4	20.9	26.4	17.5	0 ##	0.278 #	2.13 #	NA	
Radiological	Tritium			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Radiological	Technetium-99	900		pCi/L	NA	NA	NA	NA	NA	18.2 #	0.904 #	0 ##	7.25 #	0 ##	0.525 #	NA	0 ##	0.00772 #	0 ##	0.146 #	12.4 #	41.3	24.5	25.5	14.6	2.39 #	0.442 #	3.12 #	0.693 #	
Radiological	Uranium-233/234			pCi/L	NA	NA	NA	NA	NA	0 ##	0 ##	0.118 #	0.287 #	0.0204 #	NA	0 ##	0.269 #	NA	0.0963 #	0.541	0.313	0.112 #	NA	0.484	0 ##	0 ##	0.0547 #	NA		
Radiological	Uranium-235/236			pCi/L	NA	NA	NA	NA	NA	0.0350 #	0 ##	0.196 #	0.0414 #	0 #	NA	0.0527 #	NA	0 ##	0.0705 #	NA	0.0402 #	0.318	0.124 #	0 ##	NA	0.0587	0.103 #	0.0179 #	0.0271 #	NA
Radiological	Uranium-238			pCi/L	NA	NA	NA	NA	NA	0.0298 #	0.0426 #	0.0882 #	0.145 #	0.0308 #	NA	0 ##	NA	0.0616 #	0.123 #	NA	0.0548 #	0.101 #	0.392	0.116 #	NA	0.601	0.0833 #	0 ##	0.0230 #	NA
Radiological	Percent Uranium-235	%		NA	NA	NA	NA	NA	0 #	0 #	0 #	0 #	NA	0 #	NA	0 #	NA	0 #	NA	32.9	0 #	0 #	NA	1.49	0 #	0 #	0 #	NA		
Radiological	Uranium-234			ug/L	NA	NA	NA	NA	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	NA	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Radiological	Uranium-235			ug/L	NA	NA	NA	NA	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	NA	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700
Radiological	Uranium-238			ug/L	NA	NA	NA	NA	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	NA	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200
Radiological	Total Uranium Isotopes	30		ug/L	NA	NA	NA	NA	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	NA	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	
Chemical	Fluoride	4		mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.015	< 0.1	NA	0.015	J	0.10 J	0.0193 J	NA	NA	NA	NA	0.104	0.154	0.12	0.11
Chemical	Nitrate as N	10		mg/L	< 0.02	< 0.02	66	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	NA	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	8.4	0.023	1.4	0.61	0.12	0.044	< 0.020	0.22	0.037
Chemical	Ammonia as N			mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Aluminum			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	105 J	< 200	NA	NA	NA	NA	NA	NA	
Metals	Antimony	6		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	
Metals	Arsenic	10		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	
Metals	Barium	2000		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.1	66.6	NA	NA	NA	NA	NA	NA
Metals	Beryllium	4		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	
Metals	Cadmium	5		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	
Metals	Calcium			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12100	12000	NA	NA	NA	NA	NA	NA	
Metals	Chromium	100		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 10.0	< 10.0	NA	NA	NA	NA	NA	NA	
Metals	Cobalt			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.19 J	< 5.00	NA	NA	NA	NA	NA	NA	
Metals	Copper	1300		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	
Metals	Iron	15		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	562	534	NA	NA	NA	NA	NA	NA	
Met																														

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Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-3A 1/15/2018	W-3A 4/22/2018	W-3A 7/15/2018	W-3A 10/29/2018	W-3A 11/29/2018	W-3A 1/29/2019	W-3A 10/10/2019	W-3A 4/27/2020	W-3A 10/26/2020	W-3A 4/23/2021	W-3A 6/10/2021	W-3A 10/25/2021	W-3A 4/21/2022	W-3A 10/20/2022	W-3A 4/20/2023	W-4 1/28/2019	W-4 10/11/2019	W-4 4/27/2020	W-4 10/27/2020	W-4 4/23/2021	W-4 8/4/2021	W-4R 10/25/2021	W-4R 4/25/2022	W-4R 10/20/2022	
Group	Analyte	MCL	note	Units																							
SVOCs	Caprolactam			ug/L	NA	NA	NA	NA	< 8	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA
SVOCs	Carbazole			ug/L	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA
SVOCs	Chrysene			ug/L	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA
SVOCs	Di-n-butyl phthalate			ug/L	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA
SVOCs	Di-n-octyl phthalate			ug/L	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA
SVOCs	Dibenz(a,h)anthracene			ug/L	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA
SVOCs	Dibenzofuran			ug/L	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA
SVOCs	Diethyl phthalate			ug/L	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA
SVOCs	Dimethyl phthalate			ug/L	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA
SVOCs	Fluoranthene			ug/L	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA
SVOCs	Fluorene			ug/L	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA
SVOCs	Hexachlorobenzene	1		ug/L	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA
SVOCs	Hexachlorobutadiene			ug/L	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA
SVOCs	Hexachlorocyclopentadiene	50		ug/L	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA
SVOCs	Hexachloroethane			ug/L	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA
SVOCs	Isophorone			ug/L	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA
SVOCs	N-Nitrosodi-n-propylamine			ug/L	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA
SVOCs	N-Nitrosodiphenylamine			ug/L	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA
SVOCs	Naphthalene			ug/L	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA
SVOCs	Nitrobenzene			ug/L	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA
SVOCs	Pentachlorophenol	1		ug/L	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	< 1.0	< 1.0	NA	NA	NA	NA
SVOCs	Phenanthrene			ug/L	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA
SVOCs	Phenol			ug/L	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA
SVOCs	Pyrene			ug/L	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA
VOCs	Acetone			ug/L	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA
VOCs	Benzene	5		ug/L	NA	NA	NA	NA	< 5	< 5	< 1	< 1	< 1.0	< 1.0	NA</td												

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			Well Date Type	W-4R 4/21/2023	W-6 N 11/5/2018	W-6 N 1/15/2019	W-6 N 10/7/2019	W-6 N 4/7/2020	W-6 N 10/8/2020	W-6 N 4/15/2021	W-6 N 10/7/2022	W-6 N 1/5/2023	W-6 FD 1/5/2023	W-6 N 4/11/2023	W-7A N 7/8/2016	W-7A N 10/11/2016	W-7A N 1/17/2017	W-7A N 4/6/2017	W-7A N 7/10/2017	W-7A N 10/12/2017	W-7A N 1/8/2018	W-7A N 4/16/2018	W-7A N 10/19/2018	W-7A N 1/14/2019	W-7A N 6/4/2019	W-7A N 10/9/2019			
Group	Analyte	MCL	note	Units																									
Radiological	Alpha particles	15	*	pCi/L	NA	8.41	34.6	9.09	37.6	5.50	47.2	13.5	7.32	NA	NA	NA	0.285 #	2.24 #	15.4	4.22 #	19.8	9.10	9.24	7.71	3.38 #	6.28 #	14.5	6.35	
Radiological	Beta particles	50	*	pCi/L	NA	765	1620	1370	1260	1450	1270	1290	987	NA	NA	NA	149	123	125	262	150	131	141	124	110	123	142	114	
Radiological	Tritium			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0 #	0 #	219 #	42.4 #	0 #	0 #	210 #	0 #	0 #	99.7 #	205 #	0 #		
Radiological	Technetium-99	900		pCi/L	5.42	861	2370	2440	2450	2650	2830	2500	2230	2380	NA	NA	1750	378	254	NA	NA	185	209	211	212	175	160	176	210
Radiological	Uranium-233/234			pCi/L	0.0529 #	1.00	0.397	0.372	0.0213 #	NA	0.471 #	0.255	0.227 #	NA	NA	0 #	NA	0.289 #	NA	1.78	NA	NA	NA	NA	NA	0.559	0.378	0.409	
Radiological	Uranium-235/236			pCi/L	0.0525 #	0.0392 #	0.153 #	0.0443 #	0 #	NA	0.0858 #	0.152 #	0 #	NA	NA	0.0984 #	NA	NA	0.246 #	NA	0.257 #	NA	NA	NA	NA	0.207 #	0.0157 #	0.0909 #	
Radiological	Uranium-238			pCi/L	0.0969 #	0.311 #	0.327	0.153 #	0.0977 #	NA	0 #	0.167	0.0894 #	NA	NA	0.0461 #	NA	NA	0 #	NA	0.828	NA	NA	NA	NA	0.558	0.0818 #	0.259	
Radiological	Percent Uranium-235		%	#	0 #	0 #	0 #	0 #	0 #	NA	0 #	0 #	NA	NA	0 #	NA	0 #	NA	0 #	NA	0 #	NA	NA	NA	0 #	0 #			
Radiological	Uranium-234		ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	NA	NA	< 0.0500	NA	NA	NA	NA	NA	NA	NA	< 0.0500	< 0.0500	< 0.0500		
Radiological	Uranium-235		ug/L	< 0.0700	0.011 J	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	NA	NA	< 0.0700	NA	NA	NA	NA	NA	NA	NA	< 0.0700	< 0.0700	< 0.0700		
Radiological	Uranium-238		ug/L	< 0.200	0.409	0.2	0.232	0.183 J	0.224	0.280	0.321	0.322	0.175 J	NA	NA	0.101 J	NA	NA	NA	NA	NA	NA	NA	NA	0.691	0.719	0.812	0.698	
Radiological	Total Uranium Isotopes	30	ug/L	< 0.200	0.42	0.2	0.232	0.183 J	0.224	0.280	0.321	0.322	0.175 J	NA	NA	0.101 J	NA	NA	NA	NA	NA	NA	NA	NA	0.691	0.719	0.812	0.698	
Chemical	Fluoride	4	mg/L	< 0.10	NA	NA	0.126	0.112	0.14	0.0180 J	0.233	0.21	NA	0.24	0.24	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.47
Chemical	Nitrate as N	10	mg/L	0.23	14	150	210	190	220	180	210	190	7.4	NA	NA	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	350	350	390
Chemical	Ammonia as N		mg/L	NA	NA	NA	134	58	18.9	76.5	105	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	48.5	
Metals	Aluminum		ug/L	NA	NA	NA	NA	< 200	< 200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 200		
Metals	Antimony	6	ug/L	NA	NA	NA	NA	< 20.0	16.9 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0		
Metals	Arsenic	10	ug/L	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 30.0		
Metals	Barium	2000	ug/L	NA	NA	NA	NA	496	614	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	595		
Metals	Beryllium	4	ug/L	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00		
Metals	Cadmium	5	ug/L	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00		
Metals	Calcium		ug/L	NA	NA	NA	NA	71400	73700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99500		
Metals	Chromium	100	ug/L	NA	NA	NA	NA	< 10.0	1.67 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.46 J		
Metals	Cobalt		ug/L	NA	NA	NA	NA	6.41	7.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.56		
Metals	Copper	1300	ug/L	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0		
Metals	Iron		ug/L	NA	NA	NA	NA	< 100	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100		
Metals	Lead	15	ug/L	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0		
Metals	Magnesium		ug/L	NA	NA	NA	NA	21600	23500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24700		
Metals	Manganese		ug/L	NA	NA	NA	NA	142	187	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	824		
Metals	Mercury	2	ug/L	NA	NA	NA	NA</																						

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Well Date Type			W-4R 4/21/2023 N	W-6 11/5/2018 N	W-6 1/15/2019 N	W-6 10/7/2019 N	W-6 4/7/2020 N	W-6 10/8/2020 N	W-6 4/15/2021 N	W-6 4/4/2022 N	W-6 10/7/2022 N	W-6 1/5/2023 FD	W-6 4/11/2023 N	W-7A 7/8/2016 N	W-7A 10/11/2016 N	W-7A 1/17/2017 N	W-7A 4/6/2017 N	W-7A 7/10/2017 N	W-7A 10/12/2017 N	W-7A 1/8/2018 N	W-7A 4/16/2018 N	W-7A 10/19/2018 N	W-7A 1/14/2019 N	W-7A 6/4/2019 N	W-7A 10/9/2019 N
Group	Analyte	MCL	note	Units																					
SVOCs	Caprolactam			ug/L	NA	< 8	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 8	< 8.0	
SVOCs	Carbazole			ug/L	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4.0	
SVOCs	Chrysene			ug/L	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.80	
SVOCs	Di-n-butyl phthalate			ug/L	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4.0	
SVOCs	Di-n-octyl phthalate			ug/L	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4.0	
SVOCs	Dibenz(a,h)anthracene			ug/L	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.80	
SVOCs	Dibenzofuran			ug/L	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4.0	
SVOCs	Diethyl phthalate			ug/L	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4.0	
SVOCs	Dimethyl phthalate			ug/L	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4.0	
SVOCs	Fluoranthene			ug/L	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.80	
SVOCs	Fluorene			ug/L	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.80	
SVOCs	Hexachlorobenzene	1		ug/L	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4.0	
SVOCs	Hexachlorobutadiene			ug/L	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4.0	
SVOCs	Hexachlorocyclopentadiene	50		ug/L	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20	< 20	
SVOCs	Hexachloroethane			ug/L	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4.0	
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.80	
SVOCs	Isophorone			ug/L	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4.0	
SVOCs	N-Nitrosodi-n-propylamine			ug/L	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4.0	
SVOCs	N-Nitrosodiphenylamine			ug/L	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4.0	
SVOCs	Naphthalene			ug/L	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.80	
SVOCs	Nitrobenzene			ug/L	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4.0	
SVOCs	Pentachlorophenol	1		ug/L	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20	< 20	
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	< 1.0	< 0.95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Phenanthrene			ug/L	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.80	
SVOCs	Phenol			ug/L	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4.0	
SVOCs	Pyrene			ug/L	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.80	
VOCs	Acetone			ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	NA	NA	< 20	NA	NA	NA	NA	NA	NA	NA	NA	< 20	< 20	
VOCs	Benzene	5		ug/L	< 1.0	< 5	< 1	< 1.0	< 1	< 1.0	< 1.0	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	< 1	< 1.0	
VOCs	Bromodichloromethane			ug/L	< 1.0	< 5	< 1	< 1.0	< 1	< 1.0	< 1.0	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	< 1	< 1.0	
VOCs	Bromoform			ug/L	< 1.0	< 5	< 1	< 1.0	< 1	< 1.0	< 1.0	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	< 1	< 1.0	
VOCs	Bromomethane			ug/L	< 2.0	< 5	< 2	< 2.0	< 2	< 2.0	< 2.0	NA	NA	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	< 2	< 2.0	
VOCs	2-Butanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	< 10	NA	NA	NA</td								

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			Well Date Type	W-7A 4/10/2020	W-7A 10/5/2020	W-7A 4/5/2021	W-7A 10/5/2021	W-7A 4/4/2022	W-7A 10/4/2022	W-7A 1/3/2023	W-7A 4/5/2023	W-10 1/19/2015	W-10 4/13/2015	W-10 7/13/2015	W-10 10/12/2015	W-10 1/14/2016	W-10 4/19/2016	W-10 7/8/2016	W-10 10/11/2016	W-10 1/17/2017	W-10 4/6/2017	W-10 4/7/2017	W-10 7/10/2017	W-10 10/12/2017	W-10 1/8/2018	W-10 4/16/2018	W-10 7/13/2018	W-10 10/19/2018	
Group	Analyte	MCL	note	Units																									
Radiological	Alpha particles	15	*	pCi/L	1.99 #	6.87	6.63	8.14	3.44 #	4.14	NA	2.12 #	3.75	1.66 #	7.68	3.57 #	0.0550 #	1.77 #	4.87 #	1.57 #	6.39	2.06 #	NA	8.39	2.84 #	3.71	4.16 #	1.11 #	0.233 #
Radiological	Beta particles	50	*	pCi/L	54.0	99.2	96.1	105	87.5	85.8	NA	66.2	88.3	88.8	150	52.0	94.1	108	103	84.6	79.2	92.0	NA	89.2	78.4	99.4	79.2	65.7	68.7
Radiological	Tritium			pCi/L	115 #	0 ##	95.9 #	141 #	121 #	189 #	NA	165 #	50.6 #	115 #	0 ##	16.0 #	0 ##	245 #	73.4 #	0 ##	190 #	0 ##	NA	26.2 #	0 ##	240 #	0 ##	0 ##	278 #
Radiological	Technetium-99	900		pCi/L	180	178	192	193	153	134	NA	145	149 #	0 ##	172 #	94.5 #	36.9 #	85.7 #	257 #	216	131	NA	NA	94.7	129	143	113	129	90.0
Radiological	Uranium-233/234			pCi/L	0.240	NA	0.0644 #	0.277	0.137 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-235/236			pCi/L	0 ##	NA	0.0135 #	0.0105 #	0.0177 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-238			pCi/L	0.219	NA	0.331	0.101 #	0.146 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Percent Uranium-235		%	ug/L	0 #	NA	0 #	0 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-234			ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	NA	< 0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0500
Radiological	Uranium-235			ug/L	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	NA	< 0.0700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0700
Radiological	Uranium-238			ug/L	0.716	0.725	0.671	0.558	0.550	0.477	NA	0.476	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0841 J
Radiological	Total Uranium Isotopes	30	ug/L	0.716	0.725	0.671	0.558	0.550	0.477	NA	5.9	5.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0841 J	
Chemical	Fluoride	4	mg/L	6.04	5.57	5.37	7.18	5.6	NA	5.9	5.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chemical	Nitrate as N	10	mg/L	330	370	410	320	310	310	NA	250	75	66	85	52	64	72	67	51	51	NA	52	41	55	46	41	35	21	
Chemical	Ammonia as N		mg/L	44.6	56	63.9	66.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Aluminum		ug/L	< 200	70.1 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Antimony	6	ug/L	< 20.0	5.84 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Arsenic	10	ug/L	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Barium	2000	ug/L	574	614	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Beryllium	4	ug/L	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Cadmium	5	ug/L	< 5.00	1.42 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Calcium		ug/L	96400	99300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Chromium	100	ug/L	< 10.0	< 10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Cobalt		ug/L	5.82	8.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Copper	1300	ug/L	< 20.0	4 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Iron		ug/L	< 100	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Lead	15	ug/L	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Magnesium		ug/L	25300	23500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Manganese		ug/L	789	845	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Mercury	2	ug/L	< 0.200	< 0.200	NA	NA	NA	NA																				

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

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Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-10 1/14/2019	W-10 6/4/2019	W-10 10/9/2019	W-10 10/9/2019	W-10 4/13/2020	W-10 10/5/2020	W-10 4/5/2021	W-10 10/5/2021	W-10 4/4/2022	W-10 10/6/2022	W-10 1/3/2023	W-10 4/5/2023	W-11 11/5/2018	W-11 12/5/2018	W-11 1/11/2019	W-11 6/5/2019	W-11 10/8/2019	W-11 4/10/2020	W-11 10/5/2020	W-11 4/5/2021	W-11 10/5/2021	W-11 4/4/2022	W-11 10/4/2022	W-11 4/5/2023	W-11 10/4/2023	W-11R 1/19/2015
Group	Analyte	MCL note	Units																										
Radiological	Alpha particles	15 *	pCi/L	0.960 #	1.51 #	3.19	2.19 #	0 ##	3.04 #	0.0413 #	0.131 #	1.37 #	0.281 #	NA	3.35 #	7.82	14.2	17.0	20.9	7.82	36.3	11.3	12.8	0.816 #	0 ##	NA	NA	4.48	
Radiological	Beta particles	50 *	pCi/L	50.9	66.3	81.3	76.2	47.8	66.4	49.1	60.0	73.1	64.9	NA	31.7	2160	2450	1810	2060	2450	2080	1620	450	627	619	NA	NA	114	
Radiological	Tritium		pCi/L	0 ##	0 ##	32.7 #	165 #	145 #	0 ##	0 ##	27.5 #	61.6 #	15.1 #	NA	158 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	336 #		
Radiological	Technetium-99	900	pCi/L	80.9	88.7	118	121	81.2	110	93.4	98.2	105	91.6	NA	83.2	3570	3640	4200	2660	3420	3440	2760	1260	1230	948	1530	1750	214	
Radiological	Uranium-233/234		pCi/L	0.217 #	0 ##	0.0993 #	0.0991 #	0.0637 #	NA	0.0289 #	0.291	0.143 #	NA	NA	0.0922 #	0.0262 #	0.497	0.0194 #	0.205 #	0 ##	NA	0 ##	0.0982 #	0.0858 #	NA	NA	NA		
Radiological	Uranium-235/236		pCi/L	0.204 #	0 ##	0.0935 #	0.219	0.00902 #	NA	0.108 #	0.0763 #	0 ##	NA	NA	0 #	0 ##	0.0412 #	0.0248 #	0.0769 #	0.0116 #	NA	0.0362 #	0.0430 #	0.0294 #	NA	NA	NA		
Radiological	Uranium-238		pCi/L	0.0620 #	0.0126 #	0.180 #	0.212	0.0301 #	NA	0 ##	0.0777 #	0 ##	NA	NA	0.114 #	0.110 #	0.256 #	0.0464 #	0.133 #	0.00916 #	NA	0 ##	0.0347 #	0.118 #	NA	NA	NA		
Radiological	Percent Uranium-235	%	#	0 #	0 #	13.8	0 #	NA	0 #	0 #	NA	NA	0 #	0 #	0 #	0 #	NA	0 #	0 #	0 #	NA	0 #	0 #	0 #	NA	NA	NA		
Radiological	Uranium-234	ug/L	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	NA	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	NA		
Radiological	Uranium-235	ug/L	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	NA	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	NA		
Radiological	Uranium-238	ug/L	0.0854 J	0.114 J	0.083 J	0.114 J	<0.200	0.138 J	0.120 J	0.138 J	<0.200	0.0995 J	NA	0.0766 J	<0.200	<0.200	0.192 J	0.0696 J	<0.200	<0.200	<0.200	0.0828 J	0.0947 J	<0.200	<0.200	<0.200	NA		
Radiological	Total Uranium Isotopes	30	ug/L	0.0854 J	0.114 J	0.083 J	0.114 J	<0.200	0.138 J	0.120 J	0.138 J	<0.200	0.0995 J	NA	0.0766 J	<0.200	<0.200	0.192 J	0.0696 J	<0.200	<0.200	<0.200	0.0828 J	0.0947 J	<0.200	<0.200	<0.200	NA	
Chemical	Fluoride	4	mg/L	NA	NA	3.32	3.25	2.95	3.09	3.29	4.09	3.5	NA	3.3	2.8	NA	NA	NA	0.021	0.017	0.009 J	0.0870 J	0.037 J	<0.10	<0.10	<0.10	NA		
Chemical	Nitrate as N	10	mg/L	15	22	37	37	21	26	20	22	30	24	NA	14	57	63	64	50	56	51	49	28	23	17	35	35	30	
Chemical	Ammonia as N		mg/L	NA	NA	6.46	6.62	4.24	7.16	6.76	7.51	NA	NA	NA	NA	NA	NA	NA	4.09	4.95	4.28	3.06	2.26	NA	NA	NA	NA		
Metals	Aluminum		ug/L	NA	NA	559	551	382	288	NA	NA	NA	NA	NA	NA	NA	NA	<200	<200	<200	<200	<200	<200	<200	<200	<200	NA		
Metals	Antimony	6	ug/L	NA	NA	<20.0	<20.0	<20.0	5.96 J	NA	NA	NA	NA	NA	NA	NA	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	NA	NA	NA	
Metals	Arsenic	10	ug/L	NA	NA	<30.0	<30.0	<30.0	NA	NA	NA	NA	NA	NA	NA	NA	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	NA	NA	NA	
Metals	Barium	2000	ug/L	NA	NA	191	186	131	145	NA	NA	NA	NA	NA	NA	NA	NA	658	630	544	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Beryllium	4	ug/L	NA	NA	<5.00	<5.00	<5.00	<5.00	NA	NA	NA	NA	NA	NA	NA	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	NA			
Metals	Cadmium	5	ug/L	NA	NA	<5.00	<5.00	<5.00	<5.00	NA	NA	NA	NA	NA	NA	NA	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	NA			
Metals	Calcium		ug/L	NA	NA	25100	24400	14700	19500	NA	NA	NA	NA	NA	NA	NA	NA	27900	27900	23800	NA	NA	NA	NA	NA	NA	NA		
Metals	Chromium	100	ug/L	NA	NA	<10.0	<10.0	<10.0	NA	NA	NA	NA	NA	NA	NA	NA	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA			
Metals	Cobalt		ug/L	NA	NA	2.26 J	2.53 J	1.53 J	2.42 J	NA	NA	NA	NA	NA	NA	NA	NA	2.05 J	1.01 J	1.76 J	NA	NA	NA	NA	NA	NA	NA		
Metals	Copper	1300	ug/L	NA	NA	<20.0	58.6	<20.0	<20.0	NA	NA	NA	NA	NA	NA	NA	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	NA			
Metals	Iron	</td																											

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-10 1/14/2019 N	W-10 6/4/2019 N	W-10 10/9/2019 N	W-10 10/9/2019 FD	W-10 4/13/2020 N	W-10 10/5/2020 N	W-10 4/5/2021 N	W-10 10/5/2021 N	W-10 4/4/2022 N	W-10 10/6/2022 N	W-10 1/3/2023 N	W-10 4/5/2023 N	W-11 11/5/2018 N	W-11 12/5/2018 N	W-11 1/11/2019 N	W-11 6/5/2019 N	W-11 10/8/2019 N	W-11 4/10/2020 N	W-11 10/5/2020 N	W-11 4/5/2021 N	W-11 10/5/2021 N	W-11 4/4/2022 N	W-11 10/4/2022 N	W-11 4/5/2023 N	W-11 10/4/2023 N	W-13R 1/19/2015 N
Group	Analyte	MCL	note	Units																								
SVOCs	Caprolactam			ug/L	< 8	< 8	< 8.0	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	< 8	< 8	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	NA	
SVOCs	Carbazole			ug/L	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	
SVOCs	Chrysene			ug/L	< 0.8	< 0.8	< 0.80	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	
SVOCs	Di-n-butyl phthalate			ug/L	< 4	< 4	< 4.0	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	
SVOCs	Di-n-octyl phthalate			ug/L	< 4	< 4	< 4.0	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	
SVOCs	Dibenz(a,h)anthracene			ug/L	< 0.8	< 0.8	< 0.80	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	
SVOCs	Dibenzofuran			ug/L	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	
SVOCs	Diethyl phthalate			ug/L	< 4	< 4	< 4.0	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	
SVOCs	Dimethyl phthalate			ug/L	< 4	< 4	< 4.0	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	
SVOCs	Fluoranthene			ug/L	< 0.8	< 0.8	< 0.80	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	
SVOCs	Fluorene			ug/L	< 0.8	< 0.8	< 0.80	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	
SVOCs	Hexachlorobenzene	1		ug/L	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	
SVOCs	Hexachlorobutadiene			ug/L	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	
SVOCs	Hexachlorocyclopentadiene	50		ug/L	< 20	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	
SVOCs	Hexachloroethane			ug/L	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	< 0.8	< 0.8	< 0.80	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	
SVOCs	Isophorone			ug/L	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	
SVOCs	N-Nitrosodi-n-propylamine			ug/L	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	
SVOCs	N-Nitrosodiphenylamine			ug/L	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	
SVOCs	Naphthalene			ug/L	< 0.8	< 0.8	< 0.80	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	
SVOCs	Nitrobenzene			ug/L	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	
SVOCs	Pentachlorophenol	1		ug/L	< 20	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	< 0.99	< 0.96	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	< 0.95	NA	NA	NA	NA	NA	
SVOCs	Phenanthrene			ug/L	< 0.8	< 0.8	< 0.80	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	
SVOCs	Phenol			ug/L	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	
SVOCs	Pyrene			ug/L	< 0.8	< 0.8	< 0.80	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8</td												

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

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			Well Date	W-13R 4/13/2015	W-13R 7/13/2015	W-13R 10/12/2015	W-13R 1/14/2016	W-13R 4/19/2016	W-13R 7/8/2016	W-13R 10/11/2016	W-13R 1/17/2017	W-13R 4/6/2017	W-13R 7/13/2017	W-13R 10/12/2017	W-13R 1/8/2018	W-13R 4/20/2018	W-13R 7/13/2018	W-13R 8/30/2018	W-13R 10/19/2018	W-13R 1/10/2019	W-13R 6/6/2019	W-13R 10/8/2019	W-13R 4/8/2020	W-13R 10/5/2020	W-13R 4/6/2021	W-13R 10/5/2021	W-13R 4/4/2022	W-13R 10/4/2022
Group	Analyte	MCL	note	Units																								
SVOCs	Caprolactam		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 8	NA	NA	NA	< 8	NA	NA	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA		
SVOCs	Carbazole		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA		
SVOCs	Chrysene		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	NA	NA	< 0.80	< 0.80	< 0.16	< 0.16	NA	NA	NA	NA		
SVOCs	Di-n-butyl phthalate		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA		
SVOCs	Di-n-octyl phthalate		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA		
SVOCs	Dibenz(a,h)anthracene		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	NA	NA	< 0.80	< 0.80	< 0.16	< 0.16	NA	NA	NA	NA		
SVOCs	Dibenzofuran		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA		
SVOCs	Diethyl phthalate		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA		
SVOCs	Dimethyl phthalate		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA		
SVOCs	Fluoranthene		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	NA	NA	< 0.80	< 0.80	< 0.16	< 0.16	NA	NA	NA	NA		
SVOCs	Fluorene		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	NA	NA	< 0.80	< 0.80	< 0.16	< 0.16	NA	NA	NA	NA		
SVOCs	Hexachlorobenzene	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA		
SVOCs	Hexachlorobutadiene		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA		
SVOCs	Hexachlorocyclopentadiene	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 20	NA	NA	NA	< 20	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA		
SVOCs	Hexachloroethane		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA		
SVOCs	Indeno(1,2,3-cd)pyrene		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	NA	NA	< 0.80	< 0.80	< 0.16	< 0.16	NA	NA	NA	NA		
SVOCs	Isophorone		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA		
SVOCs	N-Nitrosodi-n-propylamine		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA		
SVOCs	N-Nitrosodiphenylamine		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA		
SVOCs	Naphthalene		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	NA	NA	< 0.80	< 0.80	< 0.16	< 0.16	NA	NA	NA	NA		
SVOCs	Nitrobenzene		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA		
SVOCs	Pentachlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 20	NA	NA	NA	< 20	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA		
SVOCs	Pentachlorophenol (SIM)	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	NA	NA	< 1.0	< 1.0	< 0.96	< 0.96	NA	NA	NA	NA		
SVOCs	Phenanthrene		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA		
SVOCs	Phenol		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA		
SVOCs	Pyrene		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	NA	NA	< 0.80	< 0.80	< 0.16	< 0.16	NA	NA	NA	NA		
VOCs	Acetone		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 20	NA	NA	NA	< 20	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA		
VOCs	Benzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	NA	NA	< 1	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA		
VOCs	Bromodichloromethane		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	NA	NA	< 1	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA		
VOCs	Bromoform		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	NA	NA	< 1	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA		
VOCs	Bromomethane		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 2	NA	NA	NA	< 2	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	NA		
VOCs	2-Butanone		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 10	NA	NA	NA	< 10	NA	NA	< 10	< 10	< 1.0	< 1.0	NA	NA	NA	NA		
VOCs	Carbon disulfide		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	NA	NA	< 1	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA		
VOCs	Carbon tetrachloride	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	NA	NA	< 1	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA		
VOCs	Chlorobenzene	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	NA	NA	< 1	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA		
VOCs	Chloroethane		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 2	NA	NA	NA	< 2	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	NA		
VOCs	Chloroform		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	NA	NA	< 1	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA		
VOCs	Chloromethane		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	NA	NA	< 1	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA		
VOCs	Cyclohexane		ug/L																									

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Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-14 10/18/2021 N	W-14 4/14/2022 N	W-14 10/17/2022 N	W-14 1/5/2023 N	W-14 4/10/2023 N	W-15 1/20/2015 N	W-15 4/14/2015 N	W-15 7/10/2015 N	W-15 10/13/2015 N	W-15 1/18/2016 N	W-15 4/18/2016 N	W-15 7/12/2016 N	W-15 10/13/2016 N	W-15 1/11/2017 N	W-15 4/5/2017 N	W-15 7/11/2017 N	W-15 10/13/2017 N	W-15 10/13/2017 FD	W-15 1/12/2018 N	W-15 4/17/2018 N	W-15 7/12/2018 N	W-15 8/30/2018 N	W-15 10/17/2018 N	W-15 1/23/2019 N	
Group	Analyte	MCL	note	Units																							
SVOCs	Caprolactam			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 8	< 8	NA	NA	NA	NA	< 8	< 8	
SVOCs	Carbazole			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	NA	< 4	< 4		
SVOCs	Chrysene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	NA	NA	NA	< 0.8	< 0.8		
SVOCs	Di-n-butyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	NA	< 4	< 4		
SVOCs	Di-n-octyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	NA	< 4	< 4		
SVOCs	Dibenz(a,h)anthracene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	NA	NA	NA	< 0.8	< 0.8		
SVOCs	Dibenzofuran			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	NA	< 4	< 4		
SVOCs	Diethyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	NA	< 4	< 4		
SVOCs	Dimethyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	NA	< 4	< 4		
SVOCs	Fluoranthene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	NA	NA	NA	< 0.8	< 0.8		
SVOCs	Fluorene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	NA	NA	NA	< 0.8	< 0.8		
SVOCs	Hexachlorobenzene	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	NA	< 4	< 4		
SVOCs	Hexachlorobutadiene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	NA	< 4	< 4		
SVOCs	Hexachlorocyclopentadiene	50		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20	< 20	NA	NA	NA	NA	< 20	< 20		
SVOCs	Hexachloroethane			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	NA	< 4	< 4		
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	NA	NA	NA	< 0.8	< 0.8		
SVOCs	Isophorone			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	NA	< 4	< 4		
SVOCs	N-Nitrosodi-n-propylamine			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	NA	< 4	< 4		
SVOCs	N-Nitrosodiphenylamine			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	NA	< 4	< 4		
SVOCs	Naphthalene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	NA	NA	NA	< 0.8	< 0.8		
SVOCs	Nitrobenzene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	NA	< 4	< 4		
SVOCs	Pentachlorophenol	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20	< 20	NA	NA	NA	NA	< 20	< 20		
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Phenanthrene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	NA	NA	NA	< 0.8	< 0.8		
SVOCs	Phenol			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	NA	< 4	< 4		
SVOCs	Pyrene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	NA	NA	NA	< 0.8	< 0.8		
VOCs	Acetone			ug/L	< 20	< 20	< 25.0	NA	< 20	NA	NA	NA	NA	NA	NA	NA	< 20	< 20	NA	NA	NA	NA	< 20	< 20			
VOCs	Benzene	5		ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	< 1	< 1	NA	NA	NA	NA	< 1	< 1			
VOCs	Bromodichloromethane			ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	< 1	< 1	NA	NA	NA	NA	< 1	< 1			
VOCs	Bromoform			ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	< 1	< 1	NA	NA	NA	NA	< 1	< 1			
VOCs	Bromomethane			ug/L	< 2.0	< 2.0	< 2.0	NA	< 2.0	NA	NA	NA	NA	NA	NA	NA	< 2	< 2	NA	NA	NA	NA	< 2	< 2			
VOCs	2-Butanone			ug/L	< 10	< 10	< 50.0	NA	< 10	NA	NA	NA	NA	NA	NA	NA	< 10	< 10	NA	NA	NA	NA	< 10	< 10			
VOCs	Carbon disulfide			ug/L	< 1.0	< 1.0	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	< 1	< 1	NA	NA	NA	NA	< 1	< 1			
VOCs	Carbon tetrachloride	5		ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	< 1	< 1	NA	NA	NA	NA	< 1	< 1			
VOCs	Chlorobenzene	100																									

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			Well Date Type	W-15 6/4/2019	W-15 10/21/2019	W-15 4/21/2020	W-15 10/16/2020	W-15 4/15/2021	W-15 10/19/2021	W-15 4/14/2022	W-15 10/17/2022	W-15 4/13/2023	W-15 1/20/2015	W-16 4/14/2015	W-16 4/17/2015	W-16 7/10/2015	W-16 10/13/2015	W-16 1/18/2016	W-16 4/18/2016	W-16 7/12/2016	W-16 10/13/2016	W-16 1/13/2017	W-16 4/5/2017	W-16 7/11/2017	W-16 10/13/2017	W-16 1/12/2018	W-16 4/17/2018	W-16 7/12/2018				
Group	Analyte	MCL	note	Units																												
Radiological	Alpha particles	15	*	pCi/L	3.33 #	0 ##	8.12	13.0	3.99	1.06 #	2.50 #	NA	6.76	3.99 #	1.16 #	NA	3.59	4.59	0.0310 #	4.45 #	3.58	5.17	7.10	0.0414 #	2.03 #	2.02 #	3.59	1.27 #	3.84 #			
Radiological	Beta particles	50	*	pCi/L	186	174	114	162	128	114	104	125	84.6	19.6	14.1	NA	15.7	21.0	21.4	19.7	23.5	21.4	18.0	13.0	22.1	16.5	19.8	12.2	16.2			
Radiological	Tritium			pCi/L	0 ##	0 ##	50.2 #	0 ##	0 ##	104 #	0 ##	164 #	337 #	96.2 #	NA	0 ##	0 ##	11.8 #	157 #	128 #	0 ##	0 ##	52.8 #	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##			
Radiological	Technetium-99	900		pCi/L	281	253	219	238	213	221	206	231	185	0 ##	0 ##	NA	0 ##	0 ##	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Radiological	Uranium-233/234			pCi/L	0.271 #	0.0108 #	0 ##	NA	0 ##	0 ##	0.302	NA	0 ##	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Radiological	Uranium-235/236			pCi/L	0.0242 #	0.162 #	0 ##	NA	0 #	0.0538 #	0.0896 #	NA	0.0689 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Radiological	Uranium-238			pCi/L	0.0754 #	0.0531 #	0 ##	NA	0 ##	0 ##	0.127	NA	0 ##	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Radiological	Percent Uranium-235		%	ug/L	0 #	0 #	0 #	NA	0 #	0 #	0 #	NA	0 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Radiological	Uranium-234			ug/L	< 0.0500	< 0.050	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Uranium-235			ug/L	< 0.0700	< 0.070	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Uranium-238			ug/L	0.103 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0	< 0.200	< 0.200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Total Uranium Isotopes	30		ug/L	0.103 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0	< 0.200	< 0.200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical	Fluoride	4	mg/L	NA	1.88	2.28	1.96	2.19	2.12	2.3	1.9	1.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Chemical	Nitrate as N	10	mg/L	44	35	36	40	30	39	32	45	45	2.7	NA	2.7	2.6	3.4	2.7	2.5	3.9	3.7	2.9	3	3.9	4.2	3.5	4.6	4.5	NA	NA		
Chemical	Ammonia as N		mg/L	NA	12.6	14.7	12.8	9.55	0.487	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Aluminum		ug/L	NA	75 J	132 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Antimony	6	ug/L	NA	< 20.0	8.62 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Arsenic	10	ug/L	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Barium	2000	ug/L	NA	304	283	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Beryllium	4	ug/L	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Cadmium	5	ug/L	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Calcium		ug/L	NA	23700	20900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Chromium	100	ug/L	NA	< 10.0	1.15 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Cobalt		ug/L	NA	4.38 J	5.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Copper	1300	ug/L	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Iron		ug/L	NA	< 100	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Lead	15	ug/L	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Magnesium		ug/L	NA	9330	8040																										

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-15 6/4/2019	W-15 10/21/2019	W-15 4/21/2020	W-15 10/16/2020	W-15 4/15/2021	W-15 10/19/2021	W-15 4/14/2022	W-15 10/17/2022	W-15 4/13/2023	W-16 1/20/2015	W-16 4/14/2015	W-16 4/17/2015	W-16 7/10/2015	W-16 10/13/2015	W-16 1/18/2016	W-16 4/18/2016	W-16 7/12/2016	W-16 10/13/2016	W-16 1/13/2017	W-16 4/5/2017	W-16 7/11/2017	W-16 10/13/2017	W-16 1/12/2018	W-16 4/17/2018	W-16 7/12/2018
Group	Analyte	MCL	note	Units																								
SVOCs	Caprolactam			ug/L	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 8	NA	NA	NA	
SVOCs	Carbazole			ug/L	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	
SVOCs	Chrysene			ug/L	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	
SVOCs	Di-n-butyl phthalate			ug/L	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	
SVOCs	Di-n-octyl phthalate			ug/L	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	
SVOCs	Dibenz(a,h)anthracene			ug/L	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	
SVOCs	Dibenzofuran			ug/L	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	
SVOCs	Diethyl phthalate			ug/L	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	
SVOCs	Dimethyl phthalate			ug/L	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	
SVOCs	Fluoranthene			ug/L	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	
SVOCs	Fluorene			ug/L	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	
SVOCs	Hexachlorobenzene	1		ug/L	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	
SVOCs	Hexachlorobutadiene			ug/L	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	
SVOCs	Hexachlorocyclopentadiene	50		ug/L	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20	NA	NA	NA	
SVOCs	Hexachloroethane			ug/L	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	
SVOCs	Isophorone			ug/L	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	
SVOCs	N-Nitrosodi-n-propylamine			ug/L	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	
SVOCs	N-Nitrosodiphenylamine			ug/L	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	
SVOCs	Naphthalene			ug/L	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	
SVOCs	Nitrobenzene			ug/L	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	
SVOCs	Pentachlorophenol	1		ug/L	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20	NA	NA	NA	
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	< 1.0	< 0.98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Phenanthrene			ug/L	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	
SVOCs	Phenol			ug/L	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	
SVOCs	Pyrene			ug/L	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	
VOCs	Acetone			ug/L	< 20	< 20	< 20	< 20	< 20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20	NA	NA	NA	
VOCs	Benzene	5		ug/L	< 1	< 1.0	< 1	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	NA	NA	
VOCs	Bromodichloromethane			ug/L	< 1	< 1.0	< 1	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	NA	NA	
VOCs	Bromoform			ug/L	< 1	< 1.0	< 1	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	NA	NA	
VOCs	Bromomethane			ug/L	< 2	< 2.0	< 2	< 2.0	< 2.0	NA	NA	NA</																

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-16 10/18/2018 N	W-16 1/28/2019 N	W-16 6/4/2019 N	W-16 10/21/2019 N	W-16 4/21/2020 N	W-16 10/20/2020 N	W-16 4/16/2021 N	W-16 10/19/2021 N	W-16 4/19/2022 N	W-16 10/18/2022 N	W-16 4/10/2023 N	W-17 1/20/2015 N	W-17 4/14/2015 N	W-17 4/17/2015 N	W-17 7/15/2015 N	W-17 10/13/2015 N	W-17 1/21/2016 N	W-17 4/21/2016 N	W-17 7/12/2016 N	W-17 10/13/2016 N	W-17 1/13/2017 N	W-17 4/7/2017 N	W-17 10/2/2017 N	W-17 7/11/2017 N	W-17 10/2/2017 N	W-17 1/15/2018 N
Group	Analyte	MCL	note	Units																									
SVOCs	Caprolactam			ug/L	< 8	< 8	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Carbazole			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Chrysene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Di-n-butyl phthalate			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Di-n-octyl phthalate			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Dibenz(a,h)anthracene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Dibenzofuran			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Diethyl phthalate			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Dimethyl phthalate			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Fluoranthene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Fluorene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Hexachlorobenzene	1		ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Hexachlorobutadiene			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Hexachlorocyclopentadiene	50		ug/L	< 20	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Hexachloroethane			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Isophorone			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	N-Nitrosodi-n-propylamine			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	N-Nitrosodiphenylamine			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Naphthalene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Nitrobenzene			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Pentachlorophenol	1		ug/L	< 20	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	< 0.96	< 0.95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Phenanthrene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Phenol			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Pyrene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
VOCs	Acetone			ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
VOCs	Benzene	5		ug/L	< 1	< 1	< 1	< 1.0	< 1	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	Bromodichloromethane			ug/L	< 1	< 1	< 1	< 1.0	< 1	< 1.0	< 1.0	NA	NA	NA</td															

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-17 4/20/2018	W-17 7/12/2018	W-17 10/25/2018	W-17 1/25/2019	W-17 10/21/2019	W-17 4/20/2020	W-17 10/9/2020	W-17 4/13/2021	W-17 10/12/2021	W-17 4/7/2022	W-17 10/11/2022	W-17 10/11/2022 FD	W-17 1/5/2023	W-17 4/17/2023	W-18R 7/8/2016	W-18R 10/21/2016	W-18R 10/21/2016 FD	W-18R 10/24/2016	W-18R 1/16/2017	W-18R 4/6/2017	W-18R 7/10/2017	W-18R 1/8/2018	W-18R 4/16/2018	W-18R 7/13/2018	
Group	Analyte	MCL	note	Units																							
SVOCs	Caprolactam			ug/L	NA	NA	< 8	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Carbazole			ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Chrysene			ug/L	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Di-n-butyl phthalate			ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Di-n-octyl phthalate			ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Dibenz(a,h)anthracene			ug/L	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Dibenzofuran			ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Diethyl phthalate			ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Dimethyl phthalate			ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Fluoranthene			ug/L	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Fluorene			ug/L	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Hexachlorobenzene	1		ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Hexachlorobutadiene			ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Hexachlorocyclopentadiene	50		ug/L	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Hexachloroethane			ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Isophorone			ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	N-Nitrosodi-n-propylamine			ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	N-Nitrosodiphenylamine			ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Naphthalene			ug/L	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Nitrobenzene			ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Pentachlorophenol	1		ug/L	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	NA	< 1.0	< 0.94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Phenanthrene			ug/L	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Phenol			ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Pyrene			ug/L	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
VOCs	Acetone			ug/L	NA	NA	< 20	< 20	< 20	< 20	< 20	< 20	NA	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	
VOCs	Benzene	5		ug/L	NA	NA	< 1	< 1	< 1.0	< 1	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Bromodichloromethane			ug/L	NA	NA	< 1	< 1	< 1.0	< 1	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Bromoform			ug/L	NA	NA	< 1	< 1	< 1.0	< 1	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Bromomethane			ug/L	NA	NA	< 2	< 2	< 2																		

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			Well Date Type	W-18R 10/23/2018 N	W-18R 1/15/2019 N	W-18R 10/7/2019 N	W-18R 4/7/2020 N	W-18R 10/9/2020 N	W-18R 4/13/2021 N	W-18R 10/8/2021 N	W-18R 4/7/2022 N	W-18R 10/7/2022 N	W-18R 1/5/2023 N	W-19B 4/17/2023 N	W-19B 8/30/2018 N	W-19B 10/3/2018 N	W-19B 10/4/2018 N	W-19B 11/4/2018 N	W-19B 1/23/2019 N	W-19B 10/21/2019 N	W-19B 4/17/2020 N	W-19B 4/17/2020 FD	W-19B 10/20/2020 N	W-19B 4/20/2021 N	W-19B 4/20/2021 FD	W-19B 10/20/2021 N	W-19B 4/19/2022 N	W-19B 10/18/2022 N
Group	Analyte	MCL note	Units																									
Radiological	Alpha particles	15 *	pCi/L	14.3	6.79 #	9.79 #	8.00 #	16.5	13.2	20.9	6.06 #	2.88 #	NA	7.15	1.32 #	NA	NA	0##	4.23	2.26 #	1.20 #	0.569 #	1.06 #	1.58 #	0##	2.63	0.928 #	NA
Radiological	Beta particles	50 *	pCi/L	131	124	150	73.6	124	54.7	49.3	66.1	61.1	NA	56.9	3.45	NA	NA	0##	0.0395 #	0##	4.24 #	0##	0.801 #	1.02 #	3.35	0##	3.83 #	NA
Radiological	Tritium		pCi/L	14.9 #	0##	210 #	0##	0##	0##	148 #	0##	0##	NA	316 #	348 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Technetium-99	900	pCi/L	208	168	214	295	243	175	143	85.8	110	NA	138	NA	NA	NA	0##	0##	0##	0##	0##	0.329 #	0##	0##	1.70 #	2.05 #	3.61
Radiological	Uranium-233/234		pCi/L	1.85	4.62	1.53	2.12	2.59	3.83	1.37	0.770	NA	NA	1.33	NA	NA	NA	0.131 #	0.525	0.197 #	0##	0.0200 #	NA	0##	0##	0.0812 #	0##	NA
Radiological	Uranium-235/236		pCi/L	0.247 #	0.528	0.266	0.0757 #	0.277	0.306	0##	0.116 #	NA	NA	0.186	NA	NA	NA	0.0261 #	0.138	0.125 #	0.0238 #	0##	NA	0##	0#	0.0699 #	0.00869 #	NA
Radiological	Uranium-238		pCi/L	1.19	2.07	1.17	1.41	1.29	1.44	1.15	0.872	NA	NA	0.842	NA	NA	NA	0.0423 #	0.297	0.0559 #	0##	0.0337 #	NA	0##	0##	0.0976 #	0.0392 #	NA
Radiological	Percent Uranium-235	%	#	3.81	3.41	0#	3.23	3.20	0#	NA	NA	NA	NA	3.32	NA	NA	NA	0#	6.73	0#	0#	NA	0#	0#	0#	NA	NA	
Radiological	Uranium-234	ug/L	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	NA	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	
Radiological	Uranium-235	ug/L	0.0453 J	0.062 J	0.035 J	0.05 J	0.0498 J	0.0720	0.0240 J	0.0214 J	0.0318 J	NA	0.0211 J	NA	NA	NA	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700		
Radiological	Uranium-238	ug/L	4.42	5.03	4.06	4.32	4.26	4.25	2.70	2.31	2.52	NA	2.09	NA	NA	NA	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200		
Radiological	Total Uranium Isotopes	30	ug/L	4.47	5.09	4.10	4.37	4.31	4.33	2.72	2.33	2.55	NA	2.11	NA	NA	NA	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	
Chemical	Fluoride	4	mg/L	NA	NA	6.34	4.6	5.92	4.89	6.76	5.4	NA	5.0	5.1	NA	NA	NA	NA	0.019	0.01	0.006	<0.1	0.015 J	0.010 J	<0.10	0.010		
Chemical	Nitrate as N	10	mg/L	710	750	770	790	660	470	550	340	380	NA	350	4.1	NA	NA	4.3	3.8	4.2	3.9	3.9	3.4	3.8	3.7	3.6	3.6	
Chemical	Ammonia as N		mg/L	NA	NA	126	55	17.8	58.5	77.5	NA	NA	NA	NA	NA	NA	NA	0.0146	0.0168	0.0459	0.0286 J	0.0567 J	0.0176 J	0.0131 J	NA	NA		
Metals	Aluminum		ug/L	NA	NA	<200	79.5 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<200	<200	<200	<200	NA	NA	NA	NA	NA	NA	
Metals	Antimony	6	ug/L	NA	NA	<20.0	9.95 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<20.0	<20.0	<20.0	<20.0	NA	NA	NA	NA	NA	NA	
Metals	Arsenic	10	ug/L	NA	NA	<30.0	<30.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.32 J	<30.0	<30.0	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Barium	2000	ug/L	NA	NA	713	720	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	84.8	82.7	86	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Beryllium	4	ug/L	NA	NA	<5.00	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.00	<5.00	<5.00	<5.00	NA	NA	NA	NA	NA	NA	
Metals	Cadmium	5	ug/L	NA	NA	1.94 J	1.31 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.00	<5.00	<5.00	<5.00	NA	NA	NA	NA	NA	NA	
Metals	Calcium		ug/L	NA	NA	222000	208000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4330	4770	4890	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Chromium	100	ug/L	NA	NA	<10.0	1.68 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.27 J	2.21 J	2.04 J	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Cobalt		ug/L	NA	NA	1.16 J	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.00	1.41 J	1.32 J	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Copper	1300	ug/L	NA	NA	<20.0	<20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	<20.0	<20.0	<20.0	<20.0	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Iron		ug/L	NA	NA	<100	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100	<100	<100	<100	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Lead	15	ug/L	NA	NA	<100	6.85 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	&lt											

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Well Date Type			W-18R 10/23/2018 N	W-18R 1/15/2019 N	W-18R 10/7/2019 N	W-18R 4/7/2020 N	W-18R 10/9/2020 N	W-18R 4/13/2021 N	W-18R 10/8/2021 N	W-18R 4/7/2022 N	W-18R 10/7/2022 N	W-18R 1/5/2023 N	W-18R 4/17/2023 N	W-19B 8/30/2018 N	W-19B 10/3/2018 N	W-19B 10/4/2018 N	W-19B 11/4/2018 N	W-19B 1/23/2019 N	W-19B 10/21/2019 N	W-19B 4/17/2020 N	W-19B 4/17/2020 FD	W-19B 10/20/2020 N	W-19B 4/20/2021 N	W-19B 4/20/2021 FD	W-19B 10/20/2021 N	W-19B 4/19/2022 N	W-19B 10/18/2022 N
Group	Analyte	MCL	note	Units																							
SVOCs	Caprolactam			ug/L	< 8	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	NA	21	< 8	< 8.0	< 8	< 8	< 4.0	< 4.0	< 4.0	NA	NA	NA	
SVOCs	Carbazole			ug/L	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	
SVOCs	Chrysene			ug/L	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	
SVOCs	Di-n-butyl phthalate			ug/L	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4.0	< 4.0	NA	NA	NA	
SVOCs	Di-n-octyl phthalate			ug/L	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4	< 4.0	< 4.0	< 4.0	NA	NA	NA	
SVOCs	Dibenz(a,h)anthracene			ug/L	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	
SVOCs	Dibenzofuran			ug/L	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	
SVOCs	Diethyl phthalate			ug/L	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4.0	< 4.0	NA	NA	NA	
SVOCs	Dimethyl phthalate			ug/L	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4	< 4.0	< 4.0	< 4.0	NA	NA	NA	
SVOCs	Fluoranthene			ug/L	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	
SVOCs	Fluorene			ug/L	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	
SVOCs	Hexachlorobenzene	1		ug/L	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	
SVOCs	Hexachlorobutadiene			ug/L	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	
SVOCs	Hexachlorocyclopentadiene	50		ug/L	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 20	< 4.0	< 4.0	< 4.0	NA	NA	NA	
SVOCs	Hexachloroethane			ug/L	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	
SVOCs	Isophorone			ug/L	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	
SVOCs	N-Nitrosodi-n-propylamine			ug/L	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	
SVOCs	N-Nitrosodiphenylamine			ug/L	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	
SVOCs	Naphthalene			ug/L	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	
SVOCs	Nitrobenzene			ug/L	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	
SVOCs	Pentachlorophenol	1		ug/L	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 20	< 4.0	< 4.0	< 4.0	NA	NA	NA	
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	< 1.0	< 0.94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	< 0.94	< 0.95	NA	NA	NA	
SVOCs	Phenanthrene			ug/L	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	
SVOCs	Phenol			ug/L	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	
SVOCs	Pyrene			ug/L	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	
VOCs	Acetone			ug/L																							

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			Well Date Type	W-20 10/26/2021	W-20 4/25/2022	W-20 10/20/2022	W-20 4/21/2023	W-20 1/19/2015	W-22 4/13/2015	W-22 7/13/2015	W-22 10/12/2015	W-22 1/14/2016	W-22 4/19/2016	W-22 7/8/2016	W-22 10/11/2016	W-22 10/21/2016	W-22 10/21/2016 FD	W-22 10/24/2016	W-22 10/24/2016 FD	W-22 1/16/2017	W-22 4/6/2017	W-22 7/10/2017	W-22 10/12/2017	W-22 1/8/2018	W-22 4/16/2018	W-22 7/13/2018	W-22 10/23/2018	W-22 1/15/2019	
Group	Analyte	MCL	note	Units																									
Radiological	Alpha particles	15	*	pCi/L	0.485 #	0 ##	NA	NA	7.25	2.10 #	5.75	2.07 #	0.0773 #	0 ##	1.85 #	NA	3.77 #	0 ##	NA	NA	26.8	10.2	10.1	8.32	9.93	9.77	14.2	1.34 #	NA
Radiological	Beta particles	50	*	pCi/L	0 ##	0.133 #	NA	NA	48.1	37.4	42.5	20.3	40.6	42.3	51.1	NA	59.0	42.2	NA	NA	130	79.9	77.4	73.7	106	92.3	77.9	17.1	NA
Radiological	Tritium			pCi/L	NA	NA	NA	NA	175 #	0 ##	0 ##	0 ##	242 #	116 #	61.4 #	NA	0 ##	0 ##	NA	NA	41.7 #	109 #	0 ##	0 ##	87.8 #	0 ##	321 #	74.3 #	NA
Radiological	Technetium-99	900		pCi/L	0 ##	0 ##	0.168 #	7.45	29.0 #	4.10 #	4.39 #	101 #	NA	NA	168 #	NA	105	NA	NA	NA	NA	98.7	129	140	128	110	NA	NA	NA
Radiological	Uranium-233/234			pCi/L	0 ##	0 ##	NA	0 ##	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.20	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-235/236			pCi/L	0 ##	0 ##	NA	0.0264 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.251 #	NA	NA	NA	NA	NA	NA	NA	
Radiological	Uranium-238			pCi/L	0 ##	0.00111 #	NA	0.0213 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.79	NA	NA	NA	NA	NA	NA	NA
Radiological	Percent Uranium-235		%	ug/L	0 #	0 #	NA	0 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0 #	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-234			ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0500	NA	
Radiological	Uranium-235			ug/L	< 0.0700	< 0.0700	< 0.0700	< 0.0700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0128 J	NA	
Radiological	Uranium-238			ug/L	< 0.200	< 0.200	< 0.200	< 0.200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.698	NA	
Radiological	Total Uranium Isotopes	30		ug/L	< 0.200	< 0.200	< 0.200	< 0.200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.711	NA	
Chemical	Fluoride	4		mg/L	0.042 J	< 0.10	< 0.10	< 0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chemical	Nitrate as N	10		mg/L	0.042	< 0.020	< 0.020	< 0.020	64	150	170	30	250	120	160	48	NA	NA	180	150	110	300	96	140	130	150	85	71	59
Chemical	Ammonia as N			mg/L	0.0427 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Aluminum			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Antimony	6		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Arsenic	10		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Barium	2000		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Beryllium	4		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Cadmium	5		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Calcium			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Chromium	100		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Cobalt			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Copper	1300		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Iron			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Lead	15		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Magnesium			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Manganese			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Mercury	2		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Nickel			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Potassium			ug/L	NA	NA	NA	NA	NA																				

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-22 1/22/2019	W-22 10/7/2019	W-22 4/7/2020	W-22 10/8/2020	W-22 4/15/2021	W-22 10/8/2021	W-22 4/4/2022	W-22 10/7/2022	W-22 1/5/2023	W-22 4/11/2023	W-23R 1/20/2015	W-23R 4/14/2015	W-23R 4/17/2015	W-23R 7/10/2015	W-23R 10/13/2015	W-23R 1/18/2016	W-23R 4/18/2016	W-23R 7/12/2016	W-23R 10/13/2016	W-23R 1/13/2017	W-23R 4/5/2017	W-23R 7/11/2017	W-23R 10/3/2017	W-23R 1/12/2018	W-23R 4/17/2018	
Group	Analyte	MCL note	Units																										
Radiological	Alpha particles	15 *	pCi/L	4.16 #	2.92 #	3.52	1.17 #	1.68 #	8.55	1.01 #	4.15 #	NA	1.40 #	1.29 #	1.18 #	NA	0.134 #	0##	0.645 #	0.907 #	3.00 #	16.5	42.2	4.13	18.1	8.15	23.7	10.9	
Radiological	Beta particles	50 *	pCi/L	18.2	29.6	14.9	21.5	19.0	24.5	19.3	12.2	NA	9.27	0.302 #	0.462 #	NA	3.59 #	0.0623 #	2.52 #	0.989 #	0.932 #	9.32	13.3	3.22	7.19	7.45	18.5	8.33	
Radiological	Tritium		pCi/L	0##	115 #	62.4 #	0##	94.2 #	0##	0##	NA	233 #	81.7 #	0##	NA	0##	0##	0##	182 #	243 #	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Technetium-99	900	pCi/L	14.9 #	57.4	20.1	27.9	26.3	31.1	29.3	22.4	NA	9.13	5.46 #	0##	NA	113 #	12.8 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Uranium-233/234		pCi/L	1.18	0.905	0.420	NA	0.927	0.727	0.644	NA	NA	0.395	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.01	0.651	NA	1.43	NA	0.670 #	NA
Radiological	Uranium-235/236		pCi/L	0.437	0.136 #	0.0932 #	NA	0.0249 #	0.220 #	0##	NA	NA	0##	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0651 #	0.213 #	NA	0.228 #	NA	0.451 #	NA
Radiological	Uranium-238		pCi/L	0.672	0.322	0.124 #	NA	0.0993 #	0.302	0.316	NA	NA	0.219	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.366 #	0.618	NA	1.13	NA	0.181 #	NA
Radiological	Percent Uranium-235	%		9.18	0 #	0 #	NA	0 #	0 #	NA	NA	0 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	0 #	0 #	NA	0 #	NA	0 #	NA	
Radiological	Uranium-234	ug/L	<0.0500	<0.050	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	NA	<0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Uranium-235	ug/L	0.0138 J	0.0177 J	0.0108 J	0.0141 J	0.0125 J	0.0144 J	0.0116 J	0.0115 J	NA	<0.0700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Uranium-238	ug/L	0.696	0.854	0.599	0.723	0.606	0.793	0.650	0.594	NA	0.411	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Total Uranium Isotopes	30	ug/L	0.71	0.872	0.61	0.737	0.619	0.807	0.662	0.606	NA	0.411	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chemical	Fluoride	4	mg/L	NA	5.52	3.63	4.48	4.10	5.61	6.0	NA	4.1	2.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chemical	Nitrate as N	10	mg/L	NA	100	50	82	57	72	71	58	NA	15	0.31	NA	0.55	0.5	0.43	0.74	0.88	0.92	1.2	0.45	0.43	1	0.77	0.49	0.45	NA
Chemical	Ammonia as N		mg/L	NA	61.8	16	36.6	24.3	45.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Aluminum		ug/L	NA	1610	1700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Antimony	6	ug/L	NA	<20.0	13.6 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Arsenic	10	ug/L	NA	<30.0	<30.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Barium	2000	ug/L	NA	46.3	83	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Beryllium	4	ug/L	NA	1.76 J	1.37 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Cadmium	5	ug/L	NA	<5.00	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Calcium		ug/L	NA	55300	28200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Chromium	100	ug/L	NA	1.07 J	1.06 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Cobalt		ug/L	NA	7.89	4.09 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Copper	1300	ug/L	NA	<20.0	<20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Iron		ug/L	NA	65.8 J	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Lead	15	ug/L	NA	<20.0	4.06 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Magnesium		ug/L	NA	9890	5610	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Manganese		ug/L	NA	1280	657	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Mercury	2	ug/L	NA	<0.200	<0.200	NA	NA	NA</td																				

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-22 1/22/2019	W-22 10/7/2019	W-22 4/7/2020	W-22 10/8/2020	W-22 4/15/2021	W-22 10/8/2021	W-22 4/4/2022	W-22 10/7/2022	W-22 1/5/2023	W-22 4/11/2023	W-23R 1/20/2015	W-23R 4/14/2015	W-23R 4/17/2015	W-23R 7/10/2015	W-23R 10/13/2015	W-23R 1/18/2016	W-23R 4/18/2016	W-23R 7/12/2016	W-23R 10/13/2016	W-23R 1/13/2017	W-23R 4/5/2017	W-23R 7/11/2017	W-23R 10/3/2017	W-23R 1/12/2018	W-23R 4/17/2018
Group	Analyte	MCL	note	Units																							
SVOCs	Caprolactam			ug/L	NA	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Carbazole			ug/L	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Chrysene			ug/L	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Di-n-butyl phthalate			ug/L	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Di-n-octyl phthalate			ug/L	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Dibenz(a,h)anthracene			ug/L	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Dibenzofuran			ug/L	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Diethyl phthalate			ug/L	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Dimethyl phthalate			ug/L	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Fluoranthene			ug/L	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Fluorene			ug/L	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Hexachlorobenzene	1		ug/L	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Hexachlorobutadiene			ug/L	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Hexachlorocyclopentadiene	50		ug/L	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Hexachloroethane			ug/L	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Isophorone			ug/L	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	N-Nitrosodi-n-propylamine			ug/L	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	N-Nitrosodiphenylamine			ug/L	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Naphthalene			ug/L	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Nitrobenzene			ug/L	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Pentachlorophenol	1		ug/L	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	< 0.95	< 0.95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Phenanthrene			ug/L	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Phenol			ug/L	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Pyrene			ug/L	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	Acetone			ug/L	NA	< 20	< 20	< 20	< 20	NA	< 20	NA	< 20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	Benzene	5		ug/L	NA	< 1.0	< 1	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	Bromodichloromethane			ug/L	NA	< 1.0	< 1	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	Bromoform			ug/L	NA	< 1.0	< 1	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	Bromomethane			ug/L	NA	< 2.0	< 2	< 2.0	< 2.0	NA	< 2.0	NA	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	2-Butanone			ug/L	NA	< 10	< 10	< 10																			

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-23R 7/12/2018 N	W-23R 8/30/2018 N	W-23R 10/18/2018 N	W-23R 1/28/2019 N	W-23R 10/18/2019 N	W-23R 4/21/2020 N	W-23R 10/19/2020 FD	W-23R 4/14/2021 N	W-23R 10/18/2021 N	W-23R 4/13/2022 N	W-23R 10/17/2022 N	W-23R 4/10/2023 FD	W-23R 4/10/2023 N	W-24 1/20/2015 N	W-24 4/14/2015 N	W-24 4/16/2015 N	W-24 7/10/2015 N	W-24 10/9/2015 N	W-24 1/15/2016 N	W-24 4/18/2016 N	W-24 7/5/2016 N	W-24 10/13/2016 N	W-24 1/11/2017 N	W-24 4/3/2017 N
Group	Analyte	MCL	note	Units																							
SVOCs	Caprolactam			ug/L	NA	NA	NA	< 8	< 8.0	< 8	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Carbazole			ug/L	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Chrysene			ug/L	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Di-n-butyl phthalate			ug/L	NA	NA	NA	< 4	< 4.0	< 4	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Di-n-octyl phthalate			ug/L	NA	NA	NA	< 4	< 4.0	< 4	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Dibenz(a,h)anthracene			ug/L	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Dibenzofuran			ug/L	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Diethyl phthalate			ug/L	NA	NA	NA	< 4	< 4.0	< 4	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Dimethyl phthalate			ug/L	NA	NA	NA	< 4	< 4.0	< 4	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Fluoranthene			ug/L	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Fluorene			ug/L	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Hexachlorobenzene	1		ug/L	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Hexachlorobutadiene			ug/L	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Hexachlorocyclopentadiene	50		ug/L	NA	NA	NA	< 20	< 20	< 20	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Hexachloroethane			ug/L	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Isophorone			ug/L	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	N-Nitrosodi-n-propylamine			ug/L	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	N-Nitrosodiphenylamine			ug/L	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Naphthalene			ug/L	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Nitrobenzene			ug/L	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Pentachlorophenol	1		ug/L	NA	NA	NA	< 20	< 20	< 20	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	NA	< 1.0	< 1.0	< 0.96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Phanthrene			ug/L	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Phenol			ug/L	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Pyrene			ug/L	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
VOCs	Acetone			ug/L	NA	< 20	NA	< 20	< 20	< 20	< 20	< 20	< 20	NA	< 20	< 25.0	< 20	< 20	NA	NA	NA	NA	NA	NA	NA	NA	
VOCs	Benzene	5		ug/L	NA	< 1	NA	< 1	< 1.0	< 1	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 0.96	NA	NA	NA	NA	NA	NA	NA	NA	NA	
VOCs	Bromodichloromethane			ug/L	NA	< 1	NA	< 1	< 1.0	< 1	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
VOCs	Bromoform			ug/L	NA	< 1	NA	< 1	< 1.0	< 1	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
VOCs	Bromomethane			ug/L	NA	< 2	NA	< 2	< 2.0	< 2	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
VOCs	2-Butanone			ug/L	NA	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 5.0	< 10	< 10	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	Carbon disulfide			ug/L	NA	< 1	NA	< 1	< 1.0	< 1	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
VOCs	Carbon tetrachloride	5		ug/L	NA	< 1	NA	< 1	< 1.0	< 1	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
VOCs	Chlorobenzene	100		ug/L	NA	< 1	NA	< 1	< 1.0	< 1	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
VOCs	Chloroethane			ug/L	NA	< 2	NA	< 2	< 2.0	< 2	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
VOCs	Chloroform			ug/L	NA	< 1	NA	< 1	< 1.0	< 1	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
VOCs	Chloromethane			ug/L	NA	< 1	NA	< 1	< 1.0	< 1	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.										

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well			W-24	W-24	W-24	W-24	W-24	W-24	W-24	W-24	W-24	W-24	W-24	W-24	W-24	W-24	W-24	W-25	W-25	W-25	W-25									
Group	Analyte	MCL	note	Units	7/11/2017	10/13/2017	1/12/2018	4/17/2018	7/10/2018	10/16/2018	1/25/2019	10/11/2019	4/22/2020	10/22/2020	4/23/2021	6/9/2021	10/21/2021	4/20/2022	10/21/2022	4/18/2023	1/30/2019	10/16/2019	4/27/2020	10/27/2020						
Radiological	Alpha particles	15	*	pCi/L	10.1	0.786 #	7.44	4.84	4.43	0.270 #	0 ##	0.684 #	1.51 #	0.118 #	0.190 #	NA	NA	2.51 #	0	0.283 #	2.64 #	3.58 #	10.1	0.271 #	1.54 #	2.58 #	0.419 #	0.597		
Radiological	Beta particles	50	*	pCi/L	7.70	2.98	6.88	2.24 #	3.18 #	0.398 #	0.517 #	2.51 #	4.54	9.76	0.365 #	1.96 #	NA	NA	12.2	2.03 #	1.17 #	56.1	5.32	7.27	2.82 #	8.68	5.69	0.964 #	2.96 #	
Radiological	Tritium			pCi/L	0 ##	0 ##	56.8 #	0 ##	0 ##	65.7 #	0 ##	67.8 #	0 ##	9.11 #	0 ##	0 ##	NA	NA	39.3 #	150 #	151 #	201 #	NA	NA	NA	NA	NA	NA		
Radiological	Technetium-99	900		pCi/L	NA	NA	NA	NA	NA	NA	NA	0.128 #	0.136 #	0.0281 #	NA	0 ##	NA	NA	0 ##	0 ##	0.311 #	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	
Radiological	Uranium-233/234			pCi/L	NA	NA	NA	NA	NA	NA	NA	0.0898 #	0.0816 #	0.0190 #	NA	0.0503 #	0 ##	NA	0 ##	0.0253 #	NA	0.00994 #	0.0794 #	0.0748 #	0 ##	NA	0 #	0 ##	0.0707 #	
Radiological	Uranium-235/236			pCi/L	NA	NA	NA	NA	NA	NA	NA	0.0983 #	0.0660 #	0 ##	NA	0.0407 #	0.0522 #	NA	NA	0.0168 #	0.136 #	NA	0.0367 #	0.466	0.269	0 ##	NA	0 ##	0.0224 #	0 ##
Radiological	Percent Uranium-235		%	NA	NA	NA	NA	NA	NA	NA	0 #	0 #	0 #	NA	0 #	0 #	NA	0 #	0 #	NA	0 #	0 #	0 #	NA	0 #	0 #	0 #	0 #		
Radiological	Uranium-234		ug/L	NA	NA	NA	NA	NA	NA	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	NA	NA	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500		
Radiological	Uranium-235		ug/L	NA	NA	NA	NA	NA	NA	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	NA	NA	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700		
Radiological	Uranium-238		ug/L	NA	NA	NA	NA	NA	NA	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	NA	NA	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200		
Radiological	Total Uranium Isotopes	30	ug/L	NA	NA	NA	NA	NA	NA	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	NA	NA	< 0.200	< 0.200	< 0.200	< 0.200	0.419	0.295	0.0841 J	0.0826 J	< 0.200	< 0.200	< 0.200	
Chemical	Fluoride	4	mg/L	NA	NA	NA	NA	NA	NA	0.025	0.024	0.004 J	NA	NA	< 0.1	0.00100 J	0.025 J	< 0.10	< 0.10	< 0.10	NA	0.126	0.106	0.138	0.0990 J	0.091 J	< 0.10			
Chemical	Nitrate as N	10	mg/L	0.12	0.11	< 0.02	0.033	0.02	0.042	0.13	< 0.020	< 0.02	< 0.020	< 0.020	< 0.020	< 0.020	NA	NA	< 0.020	0.099	0.022	0.020	< 0.02	0.067	< 0.02	0.069	< 0.020	0.10	0.063	
Chemical	Ammonia as N		mg/L	NA	NA	NA	NA	NA	NA	0.0283	0.0313	0.0332 J	NA	NA	0.0133 J	0.0262 J	0.0398 J	NA	NA	NA	NA	NA	NA	NA	1.91	0.715	0.807	0.217	0.249	NA
Metals	Aluminum		ug/L	NA	NA	NA	NA	NA	NA	< 200	97.6 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	486	199 J	NA	NA	NA	NA	
Metals	Antimony	6	ug/L	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.52 J	< 20.0	NA	NA	NA	NA
Metals	Arsenic	10	ug/L	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA
Metals	Barium	2000	ug/L	NA	NA	NA	NA	NA	NA	NA	12.1	11.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	94	77.3	NA	NA	NA	NA
Metals	Beryllium	4	ug/L	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA
Metals	Cadmium	5	ug/L	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA
Metals	Calcium		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	4310	3880	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12600	19600	NA	NA	NA	NA
Metals	Chromium	100	ug/L	NA	NA	NA	NA	NA	NA	< 10.0	< 10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.95 J	< 10.0	NA	NA	NA	NA
Metals	Cobalt		ug/L	NA	NA	NA	NA	NA	NA	< 5.00	1.12 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	1.04 J	NA	NA	NA	NA
Metals	Copper	1300	ug/L	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA
Metals	Iron		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	626	395	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19700	9690	NA	NA	NA	NA
Metals	Lead	15	ug/L	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.1 J	< 20.0	NA	NA	NA	NA
Metals	Magnesium		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	2260	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5040	4240	NA	NA	NA	NA
Metals	Manganese		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	2.37 J	2.26 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	272	516	NA	NA	NA	NA
Metals	Mercury	2	ug/L	NA	NA	NA	NA	NA	NA	< 0.200	< 0.200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.200	< 0.200	NA	NA	NA	NA	
Metals	Nickel		ug/L	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	1.82 J	NA	NA	NA	NA
Metals	Potassium		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	934	730	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2500	2690	NA	NA	NA	NA
Metals	Selenium	50	ug/L	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA
Metals	Silver		ug/L	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.56 J	< 5.00	NA	NA	NA	NA
Metals	Sodium		ug/L	NA																										

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-24 7/11/2017	W-24 10/13/2017	W-24 1/12/2018	W-24 4/17/2018	W-24 7/10/2018	W-24 10/16/2018	W-24 1/25/2019	W-24 10/11/2019	W-24 4/22/2020	W-24 10/22/2020	W-24 4/23/2021	W-24 6/9/2021	W-24 10/21/2021	W-24 4/20/2022	W-24 10/21/2022	W-24 4/18/2023	W-25 1/30/2019	W-25 10/16/2019	W-25 4/27/2020	W-25 10/27/2020	W-25 4/22/2021	W-25 10/26/2021	W-25 4/21/2022	
Group	Analyte	MCL	note	Units																						
SVOCs	Caprolactam			ug/L	NA	< 8	NA	NA	NA	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA
SVOCs	Carbazole			ug/L	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	Chrysene			ug/L	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA
SVOCs	Di-n-butyl phthalate			ug/L	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	NA	NA	NA	NA	NA	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA
SVOCs	Di-n-octyl phthalate			ug/L	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	NA	NA	NA	NA	NA	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA
SVOCs	Dibenz(a,h)anthracene			ug/L	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA
SVOCs	Dibenzofuran			ug/L	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	Diethyl phthalate			ug/L	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	NA	NA	NA	NA	NA	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA
SVOCs	Dimethyl phthalate			ug/L	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	NA	NA	NA	NA	NA	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA
SVOCs	Fluoranthene			ug/L	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA
SVOCs	Fluorene			ug/L	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA
SVOCs	Hexachlorobenzene	1		ug/L	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	Hexachlorobutadiene			ug/L	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	Hexachlorocyclopentadiene	50		ug/L	NA	< 20	NA	NA	NA	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA
SVOCs	Hexachloroethane			ug/L	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA
SVOCs	Isophorone			ug/L	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	N-Nitrosodi-n-propylamine			ug/L	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	N-Nitrosodiphenylamine			ug/L	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	Naphthalene			ug/L	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA
SVOCs	Nitrobenzene			ug/L	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	Pentachlorophenol	1		ug/L	NA	< 20	NA	NA	NA	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Phenanthrene			ug/L	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA
SVOCs	Phenol			ug/L	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	Pyrene			ug/L	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA
VOCs	Acetone			ug/L	NA	< 20	NA	NA	NA	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA
VOCs	Benzene	5		ug/L	NA	< 1	NA	NA	NA	< 1	< 1	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	< 1	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA
VOCs	Bromodichloromethane			ug/L	NA	< 1	NA	NA	NA	< 1	< 1	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA</								

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Well			W-25	W-25	W-26	W-26	W-26	W-26	W-26	W-26	W-26	W-26	W-26	W-26	W-26	W-26	W-26	W-26	W-26	W-26	W-26	W-26	W-26	W-26					
Group	Analyte	MCL	note	Units	W-25 10/21/2022 N	W-25 4/21/2023 N	W-26 1/12/2015 N	W-26 4/9/2015 N	W-26 7/10/2015 N	W-26 10/9/2015 FD	W-26 1/20/2016 N	W-26 7/5/2016 N	W-26 10/6/2016 N	W-26 1/10/2017 N	W-26 4/3/2017 N	W-26 7/6/2017 N	W-26 10/13/2017 N	W-26 1/9/2018 N	W-26 4/10/2018 N	W-26 7/10/2018 N	W-26 10/16/2018 N	W-26 1/24/2019 N	W-26 4/10/2019 N	W-26 10/14/2019 N	W-26 4/16/2020 N	W-26 10/19/2020 N	W-26 4/16/2021 FD		
Radiological	Alpha particles	15	*	pCi/L	NA	NA	0 #	0.569 #	1.12 #	1.03 #	1.84 #	0 #	0.234 #	0 #	2.70 #	1.07 #	1.92 #	9.17	4.13	4.12 #	1.19 #	1.81 #	0.261 #	0.697 #	0.249 #	0 ##	0.543 #	0.684 #	
Radiological	Beta particles	50	*	pCi/L	NA	NA	11.6	0 #	12.5	7.90	10.6	12.5	8.00	7.29	5.66	9.84	8.46	11.7	16.4	15.6	12.7	6.87	12.5	13.4	12.5	9.39	5.29	7.92	7.18
Radiological	Tritium			pCi/L	NA	NA	4.07 #	18.6 #	0 #	0 #	0 #	0 #	0 #	0 #	15.0 #	0 #	0 #	64.4 #	0 ##	12.7 #	0 ##	116 #	38.6 #	0 ##	0.933 #	0 ##	53.1 #		
Radiological	Technetium-99	900		pCi/L	0 ##	0 ##	38.7 #	0 #	83.8 #	33.8 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Uranium-233/234			pCi/L	NA	0 ##	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Uranium-235/236			pCi/L	NA	0.120 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Uranium-238			pCi/L	NA	0.0785 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Percent Uranium-235		%	NA	0 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0 #	0 #	NA	0 #	0 #	0 #	0 #	
Radiological	Uranium-234		ug/L	< 0.0500	< 0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Radiological	Uranium-235		ug/L	< 0.0700	< 0.0700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700
Radiological	Uranium-238		ug/L	< 0.200	< 0.200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200
Radiological	Total Uranium Isotopes	30	ug/L	< 0.200	< 0.200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0947 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200
Chemical	Fluoride	4	mg/L	< 0.10	< 0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chemical	Nitrate as N	10	mg/L	0.17	0.22	2.9	2.9	2.7	2.7	2.8	3	2.8	2.7	3.3	3.1	3.4	3	2.9	3.6	3.5	3.3	3.2	2.5	3	3.4	3.0			
Chemical	Ammonia as N		mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Aluminum		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Antimony	6	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Arsenic	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Barium	2000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Beryllium	4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Cadmium	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Calcium		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Chromium	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Cobalt		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Copper	1300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Iron		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Lead	15	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Magnesium		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Manganese		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Mercury	2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Nickel		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Potassium		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Selenium	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Silver		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Sodium		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Thallium	2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Vanadium		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Zinc		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	1,1'-Biphenyl		ug/L	NA	NA	< 5.2	< 5	< 5	< 5	< 5	NA	< 5	< 5	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	
SVOCs	2,4,5-Trichlorophenol	</																											

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-25 10/21/2022	W-25 4/21/2023	W-26 1/12/2015	W-26 4/9/2015	W-26 7/10/2015	W-26 10/9/2015	W-26 10/9/2015 FD	W-26 1/20/2016	W-26 4/18/2016	W-26 7/5/2016	W-26 10/6/2016 N	W-26 1/10/2017 N	W-26 4/3/2017 N	W-26 7/6/2017 N	W-26 10/13/2017 N	W-26 1/9/2018 N	W-26 4/10/2018 N	W-26 7/10/2018 N	W-26 10/16/2018 N	W-26 1/24/2019 N	W-26 10/14/2019 N	W-26 4/16/2020 N	W-26 10/19/2020 N	W-26 4/16/2021 N	W-26 4/16/2021 FD	
Group	Analyte	MCL	note	Units																								
SVOCs	Caprolactam			ug/L	NA	NA	< 26	< 25	< 25	NA	< 25	90	< 26	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8.0	< 8	< 4.0	< 4.0	< 4.0		
SVOCs	Carbazole			ug/L	NA	NA	< 5.2	< 5	< 5	NA	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80		
SVOCs	Chrysene			ug/L	NA	NA	< 5.2	< 5	< 5	NA	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4	< 0.16	< 0.16	< 0.16		
SVOCs	Di-n-butyl phthalate			ug/L	NA	NA	< 5.2	< 5	< 5	NA	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	< 4.0		
SVOCs	Di-n-octyl phthalate			ug/L	NA	NA	< 5.2	< 5	< 5	NA	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	< 4.0		
SVOCs	Dibenz(a,h)anthracene			ug/L	NA	NA	< 5.2	< 5	< 5	NA	< 5	< 5	< 5.3	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.80	< 0.80	< 0.16	< 0.16	< 0.16		
SVOCs	Dibenzofuran			ug/L	NA	NA	< 5.2	< 5	< 5	NA	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80		
SVOCs	Diethyl phthalate			ug/L	NA	NA	< 5.2	< 5	< 5	NA	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	< 4.0		
SVOCs	Dimethyl phthalate			ug/L	NA	NA	< 5.2	< 5	< 5	NA	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	< 4.0		
SVOCs	Fluoranthene			ug/L	NA	NA	< 5.2	< 5	< 5	NA	< 5	< 5	< 5.3	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.80	< 0.80	< 0.16	< 0.16	< 0.16		
SVOCs	Fluorene			ug/L	NA	NA	< 5.2	< 5	< 5	NA	< 5	< 5	< 5.3	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.80	< 0.80	< 0.16	< 0.16	< 0.16		
SVOCs	Hexachlorobenzene	1		ug/L	NA	NA	< 5.2	< 5	< 5	NA	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80		
SVOCs	Hexachlorobutadiene			ug/L	NA	NA	< 5.2	< 5	< 5	NA	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80		
SVOCs	Hexachlorocyclopentadiene	50		ug/L	NA	NA	< 26	< 25	< 25	NA	< 25	< 25	< 26	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 4.0	< 4.0	< 4.0	
SVOCs	Hexachloroethane			ug/L	NA	NA	< 5.2	< 5	< 5	NA	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80		
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	NA	NA	< 5.2	< 5	< 5	NA	< 5	< 5	< 5.3	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.80	< 0.80	< 0.16	< 0.16	< 0.16		
SVOCs	Isophorone			ug/L	NA	NA	< 5.2	< 5	< 5	NA	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80		
SVOCs	N-Nitrosodi-n-propylamine			ug/L	NA	NA	< 5.2	< 5	< 5	NA	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80		
SVOCs	N-Nitrosodiphenylamine			ug/L	NA	NA	< 5.2	< 5	< 5	NA	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80		
SVOCs	Naphthalene			ug/L	NA	NA	< 5.2	< 5	< 5	NA	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4	< 0.16	< 0.16	< 0.16		
SVOCs	Nitrobenzene			ug/L	NA	NA	< 5.2	< 5	< 5	NA	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80		
SVOCs	Pentachlorophenol	1		ug/L	NA	NA	< 26	< 25	< 25	NA	< 25	< 25	< 26	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 4.0	< 4.0	< 4.0		
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Phenanthrene			ug/L	NA	NA	< 5.2	< 5	< 5	NA	< 5	< 5	< 5.3	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.80	< 0.80	< 0.16	< 0.16	< 0.16		
SVOCs	Phenol			ug/L	NA	NA	< 5.2	< 5	< 5	NA	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80		
SVOCs	Pyrene			ug/L	NA	NA	< 5.2	< 5	< 5	NA	< 5	&lt																

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-26 10/19/2021	W-26 4/19/2022	W-26 10/18/2022	W-26 4/17/2023	W-27 1/21/2015	W-27 4/16/2015	W-27 7/16/2015	W-27 10/14/2015	W-27 1/20/2016	W-27 4/21/2016	W-27 7/13/2016	W-27 10/18/2016	W-27 1/16/2017	W-27 4/7/2017	W-27 7/12/2017	W-27 10/3/2017	W-27 1/15/2018	W-27 4/22/2018	W-27 7/15/2018	W-27 8/30/2018	W-27 10/29/2018	W-27 10/30/2018	W-27 11/28/2018	W-27 11/28/2018	
Group	Analyte	MCL	note	Units																								
SVOCs	Caprolactam			ug/L	< 4.0	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 8	< 8	NA	< 8	< 8		
SVOCs	Carbazole			ug/L	< 0.80	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	< 4	< 4		
SVOCs	Chrysene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	< 0.8	< 0.8		
SVOCs	Di-n-butyl phthalate			ug/L	< 4.0	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	< 4	< 4		
SVOCs	Di-n-octyl phthalate			ug/L	< 4.0	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	< 4	< 4		
SVOCs	Dibenz(a,h)anthracene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	< 0.8	< 0.8		
SVOCs	Dibenzofuran			ug/L	< 0.80	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	< 4	< 4		
SVOCs	Diethyl phthalate			ug/L	< 4.0	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	< 4	< 4		
SVOCs	Dimethyl phthalate			ug/L	< 4.0	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	< 4	< 4		
SVOCs	Fluoranthene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	< 0.8	< 0.8		
SVOCs	Fluorene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	< 0.8	< 0.8		
SVOCs	Hexachlorobenzene	1		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	< 4	< 4		
SVOCs	Hexachlorobutadiene			ug/L	< 0.80	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	< 4	< 4		
SVOCs	Hexachlorocyclopentadiene	50		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20	< 20	NA	< 20	< 20		
SVOCs	Hexachloroethane			ug/L	< 0.80	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	< 4	< 4		
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	< 0.8	< 0.8		
SVOCs	Isophorone			ug/L	< 0.80	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	< 4	< 4		
SVOCs	N-Nitrosodi-n-propylamine			ug/L	< 0.80	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	< 4	< 4		
SVOCs	N-Nitrosodiphenylamine			ug/L	< 0.80	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	< 4	< 4		
SVOCs	Naphthalene			ug/L	0.33	< 0.16	< 0.16	0.95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	< 0.8	< 0.8		
SVOCs	Nitrobenzene			ug/L	< 0.80	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	< 4	< 4		
SVOCs	Pentachlorophenol	1		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20	< 20	NA	< 20	< 20		
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Phenanthrene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	< 0.8	< 0.8		
SVOCs	Phenol			ug/L	< 0.80	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	< 4	< 4		
SVOCs	Pyrene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	< 0.8	< 0.8		
VOCs	Acetone			ug/L	< 20	< 20	< 25.0	< 20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20	< 20	NA	< 20	< 20		
VOCs	Benzene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1	< 5	NA	< 5	< 5		
VOCs	Bromodichloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1	< 5	NA	< 5	< 5		
VOCs	Bromoform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1	< 5	NA	< 5	< 5		
VOCs	Bromomethane			ug/L	< 2.0	< 2.																						

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-27 1/29/2019	W-27 10/10/2019	W-27 4/27/2020	W-27 10/26/2020	W-27 4/21/2021	W-27 10/22/2021	W-27 4/21/2022	W-27 10/19/2022	W-27 4/20/2023	W-28 1/19/2015	W-28 1/29/2015	W-28 4/13/2015	W-28 7/13/2015	W-28 10/12/2015	W-28 1/14/2016	W-28 4/19/2016	W-28 7/8/2016	W-28 10/11/2016	W-28 1/17/2017	W-28 4/6/2017	W-28 7/10/2017	W-28 1/8/2018	W-28 4/20/2018	W-28 7/13/2018	
Group	Analyte	MCL	note	Units																								
Radiological	Alpha particles	15	*	pCi/L	1.31 #	0 ##	3.64 #	3.98	1.10 #	0 ##	0	NA	NA	13.4	NA	3.15 #	3.93	4.19 #	0 ##	5.52	NA	NA	NA	NA	NA	NA	8.02	
Radiological	Beta particles	50	*	pCi/L	6.18	5.10	10.9	28.8	4.71	5.28	4.35	NA	NA	43.4	NA	33.9	19.9	14.1	15.4	17.7	NA	NA	NA	NA	NA	NA	NA	12.4
Radiological	Tritium			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	330 #	0 ##	129 #	0 ##	128 #	0 ##	NA	NA	NA	NA	NA	NA	NA	
Radiological	Technetium-99	900		pCi/L	17.3 #	2.42 #	3.23 #	1.89 #	3.08 #	3.49 #	3.05	1.86 #	2.03 #	0 ##	NA	82.5 #	0 ##	44.5 #	NA	NA	NA	NA	NA	NA	NA	NA		
Radiological	Uranium-233/234			pCi/L	0.168 #	0.0588 #	0.00249 #	NA	0 ##	0.0360 #	0 ##	NA	0.0137 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Radiological	Uranium-235/236			pCi/L	0.0442 #	0.198	0.0456 #	NA	0 ##	0.0765 #	0.0247 #	NA	0 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Radiological	Uranium-238			pCi/L	0.107 #	0.171 #	0 ##	NA	0 ##	0.0631 #	0 ##	NA	0.0712 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Radiological	Percent Uranium-235		%	#	15.2	0 #	NA	0 #	NA	0 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Radiological	Uranium-234			ug/L	<0.0500	<0.050	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Uranium-235			ug/L	<0.0700	<0.070	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Uranium-238			ug/L	<0.200	<0.200	<0.200	0.166 J	0.136 J	0.0985 J	<0.200	<0.200	<0.200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Total Uranium Isotopes	30		ug/L	<0.200	<0.200	<0.200	0.166 J	0.136 J	0.0985 J	<0.200	<0.200	<0.200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chemical	Fluoride	4		mg/L	NA	3.97	4.02	3.56	3.19	2.52	3.2	2.9	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chemical	Nitrate as N	10		mg/L	0.029	<0.020	0.076	0.072	<0.020	0.020	0.12	0.066	<0.020	1.4	NA	5.1	5.2	5.3	3.5	1.7	2.4	3.6	6.3	5.7	6.7	5.3	6.2	
Chemical	Ammonia as N			mg/L	NA	6.29	6.81	7.21	5.44	5.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Aluminum			ug/L	NA	<200	<200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Antimony	6		ug/L	NA	<20.0	<20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Arsenic	10		ug/L	NA	<30.0	<30.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Barium	2000		ug/L	NA	220	185	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Beryllium	4		ug/L	NA	<5.00	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Cadmium	5		ug/L	NA	<5.00	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Calcium			ug/L	NA	10700	11600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Chromium	100		ug/L	NA	2.06 J	1.35 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Cobalt			ug/L	NA	<5.00	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Copper	1300		ug/L	NA	<20.0	<20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Iron			ug/L	NA	29000	27400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Lead	15		ug/L	NA	<20.0	<20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Magnesium			ug/L	NA	13900	13100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Manganese			ug/L	NA	5370	5630	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Mercury	2		ug/L	NA	<0.200	<0.200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Nickel			ug/L	NA	<5.00	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Potassium			ug/L</																								

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-28 10/23/2018	W-28 1/18/2019	W-28 4/16/2019	W-28 7/11/2019	W-28 10/7/2019	W-28 2/4/2020	W-28 4/3/2020	W-28 7/13/2020	W-28 10/7/2020	W-28 10/13/2020	W-28 10/13/2020	W-28 1/26/2021	W-28 4/7/2021	W-28 10/6/2021	W-28 4/5/2022	W-28 10/6/2022	W-28 1/5/2023	W-28 4/6/2023	W-29 1/19/2015	W-29 4/13/2015	W-29 7/13/2015	W-29 10/12/2015	W-29 1/14/2016	W-29 4/19/2016				
Group	Analyte	MCL	note	Units																											
Radiological	Alpha particles	15	*	pCi/L	1.26 #	0 ##	4.36 #	2.25 #	3.14 #	4.57 #	1.78 #	1.96 #	0.673 #	1.73 #	NA	NA	1.85 #	1.58 #	7.01	2.81 #	NA	NA	NA	4.92	5.36	6.09	4.89 #	1.56 #	4.41		
Radiological	Beta particles	50	*	pCi/L	7.30	7.28	7.69	8.47	8.26	6.09	3.86	6.29	8.57	4.94	NA	NA	5.83	4.44 #	7.16	6.45	NA	NA	NA	11.0	10.2	8.79	11.5	6.22	8.41		
Radiological	Tritium			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0 ##	68.9 #	0 ##	0 ##	93.4 #	0 ##		
Radiological	Technetium-99	900		pCi/L	NA	0 ##	6.77 #	7.91 #	20.1 #	0 ##	0 ##	0 ##	0 ##	0 ##	0.201 #	NA	NA	0.0670 #	1.87 #	2.14 #	1.44 #	0 ##	NA	NA	0 ##	0 ##	0 ##	55.2 #	NA	NA	
Radiological	Uranium-233/234			pCi/L	NA	0.369	0.875	0.806	0.672	0.828	0.665	0.680	NA	NA	NA	NA	0.775	1.02	1.89	0.507	NA	NA	NA	1.95	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-235/236			pCi/L	NA	0.0893 #	0.0810 #	0.00224 #	0 #	0.0297 #	0 ##	0 ##	NA	NA	NA	NA	0.0936 #	0.0388 #	0.0987 #	0 ##	NA	NA	NA	0.208	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-238			pCi/L	NA	0.146 #	0.176 #	0.295	0.119 #	0.143 #	0.0287 #	0.0846 #	NA	NA	NA	NA	0.270	0.326	0.472	0.0644 #	NA	NA	NA	0.794	NA	NA	NA	NA	NA	NA	NA
Radiological	Percent Uranium-235		%	NA	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	NA	NA	NA	NA	0 #	0 #	0 #	0 #	NA	NA	NA	3.91	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-234		ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	NA	NA	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	NA	< 0.0500	NA	NA	NA	NA	NA	NA	NA	
Radiological	Uranium-235		ug/L	0.0106 J	< 0.0700	0.0113 J	0.0117 J	< 0.070	0.0101 J	0.0136 J	0.017 J	0.0221 J	0.0233 J	NA	NA	0.0206 J	0.0168 J	0.0411 J	0.0141 J	0.0302 J	0.0434 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Uranium-238		ug/L	0.531	0.456	0.491	0.573	0.429	0.546	0.696	0.877	1.21	1.2	NA	NA	0.957	0.879	2.04	0.683	1.61	2.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Total Uranium Isotopes	30	ug/L	0.541	0.456	0.504	0.585	0.429	0.556	0.71	0.894	1.23	1.22	NA	NA	0.978	0.895	2.08	0.697	1.64	2.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chemical	Fluoride	4	mg/L	NA	NA	NA	NA	NA	5.45	6.55	5.43	3.48	NA	NA	6.4	6.28	5.95	6.30	8.11	6.3	NA	5.4	4.3	NA	NA	NA	NA	NA	NA	NA	
Chemical	Nitrate as N	10	mg/L	NA	7.2	7.4	7.4	6.3	8	6.6	6.3	5.1	NA	NA	6.0	5.9	7.9	12	NA	9.1	66	64	58	51	53	40	NA	NA	NA		
Chemical	Ammonia as N		mg/L	NA	NA	NA	NA	NA	0.884	0.032 J	0.0355	0.11	NA	NA	0.0472 J	0.0534 J	0.233	0.100	0.277	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Aluminum		ug/L	NA	NA	NA	NA	NA	981	270	205	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Antimony	6	ug/L	NA	NA	NA	NA	NA	< 20.0	8.44 J	12.1 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Arsenic	10	ug/L	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Barium	2000	ug/L	NA	NA	NA	NA	NA	44.1	37.8	45.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Beryllium	4	ug/L	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Cadmium	5	ug/L	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Calcium		ug/L	NA	NA	NA	NA	NA	10500	21800	23800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Chromium	100	ug/L	NA	NA	NA	NA	NA	< 10.0	1.61 J	1.78 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Cobalt		ug/L	NA	NA	NA	NA	NA	7.88	1.33 J	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Copper	1300	ug/L	NA	NA	NA	NA	NA	3.83 J	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Iron		ug/L	NA	NA	NA	NA	NA	56.3 J	46.2 J	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Lead	15	ug/L	NA	NA	NA	NA	NA	< 20.0	4.63 J	5.52 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Magnesium		ug/L	NA	NA	NA	NA	NA	995	1580	1660	NA	NA	NA	NA	NA															

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			Well Date Type	W-28 10/23/2018	W-28 1/18/2019	W-28 4/16/2019	W-28 7/11/2019	W-28 10/7/2019	W-28 2/4/2020	W-28 4/3/2020	W-28 7/13/2020	W-28 10/7/2020	W-28 10/13/2020	W-28 10/13/2020	W-28 1/26/2021	W-28 4/7/2021	W-28 10/6/2021	W-28 4/5/2022	W-28 10/6/2022	W-28 1/5/2023	W-28 4/6/2023	W-29 1/19/2015	W-29 4/13/2015	W-29 7/13/2015	W-29 10/12/2015	W-29 1/14/2016	W-29 4/19/2016
Group	Analyte	MCL	note	Units																							
SVOCs	Caprolactam			ug/L	NA	< 8	< 8	< 8	< 8.0	< 8	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Carbazole			ug/L	NA	< 4	< 4	< 4	< 4.0	< 4	< 4	< 0.8	< 0.80	NA	NA	NA	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Chrysene			ug/L	NA	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Di-n-butyl phthalate			ug/L	NA	< 4	< 4	< 4	< 4.0	< 4	< 4	< 4	< 4.0	NA	NA	NA	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Di-n-octyl phthalate			ug/L	NA	< 4	< 4	< 4	< 4.0	< 4	< 4	< 4	< 4.0	NA	NA	NA	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Dibenz(a,h)anthracene			ug/L	NA	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Dibenzofuran			ug/L	NA	< 4	< 4	< 4	< 4.0	< 4	< 4	< 0.8	< 0.80	NA	NA	NA	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Diethyl phthalate			ug/L	NA	< 4	< 4	< 4	< 4.0	< 4	< 4	< 4	< 4.0	NA	NA	NA	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Dimethyl phthalate			ug/L	NA	< 4	< 4	< 4	< 4.0	< 4	< 4	< 4	< 4.0	NA	NA	NA	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Fluoranthene			ug/L	NA	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Fluorene			ug/L	NA	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Hexachlorobenzene	1		ug/L	NA	< 4	< 4	< 4	< 4.0	< 4	< 4	< 0.8	< 0.80	NA	NA	NA	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Hexachlorobutadiene			ug/L	NA	< 4	< 4	< 4	< 4.0	< 4	< 4	< 0.8	< 0.80	NA	NA	NA	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Hexachlorocyclopentadiene	50		ug/L	NA	< 20	< 20	< 20	< 20	< 20	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Hexachloroethane			ug/L	NA	< 4	< 4	< 4	< 4.0	< 4	< 4	< 0.8	< 0.80	NA	NA	NA	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	NA	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Isophorone			ug/L	NA	< 4	< 4	< 4	< 4.0	< 4	< 4	< 0.8	< 0.80	NA	NA	NA	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	N-Nitrosodi-n-propylamine			ug/L	NA	< 4	< 4	< 4	< 4.0	< 4	< 4	< 0.8	< 0.80	NA	NA	NA	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	N-Nitrosodiphenylamine			ug/L	NA	< 4	< 4	< 4	< 4.0	< 4	< 4	< 0.8	< 0.80	NA	NA	NA	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Naphthalene			ug/L	NA	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Nitrobenzene			ug/L	NA	< 4	< 4	< 4	< 4.0	< 4	< 4	< 0.8	< 0.80	NA	NA	NA	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Pentachlorophenol	1		ug/L	NA	< 20	< 20	< 20	< 20	< 20	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	NA	< 1.0	< 0.98	< 0.98	NA	NA	NA	< 0.98	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Phenanthrene			ug/L	NA	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Phenol			ug/L	NA	< 4	< 4	< 4	< 4.0	< 4	< 4	< 0.8	< 0.80	NA	NA	NA	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Pyrene			ug/L	NA	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	
VOCs	Acetone			ug/L	NA	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	NA	NA	NA	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20		
VOCs	Benzene	5		ug/L	NA	< 1	< 1	< 1	< 1.0	< 1	< 1	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
VOCs	Bromodichloromethane			ug/L	NA	< 1	< 1	< 1	< 1.0	< 1	< 1	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
VOCs	Bromoform			ug/L	NA	< 1	< 1	< 1	< 1.0	&lt																	

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			Well Date Type	W-29 7/8/2016	W-29 10/11/2016	W-29 1/16/2017	W-29 4/6/2017	W-29 7/10/2017	W-29 10/12/2017	W-29 1/8/2018	W-29 4/16/2018	W-29 7/13/2018	W-29 10/23/2018	W-29 1/10/2019	W-29 10/7/2019	W-29 4/3/2020	W-29 10/7/2020	W-29 10/13/2020	W-29 4/8/2021	W-29 10/8/2021	W-29 4/6/2022	W-29 10/10/2022	W-29 1/5/2023	W-29 4/6/2023	W-30 1/19/2015	W-30 4/13/2015	W-30 7/13/2015	W-30 10/12/2015			
Group	Analyte	MCL note	Units																												
Radiological	Alpha particles	15 *	pCi/L	4.63 #	3.79	11.2	3.89	9.80	7.19	7.23	3.21 #	3.71 #	1.78 #	5.04	2.25 #	0.844 #	0.556 #	NA	1.81 #	3.21 #	2.44 #	1.38 #	NA	1.21 #	22.4	23.7	12.2	12.9			
Radiological	Beta particles	50 *	pCi/L	8.46	9.79	4.94	0.947 #	9.68	5.77	9.82	3.01 #	4.62	3.98	3.42 #	7.67	8.48	10.6	NA	7.40	6.80	7.79	13.0	NA	NA	33.9	35.6	21.7	21.4			
Radiological	Tritium		pCi/L	153 #	0 ##	0 ##	0 ##	0 ##	138 #	0 ##	175 #	0 ##	153 #	116 #	0 ##	0 ##	NA	0 ##	27.8 #	0 ##	48.3 #	NA	298 #	21.6 #	0 ##	0 ##	0 ##	0 ##			
Radiological	Technetium-99	900	pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0 ##	11.6 #	8.62	8.97	NA	5.21	8.95	11.6	10.2	NA	44.8	54.4 #	4.93 #	0 ##	14.8 #		
Radiological	Uranium-233/234		pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.38	1.20	0.0704 #	NA	NA	0.672	0.314 #	0.351 #	NA	NA	0.335	NA	NA	NA	NA	NA	
Radiological	Uranium-235/236		pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0673 #	0 #	0.0220 #	NA	NA	0.00665 #	0.0950 #	0 ##	NA	NA	0.0671 #	NA	NA	NA	NA	NA	
Radiological	Uranium-238		pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.746	0.972	0.129 #	NA	NA	0.384	0.329	0.159 #	NA	NA	0.197	NA	NA	NA	NA	NA	
Radiological	Percent Uranium-235	%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0 #	0 #	0 #	NA	NA	0 #	0 #	NA	NA	0 #	NA	NA	NA	NA	NA		
Radiological	Uranium-234	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0500	< 0.0500	< 0.0500	< 0.0500	NA	< 0.0500	< 0.0500	< 0.0500	< 0.0500	NA	< 0.0500	NA	NA	NA	NA		
Radiological	Uranium-235	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0385 J	0.0333 J	0.026 J	0.0167 J	0.021 J	NA	0.0120 J	0.0145 J	< 0.0700	< 0.0700	NA	< 0.0700	NA	NA	NA	NA	
Radiological	Uranium-238	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.24	2.17	2.03	1.36	1.54	NA	0.938	1.04	0.639	0.396	NA	0.389	NA	NA	NA	NA	
Radiological	Total Uranium Isotopes	30	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Chemical	Fluoride	4	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Chemical	Nitrate as N	10	mg/L	37	39	36	32	29	32	20	15	13	7.3	6.4	11	17	13	NA	9.9	10	26	35	NA	25	78	42	69	130			
Chemical	Ammonia as N		mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.4	13.2	NA	13.9	9.04	11.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Aluminum		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 200	< 200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Antimony	6	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0	14.1 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Arsenic	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Barium	2000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Beryllium	4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Cadmium	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Calcium		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18800	23000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Chromium	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 10.0	< 10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Cobalt		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Copper	1300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Iron		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Lead	15	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0	7.39 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Magnesium		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5250	6580	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Manganese		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.7	66.3	NA	NA	NA	NA</										

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			Well Date Type	W-29 7/8/2016	W-29 10/11/2016	W-29 1/16/2017	W-29 4/6/2017	W-29 7/10/2017	W-29 10/12/2017	W-29 1/8/2018	W-29 4/16/2018	W-29 7/13/2018	W-29 10/23/2018	W-29 1/10/2019	W-29 10/7/2019	W-29 4/3/2020	W-29 10/7/2020	W-29 10/13/2020	W-29 4/8/2021	W-29 10/8/2021	W-29 4/6/2022	W-29 10/10/2022	W-29 1/5/2023	W-29 4/6/2023	W-30 1/19/2015	W-30 4/13/2015	W-30 7/13/2015	W-30 10/12/2015
Group	Analyte	MCL	note	Units																								
SVOCs	Caprolactam			ug/L	NA	NA	NA	NA	NA	< 8	NA	NA	NA	< 8	< 8	< 8.0	< 8	< 4.0	NA	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Carbazole			ug/L	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	NA	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Chrysene			ug/L	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Di-n-butyl phthalate			ug/L	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	NA	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Di-n-octyl phthalate			ug/L	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	NA	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Dibenz(a,h)anthracene			ug/L	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Dibenzofuran			ug/L	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	NA	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Diethyl phthalate			ug/L	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	NA	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Dimethyl phthalate			ug/L	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	NA	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Fluoranthene			ug/L	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Fluorene			ug/L	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Hexachlorobenzene	1		ug/L	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	NA	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Hexachlorobutadiene			ug/L	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	NA	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Hexachlorocyclopentadiene	50		ug/L	NA	NA	NA	NA	NA	< 20	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	NA	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Hexachloroethane			ug/L	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	NA	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Isophorone			ug/L	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	NA	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	N-Nitrosodi-n-propylamine			ug/L	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	NA	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	N-Nitrosodiphenylamine			ug/L	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	NA	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Naphthalene			ug/L	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Nitrobenzene			ug/L	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	NA	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Pentachlorophenol	1		ug/L	NA	NA	NA	NA	NA	< 20	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	NA	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	< 20	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	NA	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Phenanthrene			ug/L	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Phenol			ug/L	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	NA	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Pyrene			ug/L	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	Acetone			ug/L	NA	NA	NA	NA	NA	< 20	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	NA	< 4.0	NA	< 20	< 20	< 20	< 20	< 20	NA	NA
VOCs	Benzene	5		ug/L	NA	NA	NA	NA	NA	< 1	NA	NA	NA	< 1	< 1	< 1.0	< 1	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA
VOCs	Bromodichloromethane			ug/L	NA	NA	NA	NA	NA	< 1	NA	NA	NA	< 1	< 1	< 1.0	< 1	< 1.0	NA	< 1.0	NA	< 1.0						

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			Well Date Type	W-30 1/14/2016	W-30 4/19/2016	W-30 7/8/2016	W-30 10/11/2016	W-30 10/21/2016	W-30 10/24/2016	W-30 1/16/2017	W-30 4/6/2017	W-30 7/10/2017	W-30 10/12/2017	W-30 1/8/2018	W-30 4/16/2018	W-30 7/13/2018	W-30 10/23/2018	W-30 1/15/2019	W-30 10/7/2019	W-30 4/13/2020	W-30 10/12/2020	W-30 4/8/2021	W-30 10/8/2021	W-30 4/7/2022	W-30 10/10/2022	W-30 1/5/2023					
Group	Analyte	MCL	note	Units																											
Radiological	Alpha particles	15	*	pCi/L	27.8	39.7	33.5	NA	44.6	41.9	NA	NA	58.2	35.6	59.6	46.1	54.4	60.0	35.0	23.7	38.6	7.57	14.2	14.0	12.4	6.37	12.6	13.7	NA		
Radiological	Beta particles	50	*	pCi/L	41.3	41.8	40.1	NA	36.2	40.5	NA	NA	28.3	32.3	38.5	38.7	52.6	44.8	35.5	26.5	30.8	20.8	33.9	27.2	29.8	19.9	22.3	57.0	NA		
Radiological	Tritium			pCi/L	129 #	0 ##	31.9 #	NA	0 ##	0 ##	NA	NA	55.8 #	0 ##	0 ##	7.83 #	365 #	0 ##	89.8 #	38.6 #	0 ##	443 #	0 ##	0 ##	0 ##	126 #	0 ##	0 ##	NA		
Radiological	Technetium-99	900		pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.6 #	49.7	48.4	29.0	43.7	48.9	27.0	34.0	NA			
Radiological	Uranium-233/234			pCi/L	17.3	19.8	20.4	NA	22.9	23.3	NA	NA	20.2	18.3	31.7	27.4	28.8	34.4	22.2	15.0	29.3	11.5	8.43	NA	11.0	10.3	11.0	8.69	NA		
Radiological	Uranium-235/236			pCi/L	0.787	1.46	1.40	NA	1.82	1.16	NA	NA	1.03	1.17	2.48	1.76	3.09	2.49	1.36	0.509	2.83	0.914	0.236	NA	0.525	0.446	0.575	0.658	NA		
Radiological	Uranium-238			pCi/L	5.61	6.80	8.12	NA	7.12	7.05	NA	NA	6.09	5.04	7.62	6.85	10.9	10.2	7.02	4.40	10.1	3.31	2.55	NA	2.80	2.54	2.55	2.61	NA		
Radiological	Percent Uranium-235		%		2.13	3.22	2.60	NA	3.83	2.48	NA	NA	2.55	3.48	4.81	3.84	4.22	3.66	2.92	1.76	4.18	4.12	NA	2.83	2.65	3.39	3.76	NA			
Radiological	Uranium-234			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	NA			
Radiological	Uranium-235			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.298	0.533	0.199	0.173	0.206	0.182	0.209	0.186	0.160	NA			
Radiological	Uranium-238			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.4	22.4	8.71	6.91	8.49	7.70	8.82	7.88	6.49	NA			
Radiological	Total Uranium Isotopes	30		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.7	8.91	7.08	8.7	7.89	9.03	8.06	6.65	NA
Chemical	Fluoride	4		mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.5	NA	
Chemical	Nitrate as N	10		mg/L	71	44	44	30	NA	NA	36	35	34	81	85	72	49	68	70	47	45	120	120	69	83	57	43	110	NA	NA	
Chemical	Ammonia as N			mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.83	0.932	1.56	1.37	1.38	NA	NA	NA	
Metals	Aluminum			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	356	677	NA	NA	NA	NA	NA	NA	
Metals	Antimony	6		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Arsenic	10		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Barium	2000		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	234	189	NA	NA	NA	NA	NA	NA	
Metals	Beryllium	4		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.03 J	1.22 J	NA	NA	NA	NA	NA	NA	
Metals	Cadmium	5		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	
Metals	Calcium			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	90700	85800	NA	NA	NA	NA	NA	NA	
Metals	Chromium	100		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 10.0	< 10.0	NA	NA	NA	NA	NA	NA	
Metals	Cobalt			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.24 J	< 5.00	NA	NA	NA	NA	NA	NA	
Metals	Copper	1300		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	
Metals	Iron			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100	< 100	NA	NA	NA	NA	NA	NA	
Metals	Lead	15		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0	4.24 J	NA	NA	NA	NA	NA	NA	
Metals	Magnesium			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4230	4260	NA	NA	NA	NA	NA	NA	
Metals	Manganese			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.2	127	NA	NA	NA	NA	NA	NA	
Metals	Mercury	2		ug																											

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-30 1/14/2016	W-30 4/19/2016	W-30 7/8/2016	W-30 10/11/2016	W-30 10/21/2016	W-30 10/24/2016	W-30 1/16/2017	W-30 4/6/2017	W-30 7/10/2017	W-30 10/12/2017	W-30 1/8/2018	W-30 4/16/2018	W-30 7/13/2018	W-30 10/23/2018	W-30 1/15/2019	W-30 10/7/2019	W-30 4/13/2020	W-30 10/12/2020	W-30 4/8/2021	W-30 10/8/2021	W-30 4/7/2022	W-30 10/10/2022	W-30 1/5/2023
Group	Analyte	MCL	note	Units																						
SVOCs	Caprolactam			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 8	NA	NA	NA	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	NA
SVOCs	Carbazole			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Chrysene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA
SVOCs	Di-n-butyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA
SVOCs	Di-n-octyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA
SVOCs	Dibenz(a,h)anthracene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA
SVOCs	Dibenzofuran			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Diethyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA
SVOCs	Dimethyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA
SVOCs	Fluoranthene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA
SVOCs	Fluorene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA
SVOCs	Hexachlorobenzene	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Hexachlorobutadiene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Hexachlorocyclopentadiene	50		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 20	NA	NA	NA	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA
SVOCs	Hexachloroethane			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA
SVOCs	Isophorone			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	N-Nitrosodi-n-propylamine			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	N-Nitrosodiphenylamine			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Naphthalene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA
SVOCs	Nitrobenzene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Pentachlorophenol	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 20	NA	NA	NA	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 20	NA	NA	NA	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA
SVOCs	Phenanthrene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA
SVOCs	Phenol			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Pyrene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA
VOCs	Acetone			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 20	NA	NA	NA	< 20	< 20	< 20	< 20	< 20	NA	NA	NA	NA	NA
VOCs	Benzene	5		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	NA	NA	< 1	< 1.0	< 1	< 1.0	< 1.0	NA	NA	NA	NA	NA
VOCs	Bromodichloromethane			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	NA	NA	< 1	< 1.0	< 1	< 1.0	< 1.0	NA	NA	NA	NA	NA
VOCs	Bromoform			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	NA	NA	< 1	< 1.0	< 1	< 1.0	< 1.0	NA	NA	NA	NA	NA
VOCs	Bromomethane			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 2	NA	NA	NA	< 2	< 2.0	< 2	< 2.0	< 2.0	NA	NA	NA	NA	NA
VOCs	2-Butanone			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	NA	NA	NA</		

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-30 4/11/2023	W-32 1/19/2015 N	W-32 1/29/2015 N	W-32 4/13/2015 N	W-32 7/13/2015 N	W-32 10/12/2015 N	W-32 1/14/2016 N	W-32 4/19/2016 N	W-32 7/8/2016 N	W-32 10/11/2016 N	W-32 1/17/2017 N	W-32 4/7/2017 N	W-32 7/10/2017 N	W-32 10/12/2017 N	W-32 1/8/2018 N	W-32 4/16/2018 N	W-32 7/13/2018 N	W-32 10/19/2018 N	W-32 1/11/2019 N	W-32 6/5/2019 N	W-32 10/8/2019 N	W-32 4/10/2020 N	W-32 10/5/2020 N	W-32 4/5/2021 N	W-32 10/5/2021 N
Group	Analyte	MCL	note	Units																								
SVOCs	Caprolactam			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 8	NA	NA	NA	< 8	< 8	< 8.0	< 8	< 4.0	< 4.0	NA			
SVOCs	Carbazole			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA			
SVOCs	Chrysene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA			
SVOCs	Di-n-butyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA			
SVOCs	Di-n-octyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA			
SVOCs	Dibenz(a,h)anthracene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA			
SVOCs	Dibenzofuran			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA			
SVOCs	Diethyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA			
SVOCs	Dimethyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA			
SVOCs	Fluoranthene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA			
SVOCs	Fluorene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA			
SVOCs	Hexachlorobenzene	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA			
SVOCs	Hexachlorobutadiene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA			
SVOCs	Hexachlorocyclopentadiene	50		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA			
SVOCs	Hexachloroethane			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA			
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA			
SVOCs	Isophorone			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA			
SVOCs	N-Nitrosodi-n-propylamine			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA			
SVOCs	N-Nitrosodiphenylamine			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA			
SVOCs	Naphthalene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA			
SVOCs	Nitrobenzene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA			
SVOCs	Pentachlorophenol	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA			
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA			
SVOCs	Phenanthrene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA			
SVOCs	Phenol			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA			
SVOCs	Pyrene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA			
VOCs	Acetone			ug/L	< 20	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20	NA	NA	NA	< 20	< 20	< 20	< 20	< 20	< 20	NA			
VOCs	Benzene	5		ug/L	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	NA	NA	< 1	< 1	< 1.0	< 1	< 1.0	< 1.0	NA			
VOCs	Bromodichloromethane			ug/L	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	NA	NA	< 1	< 1	< 1.0	< 1	< 1.0	< 1.0	NA			
VOCs	Bromoform			ug/L	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	NA	NA	< 1	< 1	< 1.0	< 1	< 1.0	< 1.0	NA			
VOCs	Bromomethane			ug/L	< 2.0	NA	NA	NA																				

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Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
 Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-32 4/4/2022	W-32 10/4/2022	W-32 1/3/2023	W-32 4/5/2023	W-33 1/20/2015	W-33 4/14/2015	W-33 4/16/2015	W-33 7/10/2015	W-33 10/9/2015	W-33 1/18/2016	W-33 4/18/2016	W-33 7/5/2016	W-33 10/13/2016	W-33 1/11/2017	W-33 4/3/2017	W-33 7/11/2017	W-33 10/12/2017	W-33 1/12/2018	W-33 4/17/2018	W-33 7/10/2018	W-33 10/16/2018	W-33 1/22/2019	W-33 10/17/2019	W-33 10/17/2019 FD
Group	Analyte	MCL	note	Units																						
SVOCs	Caprolactam			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 8	< 8	NA	NA	NA	< 8	< 8.0	< 8.0		
SVOCs	Carbazole			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4.0	< 4.0		
SVOCs	Chrysene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	NA	NA	< 0.8	< 0.80	< 0.80		
SVOCs	Di-n-butyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4.0	< 4.0		
SVOCs	Di-n-octyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4.0	< 4.0		
SVOCs	Dibenz(a,h)anthracene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	NA	NA	< 0.8	< 0.80	< 0.80		
SVOCs	Dibenzofuran			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4.0	< 4.0		
SVOCs	Diethyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4.0	< 4.0		
SVOCs	Dimethyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4.0	< 4.0		
SVOCs	Fluoranthene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	NA	NA	< 0.8	< 0.80	< 0.80		
SVOCs	Fluorene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	NA	NA	< 0.8	< 0.80	< 0.80		
SVOCs	Hexachlorobenzene	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4.0	< 4.0		
SVOCs	Hexachlorobutadiene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4.0	< 4.0		
SVOCs	Hexachlorocyclopentadiene	50		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20	< 20	NA	NA	NA	< 20	< 20	< 20		
SVOCs	Hexachloroethane			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4.0	< 4.0		
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	NA	NA	< 0.8	< 0.80	< 0.80		
SVOCs	Isophorone			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4.0	< 4.0		
SVOCs	N-Nitrosodi-n-propylamine			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4.0	< 4.0		
SVOCs	N-Nitrosodiphenylamine			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4.0	< 4.0		
SVOCs	Naphthalene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	NA	NA	< 0.8	< 0.80	< 0.80		
SVOCs	Nitrobenzene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4.0	< 4.0		
SVOCs	Pentachlorophenol	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20	< 20	NA	NA	NA	< 20	< 20	< 20		
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	Phenanthrene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	NA	NA	< 0.8	< 0.80	< 0.80		
SVOCs	Phenol			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4.0	< 4.0		
SVOCs	Pyrene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	NA	NA	< 0.8	< 0.80	< 0.80		
VOCs	Acetone			ug/L	< 20	< 20	NA	< 20	NA	< 20	NA	NA	NA	NA	NA	NA	< 100	< 100	NA	NA	NA	< 20	< 20	< 20		
VOCs	Benzene	5		ug/L	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	NA	NA	NA	NA	NA	< 5	< 5	NA	NA	NA	< 1	< 1.0	< 1.0		
VOCs	Bromodichloromethane			ug/L	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	NA	NA	NA	NA	NA	< 5	< 5	NA	NA	NA	< 1	< 1.0	< 1.0		
VOCs	Bromoform			ug/L	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	NA	NA	NA	NA	NA	< 5	< 5	NA	NA	NA	< 1	< 1.0	< 1.0		
VOCs	Bromomethane			ug/L	< 2.0	< 2.0	NA	< 2.0	NA	< 2.0	NA	NA	NA	NA	NA	NA	< 10	< 10	NA	NA	NA	< 2	< 2.0	< 2.0		
VOCs	2-Butanone			ug/L	< 10	< 10	NA	< 10	NA	< 10	NA	NA	NA	NA	NA	NA	< 50	< 50	NA	NA	NA	< 10	< 10	< 10		
VOCs	Carbon disulfide			ug/L	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	NA	NA	NA	NA	NA	< 5	< 5	NA	NA	NA	< 1	< 1.0	< 1.0		
VOCs	Carbon tetrachloride	5		ug/L	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA</td															

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
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			Well Date Type	W-33 4/16/2020	W-33 10/15/2020	W-33 4/16/2021	W-33 10/14/2021	W-33 4/13/2022	W-33 10/13/2022	W-33 1/6/2023	W-33 4/14/2023	W-35 11/1/2018	W-35 1/22/2019	W-35 10/2/2019	W-35 4/21/2020	W-35 10/13/2020	W-35 4/13/2021	W-35 10/14/2021	W-35 4/11/2022	W-35 10/11/2022	W-35 4/12/2023	W-36 8/30/2018	W-36 11/1/2018	W-36 1/18/2019	W-36 10/2/2019	W-36 4/20/2020	W-36 10/16/2020	W-36 4/13/2021	
Group	Analyte	MCL	note	Units																									
Radiological	Alpha particles	15 *	pCi/L	2.26 #	1.30 #	0.128 #	5.46	1.10 #	3.00	NA	0##	0.190 #	0.901 #	0.793 #	0.263 #	3.16	1.04 #	0.639 #	1.08 #	NA	NA	6.82	0##	1.97 #	0.270 #	0.779 #	1.06 #	0.726 #	
Radiological	Beta particles	50 *	pCi/L	5.00	5.36	4.32	84.0	4.45	5.21	NA	1.52 #	3.28 #	1.33 #	3.54 #	2.32 #	1.33 #	0.973 #	3.23 #	0.744 #	NA	NA	1.90 #	0.503 #	3.03 #	0##	4.21	1.44 #	0##	
Radiological	Tritium		pCi/L	65.3 #	77.2 #	0##	75.1 #	0##	94.9 #	NA	285 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	253 #	NA	NA	NA	NA	NA	NA	
Radiological	Technetium-99	900	pCi/L	2.90 #	2.85 #	0.779 #	3.64 #	1.71 #	0.711 #	NA	3.22 #	0##	0##	21.7 #	0##	0.825 #	0##	0.125 #	0##	0##	0##	0.971 #	NA	0##	0##	15.0 #	0##	0.664 #	0##
Radiological	Uranium-233/234		pCi/L	0##	NA	0##	0.0523 #	0.0524 #	NA	NA	0.186 #	0.299 #	0.175 #	0.304	0.123 #	NA	0##	0.0107 #	0.0195 #	NA	0.0709 #	NA	0.00300 #	0.433	0.148 #	0##	NA	0##	
Radiological	Uranium-235/236		pCi/L	0.0619 #	NA	0##	0##	0.0245 #	NA	NA	0.0533 #	0.0951 #	0.0897 #	0.0450 #	0.0570 #	NA	0##	0.0607 #	0##	NA	0.00182 #	NA	0.0424 #	0.240	0##	0#	NA	0##	
Radiological	Uranium-238		pCi/L	0.206 #	NA	0.0101 #	0.0512 #	0.0260 #	NA	NA	0.141 #	0.115 #	0.489	0.109	0.00288 #	NA	0.00375 #	0##	0.0130 #	NA	0.166 #	NA	0.0144 #	0.204 #	0##	0##	NA	0.000977 #	
Radiological	Percent Uranium-235	%	#	NA	0#	NA	0#	0#	NA	NA	0#	0#	0#	NA	0#	NA	0#	0#	NA	0#	NA	0#	15.5	0#	0#	NA	0#		
Radiological	Uranium-234	ug/L	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	NA	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500		
Radiological	Uranium-235	ug/L	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	NA	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700			
Radiological	Uranium-238	ug/L	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	NA	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200			
Radiological	Total Uranium Isotopes	30	ug/L	<0.200	<0.200	<0.200	<0.200	0	<0.200	NA	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200			
Chemical	Fluoride	4	mg/L	0.146	0.119	0.138	0.084 J	0.13	0.15	NA	0.17	NA	NA	0.025	0.022	0.021 J	0.020 J	0.026 J	<0.10	<0.10	NA	NA	0.007	0.014	<0.1	0.0180 J			
Chemical	Nitrate as N	10	mg/L	8.2	13	8.4	18	11	9.5	NA	6.6	5.5	4.2	3.2	3.3	3	3.1	4.2	3.0	2.1	0.17	0.27	0.055	0.11	0.056	0.17	0.053		
Chemical	Ammonia as N		mg/L	0.0194	0.0151 J	0.101	0.0153 J	NA	NA	NA	NA	0.0075	0.0186	0.0228 J	0.0359 J	0.0248 J	NA	NA	NA	NA	NA	NA	0.0089	0.025	0.026 J	0.0216 J			
Metals	Aluminum		ug/L	<200	NA	NA	NA	NA	NA	NA	<200	<200	NA	NA	NA	NA	NA	NA	NA	NA	NA	<200	<200	NA	NA				
Metals	Antimony	6	ug/L	<20.0	NA	NA	NA	NA	NA	NA	<20.0	<20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<20.0	<20.0	NA	NA			
Metals	Arsenic	10	ug/L	<30.0	NA	NA	NA	NA	NA	NA	<30.0	<30.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<30.0	6.11 J	NA	NA			
Metals	Barium	2000	ug/L	164	NA	NA	NA	NA	NA	NA	62.5	48.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.9	33.9	NA	NA		
Metals	Beryllium	4	ug/L	<5.00	NA	NA	NA	NA	NA	NA	<5.00	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.00	<5.00	NA	NA			
Metals	Cadmium	5	ug/L	<5.00	NA	NA	NA	NA	NA	NA	<5.00	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.00	<5.00	NA	NA			
Metals	Calcium		ug/L	9280	NA	NA	NA	NA	NA	NA	16000	12800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1430	1530	NA	NA		
Metals	Chromium	100	ug/L	<10.0	NA	NA	NA	NA	NA	NA	<10.0	<10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10.0	<10.0	NA	NA			
Metals	Cobalt		ug/L	1.45 J	NA	NA	NA	NA	NA	NA	4.39 J	6.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.00	1.22 J	NA	NA			
Metals	Copper	1300	ug/L	<20.0	NA	NA	NA	NA	NA	NA	<20.0	<20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<20.0	<20.0	NA	NA			
Metals	Iron		ug/L	<100	NA	NA	NA	NA	NA	NA	<100	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	460	116	NA	NA			
Metals	Lead	15	ug/L	<20.0	NA	NA	NA	NA	NA																				

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Well Date Type			W-33 4/16/2020	W-33 10/15/2020	W-33 4/16/2021	W-33 10/14/2021	W-33 4/13/2022	W-33 10/13/2022	W-33 1/6/2023	W-33 4/14/2023	W-35 11/1/2018	W-35 1/22/2019	W-35 10/2/2019	W-35 4/21/2020	W-35 10/13/2020	W-35 4/13/2021	W-35 10/14/2021	W-35 4/11/2022	W-35 10/11/2022	W-35 4/12/2023	W-36 8/30/2018	W-36 11/1/2018	W-36 1/18/2019	W-36 10/2/2019	W-36 4/20/2020	W-36 10/16/2020	W-36 4/13/2021	
Group	Analyte	MCL	note	Units																								
SVOCs	Caprolactam			ug/L	< 8	< 4.0	< 4.0	NA	NA	NA	NA	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 8	< 8	< 8.0	< 8	< 4.0	< 4.0	
SVOCs	Carbazole			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	
SVOCs	Chrysene			ug/L	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	
SVOCs	Di-n-butyl phthalate			ug/L	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	
SVOCs	Di-n-octyl phthalate			ug/L	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	
SVOCs	Dibenz(a,h)anthracene			ug/L	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	
SVOCs	Dibenzofuran			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	
SVOCs	Diethyl phthalate			ug/L	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	
SVOCs	Dimethyl phthalate			ug/L	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	
SVOCs	Fluoranthene			ug/L	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	
SVOCs	Fluorene			ug/L	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	
SVOCs	Hexachlorobenzene	1		ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	
SVOCs	Hexachlorobutadiene			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	
SVOCs	Hexachlorocyclopentadiene	50		ug/L	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	
SVOCs	Hexachloroethane			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	
SVOCs	Isophorone			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	
SVOCs	N-Nitrosodi-n-propylamine			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	
SVOCs	N-Nitrosodiphenylamine			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	
SVOCs	Naphthalene			ug/L	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	
SVOCs	Nitrobenzene			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	
SVOCs	Pentachlorophenol	1		ug/L	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	< 0.96	< 0.95	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	< 0.94	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	< 0.94	
SVOCs	Phenanthrene			ug/L	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	
SVOCs	Phenol			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	
SVOCs	Pyrene			ug/L	< 0.8	< 0.																						

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			Well Date Type	W-36 10/13/2021 N	W-36 4/11/2022 N	W-36 10/11/2022 N	W-36 4/13/2023 N	W-37 8/5/2018 N	W-37 10/18/2018 N	W-37 1/14/2019 N	W-37 4/8/2020 FD	W-37 10/9/2020 N	W-37 4/9/2021 N	W-37 10/11/2021 N	W-37 4/8/2022 N	W-37 10/10/2022 N	W-37 4/11/2023 N	W-38 1/19/2015 N	W-38 4/13/2015 N	W-38 7/13/2015 N	W-38 10/12/2015 N	W-38 1/14/2016 N	W-38 4/19/2016 N	W-38 7/8/2016 N	W-38 10/11/2016 N	W-38 1/17/2017 N			
Group	Analyte	MCL	note	Units																									
Radiological	Alpha particles	15	*	pCi/L	4.51	1.55 #	NA	NA	4.75	0.00882 #	0.230 #	1.75 #	0.361 #	1.84 #	0 ##	1.12 #	0.502 #	0.977 #	NA	NA	0.504 #	1.62 #	1.37 #	1.87 #	0.459 #	2.32	NA	NA	NA
Radiological	Beta particles	50	*	pCi/L	8.06	0.492 #	NA	NA	5.08	1.89 #	0.997 #	0 ##	0.819 #	0 ##	1.25 #	1.68 #	1.58 #	4.76 #	NA	NA	4.52 #	6.86	2.37 #	3.32 #	6.05	3.18	NA	NA	NA
Radiological	Tritium			pCi/L	NA	NA	NA	NA	203 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	157 #	66.9 #	140 #	0 ##	54.9 #	159 #	NA	NA	NA
Radiological	Technetium-99	900		pCi/L	0 ##	0.357 #	0 ##	0.0795 #	NA	NA	0 ##	0 ##	1.37 #	0 ##	0 ##	2.34 #	0.0860 #	0 ##	0 ##	0.530 #	89.8 #	34.4 #	0 ##	0 ##	NA	NA	NA	NA	NA
Radiological	Uranium-233/234			pCi/L	0 ##	0 ##	NA	0.166 #	NA	NA	0.0532 #	0.103 #	0 ##	0 ##	NA	0 ##	0 ##	0.372	NA	0.0874 #	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-235/236			pCi/L	0.132 #	0 ##	NA	0.0233 #	NA	NA	0.0713 #	0 ##	0 ##	NA	0 ##	0.0737 #	0.0121 #	NA	0.0970 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Uranium-238			pCi/L	0 ##	0.0989 #	NA	0 ##	NA	NA	0.238	0.0277 #	0 ##	0.0470 #	NA	0 ##	0 ##	0.0547 #	NA	0 ##	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Percent Uranium-235		%	0 #	0 #	NA	0 #	NA	NA	0 #	0 #	0 #	NA	0 #	0 #	NA	0 #	0 #	NA	0 #	NA	NA	NA	NA	NA	NA	NA		
Radiological	Uranium-234		ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	NA	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	NA	NA	NA	NA		
Radiological	Uranium-235		ug/L	< 0.0700	< 0.0700	< 0.0700	< 0.0700	NA	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	NA	NA	NA	NA			
Radiological	Uranium-238		ug/L	< 0.200	< 0.200	< 0.200	< 0.200	NA	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	NA	NA	NA	NA			
Radiological	Total Uranium Isotopes	30	ug/L	< 0.200	< 0.200	< 0.200	< 0.200	NA	< 0.200	< 0.200	0.0936 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.118 J	< 0.200	< 0.200	NA	NA	NA	NA	NA	NA	NA		
Chemical	Fluoride	4	mg/L	0.014 J	< 0.10	< 0.10	< 0.10	NA	NA	0.02	0.029	0.026	0.138	0.0170 J	0.038 J	< 0.10	< 0.10	< 0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Chemical	Nitrate as N	10	mg/L	0.35	0.54	0.88	0.44	2.6	2.8	3.6	3.5	2	2.1	3.8	1.7	3.3	1.9	1.8	1.4	11	11	9.9	9.1	9.1	8.8	9.2	8.3		
Chemical	Ammonia as N		mg/L	0.0245 J	NA	NA	NA	NA	NA	NA	0.0088	0.01	0.0173	0.0797 J	0.0249 J	0.0162 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Aluminum		ug/L	NA	NA	NA	NA	NA	NA	< 200	< 200	< 200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Antimony	6	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	3.87 J	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Arsenic	10	ug/L	NA	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Barium	2000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	51.6	39.7	39.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Beryllium	4	ug/L	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Cadmium	5	ug/L	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Calcium		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9960	7930	8050	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Chromium	100	ug/L	NA	NA	NA	NA	NA	NA	NA	4.22 J	2.57 J	2.4 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Cobalt		ug/L	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Copper	1300	ug/L	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Iron		ug/L	NA	NA	NA	NA	NA	NA	NA	< 100	< 100	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Lead	15	ug/L	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Magnesium		ug/L	NA	NA	NA	NA	NA	NA	NA	5860	4130	4220	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Manganese		ug/L	NA	NA	NA	NA	NA	NA	NA	< 10.0	< 10.0	< 10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Mercury	2	ug/L	NA	NA	NA	NA	NA	NA	NA	< 200	< 200	< 200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Nickel		ug/L	NA	NA	NA	NA	NA	NA	NA	< 5.00	2.09 J	2.19 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Potassium		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	2230	1840	1940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Selenium	50	ug/L	NA	NA	NA	NA	NA	NA	NA	8.99 J	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Silver		ug/L	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Sodium		ug/L	NA	NA	NA	NA	NA	NA	NA	13300	8480	8490	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Thallium	2	ug/L	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Vanadium		ug/L	NA																									

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			Well Date Type	W-36 10/13/2021	W-36 4/11/2022	W-36 10/11/2022	W-36 4/13/2023	W-37 8/5/2018	W-37 10/18/2018	W-37 1/14/2019	W-37 10/2/2019	W-37 4/8/2020	W-37 4/8/2020	W-37 10/9/2020	W-37 4/9/2021	W-37 10/11/2021	W-37 4/8/2022	W-37 10/10/2022	W-37 4/11/2023	W-38 1/19/2015	W-38 4/13/2015	W-38 7/13/2015	W-38 10/12/2015	W-38 1/14/2016	W-38 4/19/2016	W-38 7/8/2016	W-38 10/11/2016	W-38 1/17/2017
Group	Analyte	MCL	note	Units																								
SVOCs	Caprolactam			ug/L	NA	NA	NA	NA	NA	< 8	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Carbazole			ug/L	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Chrysene			ug/L	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.8	< 0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Di-n-butyl phthalate			ug/L	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4	< 4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Di-n-octyl phthalate			ug/L	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4	< 4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Dibenz(a,h)anthracene			ug/L	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.8	< 0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Dibenzofuran			ug/L	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4	< 4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Diethyl phthalate			ug/L	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4	< 4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Dimethyl phthalate			ug/L	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4	< 4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Fluoranthene			ug/L	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.8	< 0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Fluorene			ug/L	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.8	< 0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Hexachlorobenzene	1		ug/L	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4	< 4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Hexachlorobutadiene			ug/L	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4	< 4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Hexachlorocyclopentadiene	50		ug/L	NA	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 20	< 20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Hexachloroethane			ug/L	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4	< 4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.8	< 0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Isophorone			ug/L	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4	< 4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	N-Nitrosodi-n-propylamine			ug/L	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4	< 4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	N-Nitrosodiphenylamine			ug/L	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4	< 4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Naphthalene			ug/L	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.8	< 0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Nitrobenzene			ug/L	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4	< 4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Pentachlorophenol	1		ug/L	NA	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 20	< 20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Phenanthrene			ug/L	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.8	< 0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Phenol			ug/L	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4	< 4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Pyrene			ug/L	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.8	< 0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
VOCs	Acetone			ug/L	< 20	< 20	< 20	< 20	NA	< 20	< 20	< 20	< 20	< 20	< 20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	Benzene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1	< 1	< 1.0	< 1	< 1	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	Bromodichloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1	< 1	< 1.0	< 1	< 1	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	Bromoform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1	< 1	< 1.0	< 1	< 1	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	Bromomethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2	< 2	< 2.0	< 2	< 2	< 2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	2-Butanone			ug/L	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	Carbon disulfide			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1	< 1	< 1.0	< 1	< 1	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	Carbon tetrachloride	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1	< 1	< 1.0	< 1	< 1	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	Chlorobenzene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1	< 1	< 1.0	< 1	< 1	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	Chloroethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2	< 2	< 2.0	< 2	< 2	< 2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	Chloroform			ug/L	< 1.0	&																						

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Well			W-39	W-39	W-39	W-39	W-39	W-39	W-39	W-39	W-39	W-39	W-39	W-39	W-39	W-39	W-39	W-39	W-39	W-39	W-39	W-39	W-39	W-39	W-40								
Group	Analyte	MCL	note	Units	1/21/2016	4/21/2016	7/12/2016	10/13/2016	1/13/2017	4/7/2017	7/11/2017	10/13/2017	1/15/2018	4/20/2018	7/12/2018	10/25/2018	1/21/2019	10/18/2019	4/24/2020	10/22/2020	4/20/2021	10/18/2021	4/14/2022	10/14/2022	1/6/2023	4/10/2023	11/29/2018	W-40/1/24/2019					
Radiological	Alpha particles	15	*	pCi/L	0.635 #	2.63 #	4.91	8.05	14.1	20.2	14.0	7.81	16.7	11.1	12.2	3.36 #	3.66 #	1.22 #	6.68	1.49 #	1.23 #	0.360 #	0 ##	NA	NA	NA	2.23 #	6.93	3.21				
Radiological	Beta particles	50	*	pCi/L	19.5	35.8	13.3	22.9	18.4	15.7	15.5	18.1	13.2	15.5	13.1	12.1	12.6	8.84	5.51	16.5	8.67	10.4	8.93	18.5	NA	NA	NA	7.90	5.20	3.45 #			
Radiological	Tritium			pCi/L	315 #	0 ##	323 #	0 ##	165 #	0 ##	0 ##	99.2 #	0 ##	174 #	433 #	488 #	174 #	23.7 #	257 #	0 ##	248 #	55.2 #	0 ##	NA	NA	NA	249 #	NA	NA				
Radiological	Technetium-99	900		pCi/L	NA	0 ##	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.35 #	0.726 #	7.39	11.3	11.1	10.4	8.55	11.3	NA	NA	NA	6.80	11.9 #	0 ##			
Radiological	Uranium-233/234			pCi/L	NA	NA	NA	NA	NA	NA	0.445	2.09	NA	0.558 #	NA	NA	NA	0.367	0 ##	0 ##	NA	0.0183 #	0 ##	NA	NA	NA	NA	0.228 #	0.0255 #	0.519			
Radiological	Uranium-235/236			pCi/L	NA	NA	NA	NA	NA	NA	0.334 #	0.263 #	NA	0.715	NA	NA	NA	0.340	0.0196 #	0.0199 #	NA	0.0428 #	0 ##	NA	NA	NA	NA	0.0517 #	0.0314 #	0.301 #			
Radiological	Uranium-238			pCi/L	NA	NA	NA	NA	NA	NA	0.159 #	0.338	NA	0.311 #	NA	NA	NA	0.179 #	0.149 #	0 ##	NA	0.00970 #	0.0841 #	0.00863 #	NA	NA	NA	NA	0.146 #	0.0588 #	0.409		
Radiological	Percent Uranium-235		%	NA	NA	NA	NA	NA	NA	0 #	0 #	NA	26.3	NA	NA	NA	22.8	0 #	0 #	NA	0 #	0 #	0 #	NA	NA	NA	NA	0 #	0 #	0 #			
Radiological	Uranium-234			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0500	< 0.0500	< 0.050	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	NA	NA	NA	< 0.0500	< 0.0500	< 0.0500
Radiological	Uranium-235			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0700	< 0.0700	< 0.070	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	NA	NA	NA	< 0.0700	< 0.0700	< 0.0700
Radiological	Uranium-238			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	NA	NA	NA	< 0.200	< 0.200	0.142 J
Radiological	Total Uranium Isotopes	30		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	NA	NA	NA	< 0.200	< 0.200	0.142 J
Chemical	Fluoride	4		mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.024	0.021	0.038 J	0.0130 J	0.027 J	< 0.10	< 0.10	NA	NA	NA	< 0.10	NA	NA			
Chemical	Nitrate as N	10		mg/L	130	93	84	97	89	110	190	130	100	110	85	120	96	73	72	64	53	57	92	74	NA	NA	NA	61	4.6	2.6			
Chemical	Ammonia as N			mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0218	0.0182	0.0256 J	0.0218 J	0.0327 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Aluminum			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 200	< 200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Antimony	6		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.79 J	5.51 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Arsenic	10		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Barium	2000		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	324	296	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Beryllium	4		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Cadmium	5		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Calcium			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41500	30300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Chromium	100		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 10.0	< 10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Cobalt			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.52 J	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Copper	1300		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Iron			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Lead	15		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Magnesium			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7620	5550	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Manganese			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	43.4	19.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Mercury	2		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 200	< 200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Nickel			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Potassium			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3230	3060	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Selenium	50		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA										

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Well Date Type			W-39 1/21/2016	W-39 4/21/2016	W-39 7/12/2016	W-39 10/13/2016	W-39 1/13/2017	W-39 4/7/2017	W-39 7/11/2017	W-39 10/13/2017	W-39 1/15/2018	W-39 4/20/2018	W-39 7/12/2018	W-39 10/25/2018	W-39 1/21/2019	W-39 10/18/2019	W-39 4/24/2020	W-39 10/22/2020	W-39 4/20/2021	W-39 10/18/2021	W-39 4/14/2022	W-39 10/14/2022	W-39 1/6/2023	W-39 4/10/2023	W-40 11/29/2018	W-40 1/24/2019	
Group	Analyte	MCL	note	Units																							
SVOCs	Caprolactam			ug/L	NA	NA	NA	NA	NA	NA	< 8	NA	NA	NA	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 8	< 8	
SVOCs	Carbazole			ug/L	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4
SVOCs	Chrysene			ug/L	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	
SVOCs	Di-n-butyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4	< 4
SVOCs	Di-n-octyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4	< 4
SVOCs	Dibenz(a,h)anthracene			ug/L	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	
SVOCs	Dibenzofuran			ug/L	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4
SVOCs	Diethyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4	< 4
SVOCs	Dimethyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4	< 4
SVOCs	Fluoranthene			ug/L	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	
SVOCs	Fluorene			ug/L	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	
SVOCs	Hexachlorobenzene	1		ug/L	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4
SVOCs	Hexachlorobutadiene			ug/L	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4
SVOCs	Hexachlorocyclopentadiene	50		ug/L	NA	NA	NA	NA	NA	NA	< 20	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 20	< 20
SVOCs	Hexachloroethane			ug/L	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	
SVOCs	Isophorone			ug/L	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4
SVOCs	N-Nitrosodi-n-propylamine			ug/L	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4
SVOCs	N-Nitrosodiphenylamine			ug/L	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4
SVOCs	Naphthalene			ug/L	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	
SVOCs	Nitrobenzene			ug/L	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4
SVOCs	Pentachlorophenol	1		ug/L	NA	NA	NA	NA	NA	NA	< 20	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 20	< 20
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	NA	< 20	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 20	< 20
SVOCs	Phenanthrene			ug/L	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	
SVOCs	Phenol			ug/L	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4
SVOCs	Pyrene			ug/L	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	
VOCs	Acetone			ug/L	NA	NA	NA	NA	NA	NA	< 100	NA	NA	NA	< 100	< 20	< 100	< 20	< 100	< 20	NA	< 20	< 20	< 20	< 20	< 20	< 20
VOCs	Benzene	5		ug/L	NA	NA	NA	NA	NA	NA	< 5	NA	NA	NA	< 5	< 5	< 1	< 5.0	< 5.0	< 5.0	NA	NA	NA	NA	NA	< 5	< 1
VOCs	Bromodichloromethane			ug/L	NA	NA	NA	NA	NA	NA	< 5	NA	NA	NA	< 5	< 5	< 1	< 5.0	< 5.0	< 5.0	NA	NA	NA	NA	NA	< 5	< 1
VOCs	Bromoform			ug/L	NA	NA	NA	NA	NA	NA	< 5	NA	NA	NA	< 5	< 5	<										

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-40 10/15/2019 N	W-40 4/16/2020 N	W-40 10/15/2020 N	W-40 4/12/2021 N	W-40 10/12/2021 N	W-40 4/11/2022 N	W-40 10/11/2022 N	W-41R 4/18/2023 N	W-41R 1/12/2015 N	W-41R 4/9/2015 N	W-41R 7/10/2015 N	W-41R 10/9/2015 FD	W-41R 1/20/2016 N	W-41R 4/18/2016 N	W-41R 7/5/2016 N	W-41R 10/6/2016 N	W-41R 1/10/2017 N	W-41R 4/3/2017 N	W-41R 7/6/2017 N	W-41R 10/12/2017 N	W-41R 4/10/2018 N	W-41R 7/10/2018 N	W-41R 10/17/2018 N							
Group	Analyte	MCL	note	Units																												
Radiological	Alpha particles	15	*	pCi/L	0.796 #	1.22 #	0.200 #	0 ##	0 ##	0.693 #	NA	NA	4.02 #	0 ##	6.77	1.70 #	3.54 #	0 ##	4.02 #	4.01 #	16.4	12.6	7.57	6.07	12.6	9.26	2.42 #	12.4	0 ##			
Radiological	Beta particles	50	*	pCi/L	3.44 #	4.19	4.82	0.664 #	1.86 #	3.06 #	NA	NA	22.0	17.6	22.2	13.0	10.5	19.7	25.7	24.6	27.1	24.1	25.7	20.0	23.5	19.7	16.4	14.2	12.1			
Radiological	Tritium			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	308 #	0 ##	179 #	0 ##	0 ##	55.5 #	122 #	0 ##	85.3 #	2.61 #	473 #	0 ##		
Radiological	Technetium-99	900		pCi/L	0 ##	0 ##	0.131 #	0 ##	0 ##	0.0523 #	0 ##	0 ##	0 ##	33.9 #	62.2 #	13.7 #	86.5 #	6.70 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-233/234			pCi/L	0.0131 #	0.154 #	NA	0 ##	0 ##	0.308 #	NA	0.244 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.450	NA	NA	NA	NA	NA	NA		
Radiological	Uranium-235/236			pCi/L	0.0454 #	0.0534 #	NA	0.0512 #	0.105 #	0 #	NA	0.0970 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0853 #	NA	NA	NA	NA	NA	NA		
Radiological	Uranium-238			pCi/L	0.129 #	0.104 #	NA	0.0293 #	0 ##	0 ##	NA	0.140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.105 #	NA	NA	NA	NA	NA	NA		
Radiological	Percent Uranium-235			%	0 #	0 #	NA	0 #	0 #	0 #	NA	0 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Uranium-234			ug/L	< 0.050	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0500		
Radiological	Uranium-235			ug/L	< 0.070	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0700		
Radiological	Uranium-238			ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.103 J	0.155 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.200		
Radiological	Total Uranium Isotopes	30		ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.103 J	0.0778 J	0.155 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.200			
Chemical	Fluoride	4		mg/L	0.166	0.139	0.145	0.129	0.141	0.20	0.19	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Chemical	Nitrate as N	10		mg/L	4.3	2.4	3	1.3	4.1	2.5	3.4	0.63	56	51	54	34	33	61	80	66	75	64	62	63	NA	65	76	67	55			
Chemical	Ammonia as N			mg/L	0.0203	0.0158	0.264	0.0591 J	0.342	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Aluminum			ug/L	< 200	560	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Antimony	6		ug/L	8.02 J	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Arsenic	10		ug/L	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Barium	2000		ug/L	16.8	14.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Beryllium	4		ug/L	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Cadmium	5		ug/L	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Calcium			ug/L	16700	9490	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Chromium	100		ug/L	< 10.0	< 10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Cobalt			ug/L	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Copper	1300		ug/L	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Iron			ug/L	< 100	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Lead	15		ug/L	5.76 J	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Magnesium			ug/L	2630	1730	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Manganese			ug/L	< 10.0	< 10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Mercury	2		ug/L	< 0.200	0.077 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Nickel			ug/L	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Potassium			ug/L	2820	2260	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Selenium	50		ug/L	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Silver			ug/L	1.17 J	< 5.00	NA																									

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Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-40 10/15/2019 N	W-40 4/16/2020 N	W-40 10/15/2020 N	W-40 4/12/2021 N	W-40 10/12/2021 N	W-40 4/11/2022 N	W-40 10/11/2022 N	W-41R 4/18/2023 N	W-41R 1/12/2015 N	W-41R 4/9/2015 N	W-41R 7/10/2015 N	W-41R 10/9/2015 FD	W-41R 10/9/2015 N	W-41R 1/20/2016 N	W-41R 4/18/2016 N	W-41R 7/5/2016 N	W-41R 10/6/2016 N	W-41R 1/10/2017 N	W-41R 4/3/2017 N	W-41R 7/6/2017 N	W-41R 10/12/2017 N	W-41R 1/9/2018 N	W-41R 4/10/2018 N	W-41R 7/10/2018 N	W-41R 10/17/2018 N
Group	Analyte	MCL	note	Units																								
SVOCs	Caprolactam			ug/L	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	< 26	< 25	< 25	NA	< 25	47	< 30	< 8	< 8	68	< 8	NA	< 8	< 8	< 8	< 8	
SVOCs	Carbazole			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 6	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	
SVOCs	Chrysene			ug/L	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 6	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	
SVOCs	Di-n-butyl phthalate			ug/L	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 6	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	
SVOCs	Di-n-octyl phthalate			ug/L	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 6	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	
SVOCs	Dibenz(a,h)anthracene			ug/L	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 6	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	
SVOCs	Dibenzofuran			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 6	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	
SVOCs	Diethyl phthalate			ug/L	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 6	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	
SVOCs	Dimethyl phthalate			ug/L	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 6	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	
SVOCs	Fluoranthene			ug/L	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 6	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	
SVOCs	Fluorene			ug/L	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 6	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	
SVOCs	Hexachlorobenzene	1		ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 6	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	
SVOCs	Hexachlorobutadiene			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 6	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	
SVOCs	Hexachlorocyclopentadiene	50		ug/L	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	< 26	< 25	< 25	NA	< 25	< 25	< 30	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	
SVOCs	Hexachloroethane			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 6	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 6	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	
SVOCs	Isophorone			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 6	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	
SVOCs	N-Nitrosodi-n-propylamine			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 6	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	
SVOCs	N-Nitrosodiphenylamine			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 6	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	
SVOCs	Naphthalene			ug/L	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 6	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	
SVOCs	Nitrobenzene			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 6	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	
SVOCs	Pentachlorophenol	1		ug/L	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	< 26	< 25	< 25	NA	< 25	< 25	< 30	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	< 0.97	< 0.94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Phenanthrene			ug/L	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 6	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	
SVOCs	Phenol			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 5.1	< 5	< 5	NA	< 5	< 5	< 6	< 4	< 4	&lt							

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-41R 10/17/2018	W-41R 1/23/2019	W-41R 10/14/2019	W-41R 4/17/2020	W-41R 10/16/2020	W-41R 4/16/2021	W-41R 10/21/2021	W-41R 4/15/2022	W-41R 10/17/2022	W-41R 4/14/2023	W-42 8/30/2018	W-42 11/4/2018	W-42 1/25/2019	W-42 10/22/2019	W-42 4/23/2020	W-42 4/23/2020	W-42 10/21/2020	W-42 4/19/2021	W-42 10/20/2021	W-42 4/18/2022	W-42 10/14/2022	W-42 4/14/2023	W-43 1/20/2015	W-43 4/14/2015	W-43 4/17/2015
Group	Analyte	MCL	note	Units																							
SVOCs	Caprolactam			ug/L	NA	< 8	< 8.0	< 8	< 4.0	< 4.0	< 4.0	< 4.0	NA	< 8	< 8	< 8.0	< 8	< 8	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA
SVOCs	Carbazole			ug/L	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	< 0.80	NA	< 4	< 4	< 4.0	< 4	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA
SVOCs	Chrysene			ug/L	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	< 0.16	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA
SVOCs	Di-n-butyl phthalate			ug/L	NA	< 4	< 4.0	< 4	< 4.0	< 4.0	< 4.0	< 4.0	NA	< 4	< 4	< 4.0	< 4	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA
SVOCs	Di-n-octyl phthalate			ug/L	NA	< 4	< 4.0	< 4	< 4.0	< 4.0	< 4.0	< 4.0	NA	< 4	< 4	< 4.0	< 4	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA
SVOCs	Dibenz(a,h)anthracene			ug/L	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	< 0.16	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA
SVOCs	Dibenzofuran			ug/L	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	< 0.80	NA	< 4	< 4	< 4.0	< 4	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA
SVOCs	Diethyl phthalate			ug/L	NA	< 4	< 4.0	< 4	< 4.0	< 4.0	< 4.0	< 4.0	NA	< 4	< 4	< 4.0	< 4	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA
SVOCs	Dimethyl phthalate			ug/L	NA	< 4	< 4.0	< 4	< 4.0	< 4.0	< 4.0	< 4.0	NA	< 4	< 4	< 4.0	< 4	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA
SVOCs	Fluoranthene			ug/L	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	< 0.16	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA
SVOCs	Fluorene			ug/L	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	< 0.16	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA
SVOCs	Hexachlorobenzene	1		ug/L	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	< 0.80	NA	< 4	< 4	< 4.0	< 4	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA
SVOCs	Hexachlorobutadiene			ug/L	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	< 0.80	NA	< 4	< 4	< 4.0	< 4	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA
SVOCs	Hexachlorocyclopentadiene	50		ug/L	NA	< 20	< 20	< 20	< 4.0	< 4.0	< 4.0	< 4.0	NA	< 20	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA
SVOCs	Hexachloroethane			ug/L	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	< 0.80	NA	< 4	< 4	< 4.0	< 4	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	< 0.16	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA
SVOCs	Isophorone			ug/L	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	< 0.80	NA	< 4	< 4	< 4.0	< 4	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA
SVOCs	N-Nitrosodi-n-propylamine			ug/L	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	< 0.80	NA	< 4	< 4	< 4.0	< 4	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA
SVOCs	N-Nitrosodiphenylamine			ug/L	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	< 0.80	NA	< 4	< 4	< 4.0	< 4	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA
SVOCs	Naphthalene			ug/L	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	< 0.16	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA
SVOCs	Nitrobenzene			ug/L	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	< 0.80	NA	< 4	< 4	< 4.0	< 4	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA
SVOCs	Pentachlorophenol	1		ug/L	NA	< 20	< 20	< 20	< 4.0	< 4.0	< 4.0	< 4.0	NA	< 20	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	< 0.95	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	< 0.95	NA	NA	NA	NA	NA	NA	NA
SVOCs	Phenanthrene			ug/L	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	< 0.16	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA
SVOCs	Phenol			ug/L	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	< 0.80	NA	< 4	< 4	< 4.0	< 4	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA
SVOCs	Pyrene			ug/L	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	< 0.16	NA	< 0.8	< 0.												

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-43 7/15/2015	W-43 10/13/2015	W-43 1/21/2016	W-43 4/21/2016	W-43 7/12/2016	W-43 10/13/2016	W-43 1/13/2017	W-43 4/7/2017	W-43 7/11/2017	W-43 10/13/2017	W-43 1/15/2018	W-43 4/20/2018	W-43 7/12/2018	W-43 10/29/2018	W-43 11/28/2018	W-43 11/28/2018	W-43 10/29/2018	W-43 11/28/2018	W-43 1/21/2019	W-43 10/18/2019	W-43 4/23/2020	W-43 10/22/2020	W-43 4/20/2021	W-43 10/18/2021	W-43 4/14/2022	W-43 10/14/2022
Group	Analyte	MCL note	Units																										
Radiological	Alpha particles	15 *	pCi/L	0.462 #	0 ##	0.0304 #	2.53 #	0.949 #	6.93	12.5	19.5	11.6	6.58	14.2	7.06	8.23	NA	0 ##	0 ##	1.69 #	0.252 #	0.159 #	1.41 #	1.38 #	0 ##	0 ##	0 ##	NA	
Radiological	Beta particles	50 *	pCi/L	7.50	4.78	6.41	2.37 #	2.65 #	11.1	9.60	13.5	5.70	12.1	12.4	7.17	11.3	NA	4.62 #	4.00 #	1.82 #	3.36	3.16 #	2.36 #	5.17	0.0965 #	0 ##	4.64	4.77	
Radiological	Tritium		pCi/L	0 ##	0 ##	371 #	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	21.1 #	
Radiological	Technetium-99	900	pCi/L	0 ##	25.1 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27.9 #	24.7 #	0 ##	0 ##	1.60 #	1.40 #	1.50 #	39.9	0.422 #	3.69
Radiological	Uranium-233/234		pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	0.553	NA	NA	NA	NA	NA	NA	NA	0.170 #	0.284 #	0.727	0 ##	0 ##	0 ##	NA	0 ##	0 ##	NA
Radiological	Uranium-235/236		pCi/L	NA	NA	NA	NA	NA	NA	NA	0.138 #	NA	NA	NA	NA	NA	NA	NA	0 ##	0.139 #	0.443	0.0698 #	0 ##	0 ##	0 ##	0 ##	0 ##	0.0191 #	NA
Radiological	Uranium-238		pCi/L	NA	NA	NA	NA	NA	NA	NA	0.885	NA	NA	NA	NA	NA	NA	NA	0.171 #	0.0830 #	0.246	0.0475 #	0.0525 #	NA	0.00138 #	0.0793 #	0 ##	NA	
Radiological	Percent Uranium-235	%	NA	NA	NA	NA	NA	NA	NA	0 #	NA	NA	NA	NA	NA	NA	NA	NA	0 #	21.8	0 #	0 #	NA	0 #	0 #	0 #	NA		
Radiological	Uranium-234	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500		
Radiological	Uranium-235	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700		
Radiological	Uranium-238	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200		
Radiological	Total Uranium Isotopes	30	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200		
Chemical	Fluoride	4	mg/L	74	6.7	6	5.5	5.4	5.3	5.7	4.3	4.8	4.3	4.2	6.6	6.6	7.1	7.2	9	6.3	7.1	5.7	7.4	7.4	6.9	7.6			
Chemical	Nitrate as N	10	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0198	0.0353	0.0201 J	0.0197 J	0.0248 J	NA	NA	NA	NA
Metals	Aluminum		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 200	< 200	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Antimony	6	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.76 J	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Arsenic	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Barium	2000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	159	142	NA	NA	NA	NA	NA	NA
Metals	Beryllium	4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Cadmium	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Calcium		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8770	7750	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Chromium	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.28 J	2.19 J	NA	NA	NA	NA	NA	NA	NA
Metals	Cobalt		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Copper	1300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Iron		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100	< 100	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Lead	15	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Magnesium		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3590	3160	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Manganese		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.24 J	5.74 J	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Mercury	2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 200	< 200	NA	NA	NA	NA					

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-43 7/15/2015 N	W-43 10/13/2015 N	W-43 1/21/2016 N	W-43 4/21/2016 N	W-43 7/12/2016 N	W-43 10/13/2016 N	W-43 1/13/2017 N	W-43 4/7/2017 N	W-43 7/11/2017 N	W-43 10/13/2017 N	W-43 1/15/2018 N	W-43 4/20/2018 N	W-43 7/12/2018 N	W-43 10/29/2018 FD	W-43 10/29/2018 N	W-43 11/28/2018 N	W-43 11/28/2018 FD	W-43 1/21/2019 N	W-43 10/18/2019 N	W-43 4/23/2020 N	W-43 10/22/2020 N	W-43 4/20/2021 N	W-43 10/18/2021 N	W-43 4/14/2022 N	W-43 10/14/2022 N	
Group	Analyte	MCL	note	Units																								
SVOCs	Caprolactam			ug/L	NA	NA	NA	NA	NA	NA	NA	< 8	NA	NA	NA	< 8	< 8	< 8	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	
SVOCs	Carbazole			ug/L	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	
SVOCs	Chrysene			ug/L	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	
SVOCs	Di-n-butyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	
SVOCs	Di-n-octyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	
SVOCs	Dibenz(a,h)anthracene			ug/L	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	
SVOCs	Dibenzofuran			ug/L	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	
SVOCs	Diethyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	
SVOCs	Dimethyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	
SVOCs	Fluoranthene			ug/L	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	
SVOCs	Fluorene			ug/L	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	
SVOCs	Hexachlorobenzene	1		ug/L	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	
SVOCs	Hexachlorobutadiene			ug/L	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	
SVOCs	Hexachlorocyclopentadiene	50		ug/L	NA	NA	NA	NA	NA	NA	NA	< 20	NA	NA	NA	< 20	< 20	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	
SVOCs	Hexachloroethane			ug/L	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	
SVOCs	Isophorone			ug/L	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	
SVOCs	N-Nitrosodi-n-propylamine			ug/L	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	
SVOCs	N-Nitrosodiphenylamine			ug/L	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	
SVOCs	Naphthalene			ug/L	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	
SVOCs	Nitrobenzene			ug/L	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	
SVOCs	Pentachlorophenol	1		ug/L	NA	NA	NA	NA	NA	NA	NA	< 20	NA	NA	NA	< 20	< 20	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	
SVOCs	Phenanthrene			ug/L	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	
SVOCs	Phenol			ug/L	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	< 4	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	
SVOCs	Pyrene			ug/L	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	
VOCs	Acetone			ug/L	NA	NA	NA	NA	NA	NA	NA	< 20	NA	NA	NA	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	
VOCs	Benzene	5		ug/L	NA	NA	NA	NA	NA	NA	NA	< 1	NA	NA	NA	< 5	< 5	< 5	< 5	< 1								

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-43 4/14/2023	W-44 1/20/2015	W-44 4/14/2015	W-44 4/16/2015	W-44 7/10/2015	W-44 10/9/2015	W-44 1/18/2016	W-44 4/18/2016	W-44 7/5/2016	W-44 7/18/2016	W-44 10/13/2016	W-44 1/11/2017	W-44 4/5/2017	W-44 7/11/2017	W-44 10/12/2017	W-44 10/12/2017	W-44 1/12/2018	W-44 4/17/2018	W-44 7/12/2018	W-44 8/30/2018	W-44 10/17/2018	W-44 1/23/2019	W-44 10/14/2019	W-44 4/16/2020	W-44 10/16/2020			
Group	Analyte	MCL	note	Units																											
Radiological	Alpha particles	15	*	pCi/L	0.0324 #	0.659 #	4.44	NA	1.40 #	4.44	1.10 #	3.14 #	NA	18.2	10.4	11.4	9.55	8.36	19.4	25.2	9.51	8.48	8.15	NA	2.49 #	0.347 #	3.47 #	0.183 #	2.72		
Radiological	Beta particles	50	*	pCi/L	1.16 #	2.47 #	4.15 #	NA	0 ##	2.63 #	1.99 #	3.45 #	NA	13.2	9.65	4.16 #	14.3	3.87 #	15.9	18.0	8.88	6.78	10.6	NA	1.83 #	4.49	0.283 #	13.3	2.92 #		
Radiological	Tritium			pCi/L	153 #	0 ##	29.9 #	NA	0 ##	0 ##	153 #	0 ##	NA	153 #	0 ##	0 ##	0 ##	160 #	0 ##	270 #	75.2 #	0 ##	98.8 #	NA	104 #	0 ##	44.8 #	0 ##			
Radiological	Technetium-99	900		pCi/L	2.86 #	88.3 #	12.4 #	NA	0 ##	125 #	36.6 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0 ##	0 ##	0 ##	0 ##			
Radiological	Uranium-233/234			pCi/L	0.187 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.341 #	0.0335 #	0.0364 #	NA			
Radiological	Uranium-235/236			pCi/L	0.0818 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.211 #	0.221 #	NA	NA	NA	NA	NA	0.300 #	0.0360 #	0.0426 #	NA			
Radiological	Uranium-238			pCi/L	0 ##	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.151 #	0.717	NA	NA	NA	NA	NA	0.234 #	0.0107 #	0.0786 #	NA			
Radiological	Percent Uranium-235		%	ug/L	0 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0 #	0 #	NA	NA	NA	NA	NA	0 #	0 #	0 #	NA			
Radiological	Uranium-234			ug/L	<0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0500	<0.0500	<0.0500	<0.0500				
Radiological	Uranium-235			ug/L	<0.0700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0700	<0.0700	<0.0700	<0.0700				
Radiological	Uranium-238			ug/L	<0.200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.200	<0.200	<0.200	<0.200				
Radiological	Total Uranium Isotopes	30		ug/L	<0.200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.023	<0.1	0.013 J	NA			
Chemical	Fluoride	4	mg/L	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0186	0.0134	0.0227 J	NA									
Chemical	Nitrate as N	10	mg/L	8.4	4.5	NA	3.7	2.5	3.9	2	1.6	NA	3	3.3	2.9	2.7	2.8	2.5	2.4	3.2	3.3	NA	3.5	2.9	2.4	1.7	1.9				
Chemical	Ammonia as N		mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA										
Metals	Aluminum		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<200	<200	NA											
Metals	Antimony	6	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<20.0	<20.0	NA											
Metals	Arsenic	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<30.0	<30.0	NA											
Metals	Barium	2000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	151	142	NA										
Metals	Beryllium	4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.00	<5.00	NA											
Metals	Cadmium	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.00	<5.00	NA											
Metals	Calcium		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Metals	Chromium	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.15 J	2.82 J	NA									
Metals	Cobalt		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.00	1.44 J	NA											
Metals	Copper	1300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<20.0	<20.0	NA											
Metals	Iron		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	75.8 J	<100	NA									
Metals	Lead	15	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.46 J	<20.0	NA									
Metals	Magnesium		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3060	2450	NA							
Metals	Manganese		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.67 J	7.53 J	NA							
Metals	Mercury	2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.200	0.078 J	NA									
Metals	Nickel		ug/L	NA	NA	NA	NA	NA																							

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Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-43 4/14/2023	W-44 1/20/2015	W-44 4/14/2015	W-44 4/16/2015	W-44 7/10/2015	W-44 10/9/2015	W-44 1/18/2016	W-44 4/18/2016	W-44 7/5/2016	W-44 7/18/2016	W-44 10/13/2016	W-44 1/11/2017	W-44 4/5/2017	W-44 7/11/2017	W-44 10/12/2017	W-44 10/12/2017 FD	W-44 1/12/2018	W-44 4/17/2018	W-44 7/12/2018	W-44 8/30/2018	W-44 10/17/2018	W-44 1/23/2019	W-44 10/14/2019	W-44 4/16/2020	W-44 10/16/2020
Group	Analyte	MCL	note	Units																								
SVOCs	Caprolactam			ug/L	NA	NA	NA	NA	NA	< 8	< 8	NA	NA	NA	< 8	< 8	< 8.0	< 8	< 4.0									
SVOCs	Carbazole			ug/L	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80									
SVOCs	Chrysene			ug/L	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16									
SVOCs	Di-n-butyl phthalate			ug/L	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0									
SVOCs	Di-n-octyl phthalate			ug/L	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0									
SVOCs	Dibenz(a,h)anthracene			ug/L	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16									
SVOCs	Dibenzofuran			ug/L	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80									
SVOCs	Diethyl phthalate			ug/L	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0									
SVOCs	Dimethyl phthalate			ug/L	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0									
SVOCs	Fluoranthene			ug/L	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16									
SVOCs	Fluorene			ug/L	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16									
SVOCs	Hexachlorobenzene	1		ug/L	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80									
SVOCs	Hexachlorobutadiene			ug/L	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80									
SVOCs	Hexachlorocyclopentadiene	50		ug/L	NA	NA	NA	NA	NA	< 20	< 20	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0									
SVOCs	Hexachloroethane			ug/L	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80									
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16									
SVOCs	Isophorone			ug/L	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80									
SVOCs	N-Nitrosodi-n-propylamine			ug/L	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80									
SVOCs	N-Nitrosodiphenylamine			ug/L	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80									
SVOCs	Naphthalene			ug/L	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16									
SVOCs	Nitrobenzene			ug/L	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80									
SVOCs	Pentachlorophenol	1		ug/L	NA	NA	NA	NA	NA	< 20	< 20	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0									
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0									
SVOCs	Phenanthrene			ug/L	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16									
SVOCs	Phenol			ug/L	NA	NA	NA	NA	NA	< 4	< 4	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80									
SVOCs	Pyrene			ug/L	NA	NA	NA	NA	NA	< 0.8	< 0.8	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16									
VOCs	Acetone				< 20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20	< 20	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0			
VOCs	Benzene	5		ug/L	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1	< 1	NA	NA	NA	< 1	< 1	< 1.0	< 1	< 1.0			
VOCs	Bromodichloromethane			ug/L	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1	< 1	NA	NA	NA	< 1	< 1	< 1.0	< 1	< 1.0			
VOCs	Bromoform			ug/L	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1	< 1	NA	NA	NA	< 1	< 1	< 1.0	< 1	< 1.0			
VOCs	Bromomethane			ug/L	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2	< 2	NA	NA	NA	< 2	< 2</td						

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-44 4/19/2021	W-44 10/18/2021	W-44 4/15/2022	W-44 10/17/2022	W-44 4/14/2023	W-45 8/5/2018	W-45 11/4/2018	W-45 1/18/2019	W-45 10/2/2019	W-45 4/15/2020	W-45 10/14/2020	W-45 4/13/2021	W-45 10/14/2021	W-45 4/12/2022	W-45 10/12/2022	W-45 4/12/2023	W-45 4/12/2023 FD	W-46 11/4/2018	W-46 1/22/2019	W-46 10/21/2019	W-46 4/22/2020	W-46 10/21/2020	W-46 4/20/2021	W-46 10/21/2021	W-46 4/15/2022	
Group	Analyte	MCL	note	Units																								
SVOCs	Caprolactam			ug/L	< 4.0	NA	NA	NA	NA	NA	< 8	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	< 8	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA
SVOCs	Carbazole			ug/L	< 0.80	NA	NA	NA	NA	NA	< 4	6.6	< 4.0	< 4	5.4	4.5	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	Chrysene			ug/L	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA
SVOCs	Di-n-butyl phthalate			ug/L	< 4.0	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA
SVOCs	Di-n-octyl phthalate			ug/L	< 4.0	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA
SVOCs	Dibenz(a,h)anthracene			ug/L	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA
SVOCs	Dibenzofuran			ug/L	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	1.4	0.81	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	Diethyl phthalate			ug/L	< 4.0	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA
SVOCs	Dimethyl phthalate			ug/L	< 4.0	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA
SVOCs	Fluoranthene			ug/L	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA
SVOCs	Fluorene			ug/L	< 0.16	NA	NA	NA	NA	NA	< 0.8	2.4	1.7	1	2.2	1.1	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA
SVOCs	Hexachlorobenzene	1		ug/L	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	Hexachlorobutadiene			ug/L	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	Hexachlorocyclopentadiene	50		ug/L	< 4.0	NA	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA
SVOCs	Hexachloroethane			ug/L	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA
SVOCs	Isophorone			ug/L	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	N-Nitrosodi-n-propylamine			ug/L	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	N-Nitrosodiphenylamine			ug/L	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	Naphthalene			ug/L	< 0.16	NA	NA	NA	NA	NA	0.9	18	15	13	16	8.4	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA
SVOCs	Nitrobenzene			ug/L	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	Pentachlorophenol	1		ug/L	< 4.0	NA	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA
SVOCs	Pentachlorophenol (SIM)	1		ug/L	< 0.95	NA	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.98	NA	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 0.94	< 0.94	NA	NA
SVOCs	Phenanthrene			ug/L	< 0.16	NA	NA	NA	NA	NA	< 0.8	1.4	1.1	< 0.8	1.4	0.70	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA
SVOCs	Phenol			ug/L	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	Pyrene			ug/L	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0						

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date	W-46 10/14/2022	W-46 4/14/2023	W-47 1/21/2015	W-47 4/16/2015	W-47 7/16/2015	W-47 10/13/2015	W-47 1/20/2016	W-47 4/21/2016	W-47 7/12/2016	W-47 10/18/2016	W-47 1/13/2017	W-47 4/7/2017	W-47 7/12/2017	W-47 10/13/2017	W-47 1/15/2018	W-47 4/22/2018	W-47 7/15/2018	W-47 8/30/2018	W-47 10/25/2018	W-47 1/24/2019	W-47 10/17/2019	W-47 4/20/2020	W-47 10/16/2020	W-47 4/15/2021	W-47 10/19/2021	
Group	Analyte	MCL	note	Units																									
Radiological	Alpha particles	15	*	pCi/L	NA	NA	0.0655 #	1.70 #	1.75 #	2.46 #	0.604 #	1.93 #	3.29 #	1.89 #	5.49	2.64 #	1.62 #	1.53 #	2.97 #	4.24	7.10	NA	2.23 #	5.21	1.60 #	1.26 #	1.41 #	2.33 #	0 ##
Radiological	Beta particles	50	*	pCi/L	NA	NA	83.1	71.9	79.4	62.6	71.2	51.4	39.1	38.1	64.5	66.3	61.5	73.5	68.7	56.3	76.8	NA	105	91.2	61.6	56.7	51.5	52.0	51.3
Radiological	Tritium			pCi/L	NA	NA	40.5 #	0 ##	135 #	41.9 #	281 #	0 ##	128 #	0 ##	95.8 #	168 #	0 ##	3.27 #	149 #	163 #	71.8 #	NA	47.7 #	0 ##	137 #	273 #	0 ##	0 ##	193 #
Radiological	Technetium-99	900		pCi/L	53.0	54.4	153 #	116 #	28.5 #	177 #	118 #	0 ##	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00116 #	
Radiological	Uranium-233/234			pCi/L	NA	0.0169 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0453 #	
Radiological	Uranium-235/236			pCi/L	NA	0.306	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0802 #	
Radiological	Uranium-238			pCi/L	NA	< 0.200	< 0.200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0 ##	
Radiological	Percent Uranium-235		%	NA	0 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0 #	0 #	0 #	0 #		
Radiological	Uranium-234		ug/L	< 0.0500	< 0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	
Radiological	Uranium-235		ug/L	< 0.0700	< 0.0700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	
Radiological	Uranium-238		ug/L	< 0.200	< 0.200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0797 J	< 0.200	< 0.200	0.102 J	< 0.200	< 0.200	0.0704 J	< 0.200	
Radiological	Total Uranium Isotopes	30	ug/L	< 0.200	< 0.200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0797 J	< 0.200	< 0.200	0.102 J	< 0.200	< 0.200	0.0704 J	< 0.200	
Chemical	Fluoride	4	mg/L	< 0.10	< 0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.45	3.92
Chemical	Nitrate as N	10	mg/L	8.8	8.2	34	31	36	37	40	43	44	41	46	52	55	49	55	62	64	NA	84	71	42	44	40	33	33	33
Chemical	Ammonia as N		mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16.5	16.8
Metals	Aluminum		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	551
Metals	Antimony	6	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.33 J
Metals	Arsenic	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 30.0
Metals	Barium	2000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	260
Metals	Beryllium	4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.32 J
Metals	Cadmium	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00
Metals	Calcium		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22300
Metals	Chromium	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.24 J
Metals	Cobalt		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.85
Metals	Copper	1300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0
Metals	Iron		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100
Metals	Lead	15	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0
Metals	Magnesium		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9220
Metals	Selenium	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.52 J
Metals	Silver		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.53 J
Metals	Sodium		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	53900
Metals	Thallium	2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0
Metals	Vanadium		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.29 J
Metals	Zinc		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.1 J
SVOCs	1,1'-Biphenyl		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	NA	< 40	< 4	< 4	< 4	< 4	< 40	< 40	< 40	< 0.80
SVOCs	2,4,5-Trichlorophenol		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	NA	< 40	< 4	< 4	< 4	< 4	< 40	< 40	< 40	< 0.80
SVOCs	2,4,6-Trichlorophenol		ug/L	NA	NA	NA																							

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			Well Date Type	W-46 10/14/2022	W-46 4/14/2023	W-47 1/21/2015	W-47 4/16/2015	W-47 7/16/2015	W-47 10/13/2015	W-47 1/20/2016	W-47 4/21/2016	W-47 7/12/2016	W-47 10/18/2016	W-47 1/13/2017	W-47 4/7/2017	W-47 7/12/2017	W-47 10/13/2017	W-47 1/15/2018	W-47 4/22/2018	W-47 7/15/2018	W-47 8/30/2018	W-47 10/25/2018	W-47 1/24/2019	W-47 10/17/2019	W-47 4/20/2020	W-47 10/16/2020	W-47 4/15/2021	W-47 10/19/2021
Group	Analyte	MCL	note	Units																								
SVOCs	Caprolactam			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 8	NA	NA	NA	NA	< 80	< 8	< 8.0	< 8	< 4.0	< 4.0	NA		
SVOCs	Carbazole			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	NA	< 40	< 4	< 4.0	< 4	< 0.80	< 0.80	NA		
SVOCs	Chrysene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	NA	< 8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA		
SVOCs	Di-n-butyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	NA	< 40	< 4	< 4.0	< 4	< 4.0	< 4.0	NA		
SVOCs	Di-n-octyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	NA	< 40	< 4	< 4.0	< 4	< 4.0	< 4.0	NA		
SVOCs	Dibenz(a,h)anthracene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	NA	< 8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA		
SVOCs	Dibenzofuran			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	NA	< 40	< 4	< 4.0	< 4	< 0.80	< 0.80	NA		
SVOCs	Diethyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	NA	< 40	< 4	< 4.0	< 4	< 4.0	< 4.0	NA		
SVOCs	Dimethyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	NA	< 40	< 4	< 4.0	< 4	< 4.0	< 4.0	NA		
SVOCs	Fluoranthene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	NA	< 8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA		
SVOCs	Fluorene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	NA	< 8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA		
SVOCs	Hexachlorobenzene	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	NA	< 40	< 4	< 4.0	< 4	< 0.80	< 0.80	NA		
SVOCs	Hexachlorobutadiene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	NA	< 40	< 4	< 4.0	< 4	< 0.80	< 0.80	NA		
SVOCs	Hexachlorocyclopentadiene	50		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20	NA	NA	NA	NA	< 200	< 20	< 20	< 20	< 4.0	< 4.0	NA		
SVOCs	Hexachloroethane			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	NA	< 40	< 4	< 4.0	< 4	< 0.80	< 0.80	NA		
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	NA	< 8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA		
SVOCs	Isophorone			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	NA	< 40	< 4	< 4.0	< 4	< 0.80	< 0.80	NA		
SVOCs	N-Nitrosodi-n-propylamine			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	NA	< 40	< 4	< 4.0	< 4	< 0.80	< 0.80	NA		
SVOCs	N-Nitrosodiphenylamine			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	NA	< 40	< 4	< 4.0	< 4	< 0.80	< 0.80	NA		
SVOCs	Naphthalene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	NA	< 8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA		
SVOCs	Nitrobenzene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	NA	< 40	< 4	< 4.0	< 4	< 0.80	< 0.80	NA		
SVOCs	Pentachlorophenol	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20	NA	NA	NA	NA	< 200	< 20	< 20	< 20	< 4.0	< 4.0	NA		
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20	NA	NA	NA	NA	< 200	< 20	< 20	< 20	< 4.0	< 4.0	NA		
SVOCs	Phenanthrene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	NA	< 8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA		
SVOCs	Phenol			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4	NA	NA	NA	NA	< 40	< 4	< 4.0	< 4	< 0.80	< 0.80	NA		
SVOCs	Pyrene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	NA	NA	NA	< 8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA		
VOCs	Acetone			ug/L	< 20	< 20	NA	NA	NA	NA	NA	NA	NA	NA	< 20	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 20	< 20	NA		
VOCs	Benzene	5		ug/L	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	NA	NA	NA	< 1	< 1	< 1.0	< 1	< 1.0	< 1.0	NA		
VOCs	Bromodichloromethane			ug/L	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	NA	NA	NA	< 1	< 1	< 1.0	< 1	< 1.0	< 1.0	NA		
VOCs	Bromoform			ug/L	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	<													

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			Well Date Type	W-47 4/19/2022	W-47 10/17/2022	W-47 4/13/2023	W-48 1/12/2015	W-48 4/9/2015	W-48 7/10/2015	W-48 10/9/2015	W-48 1/20/2016	W-48 4/18/2016	W-48 7/5/2016	W-48 1/10/2017	W-48 4/3/2017	W-48 7/6/2017	W-48 10/13/2017	W-48 1/9/2018	W-48 4/10/2018	W-48 7/10/2018	W-48 10/25/2018	W-48 1/24/2019	W-48 10/21/2019	W-48 4/21/2020	W-48 10/20/2020	W-48 4/19/2021					
Group	Analyte	MCL	note	Units																											
Radiological	Alpha particles	15	*	pCi/L	1.06 #	NA	4.94	1.64 #	2.44 #	1.91 #	0.312 #	0 ##	0.463 #	0 ##	0 ##	1.09 #	1.00 #	0 ##	0.497 #	2.12 #	0.0511 #	2.93 #	0.639 #	3.90	0.460 #	0 ##	1.45 #	1.76 #			
Radiological	Beta particles	50	*	pCi/L	45.4	72.2	75.9	7.15	11.4	6.43	7.29	8.90	9.55	10.9	6.53	4.15 #	15.6	8.47	6.79	28.3	4.88	16.1	14.8	15.7	9.32	7.64	7.20	7.90	12.6		
Radiological	Tritium			pCi/L	0 ##	2.38 #	165 #	0 ##	0 ##	96.5 #	0 ##	0 ##	0 ##	0 ##	0 ##	15.1 #	0 ##	142 #	221 #	0 ##	0 ##	260 #	0 ##	0 ##	87.4 #	190 #	0 ##	0 ##	49.3 #		
Radiological	Technetium-99	900		pCi/L	90.4	114	120	62.3 #	0 ##	0 ##	74.1 #	95.0 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0 ##	13.1 #	14.9 #	13.8	14.9	16.4	
Radiological	Uranium-233/234			pCi/L	0 ##	NA	0 ##	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.294	0.0449 #	0.231 #	0.00192 #	NA	0 ##	
Radiological	Uranium-235/236			pCi/L	0.0798 #	NA	0 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.425	0.106 #	0.0663 #	0 ##	NA	0.0465 #	
Radiological	Uranium-238			pCi/L	0.0736 #	NA	0.0201 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.194 #	0.0109 #	0.00988 #	0.00138 #	NA	0 ##	
Radiological	Percent Uranium-235	%	0 #	ug/L	NA	0 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25.3	0 #	0 #	0 #	NA	0 #	
Radiological	Uranium-234			ug/L	<0.0500	<0.0500	<0.0500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	
Radiological	Uranium-235			ug/L	<0.0700	<0.0700	<0.0700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	
Radiological	Uranium-238			ug/L	<0.200	<0.200	<0.200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0922 J	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	
Radiological	Total Uranium Isotopes	30		ug/L	<0.200	<0.200	<0.200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0922 J	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	
Chemical	Fluoride	4		mg/L	5.1	3.9	4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.33	0.321	0.36	0.31	0.370		
Chemical	Nitrate as N	10		mg/L	49	56	62	2.3	3.2	3.4	3.6	3.8	4.7	4.1	4.4	4.7	4.5	4.7	4	4.6	5	4.6	5.3	5	5.3	4.9	5.1	5.4	4.8		
Chemical	Ammonia as N			mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0446	0.0422	0.0347	0.0976 J	0.0206 J		
Metals	Aluminum			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	70.4 J	87.4 J	85.4 J	NA	NA		
Metals	Antimony	6		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Metals	Arsenic	10		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0
Metals	Barium	2000		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97.1	99.1	105	NA	NA	
Metals	Beryllium	4		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.00	<5.00	<5.00	<5.00	<5.00	
Metals	Cadmium	5		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Metals	Calcium			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5690	5870	6080	NA	NA		
Metals	Chromium	100		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10.0	1.11 J	<10.0	NA	NA	
Metals	Cobalt			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.00	<5.00	1.1 J	NA	NA	
Metals	Copper	1300		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<20.0	<20.0	<20.0	<20.0	<20.0	
Metals	Iron			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100	<100	<100	<100	<100	
Metals	Lead	15		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<20.0	<20.0	<20.0	<20.0	<20.0	
Metals	Magnesium</																														

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Well Date Type			W-47 4/19/2022 N	W-47 10/17/2022 N	W-47 4/13/2023 N	W-48 1/12/2015 N	W-48 4/9/2015 N	W-48 7/10/2015 N	W-48 10/9/2015 N	W-48 1/20/2016 N	W-48 4/18/2016 N	W-48 7/5/2016 N	W-48 10/6/2016 N	W-48 1/10/2017 N	W-48 4/3/2017 N	W-48 7/6/2017 N	W-48 10/13/2017 N	W-48 1/9/2018 N	W-48 4/10/2018 N	W-48 7/10/2018 N	W-48 10/25/2018 N	W-48 1/24/2019 N	W-48 10/21/2019 N	W-48 10/21/2019 FD	W-48 4/21/2020 N	W-48 10/20/2020 N	W-48 4/19/2021 N
Group	Analyte	MCL	note	Units																							
SVOCs	Caprolactam			ug/L	NA	NA	NA	< 26	< 25	< 25	< 25	< 25	< 27	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8.0	< 8.0	< 8	< 4.0	< 4.0	
SVOCs	Carbazole			ug/L	NA	NA	NA	< 5.1	< 5	< 5	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	
SVOCs	Chrysene			ug/L	NA	NA	NA	< 5.1	< 5	< 5	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 0.16	< 0.16	
SVOCs	Di-n-butyl phthalate			ug/L	NA	NA	NA	< 5.1	< 5	< 5	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 4.0	< 4.0	
SVOCs	Di-n-octyl phthalate			ug/L	NA	NA	NA	< 5.1	< 5	< 5	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 4.0	< 4.0	
SVOCs	Dibenz(a,h)anthracene			ug/L	NA	NA	NA	< 5.1	< 5	< 5	< 5	< 5	< 5.3	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.80	< 0.80	< 0.8	< 0.16	< 0.16	
SVOCs	Dibenzofuran			ug/L	NA	NA	NA	< 5.1	< 5	< 5	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	
SVOCs	Diethyl phthalate			ug/L	NA	NA	NA	< 5.1	< 5	< 5	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 4.0	< 4.0	
SVOCs	Dimethyl phthalate			ug/L	NA	NA	NA	< 5.1	< 5	< 5	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 4.0	< 4.0	
SVOCs	Fluoranthene			ug/L	NA	NA	NA	< 5.1	< 5	< 5	< 5	< 5	< 5.3	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.80	< 0.80	< 0.8	< 0.16	< 0.16	
SVOCs	Fluorene			ug/L	NA	NA	NA	< 5.1	< 5	< 5	< 5	< 5	< 5.3	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.80	< 0.80	< 0.8	< 0.16	< 0.16	
SVOCs	Hexachlorobenzene	1		ug/L	NA	NA	NA	< 5.1	< 5	< 5	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	
SVOCs	Hexachlorobutadiene			ug/L	NA	NA	NA	< 5.1	< 5	< 5	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	
SVOCs	Hexachlorocyclopentadiene	50		ug/L	NA	NA	NA	< 26	< 25	< 25	< 25	< 25	< 27	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 4.0	< 4.0
SVOCs	Hexachloroethane			ug/L	NA	NA	NA	< 5.1	< 5	< 5	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	NA	NA	NA	< 5.1	< 5	< 5	< 5	< 5	< 5.3	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.80	< 0.80	< 0.8	< 0.16	< 0.16	
SVOCs	Isophorone			ug/L	NA	NA	NA	< 5.1	< 5	< 5	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	
SVOCs	N-Nitrosodi-n-propylamine			ug/L	NA	NA	NA	< 5.1	< 5	< 5	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	
SVOCs	N-Nitrosodiphenylamine			ug/L	NA	NA	NA	< 5.1	< 5	< 5	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	
SVOCs	Naphthalene			ug/L	NA	NA	NA	< 5.1	< 5	< 5	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	
SVOCs	Nitrobenzene			ug/L	NA	NA	NA	< 5.1	< 5	< 5	< 5	< 5	< 5.3	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	
SVOCs	Pentachlorophenol	1		ug/L	NA	NA	NA	< 26	< 25	< 25	< 25	< 25	< 27	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 4.0	< 4.0
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.97	< 0.97
SVOCs	Phenanthrene			ug/L	NA	NA	NA	< 5.1	< 5	< 5	< 5	< 5	< 5.3	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.80	< 0.80	< 0.8	< 0.16	< 0.16	
SVOCs	Phenol			ug/L	NA	NA	NA	< 5.1	< 5	< 5	< 5	< 5	< 5.3	< 4	< 4	&											

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			Well Date Type	W-48 10/19/2021	W-48 4/19/2022	W-48 10/18/2022	W-48 4/17/2023	W-49 12/13/2018	W-49 1/29/2019	W-49 10/24/2019	W-49 4/23/2020	W-49 10/21/2020	W-49 4/19/2021	W-49 10/20/2021	W-49 4/18/2022	W-49 10/19/2022	W-49 4/14/2023	W-50 1/24/2019	W-50 10/15/2019	W-50 4/16/2020	W-50 10/15/2020	W-50 4/12/2021	W-50 10/12/2021	W-50 4/11/2022	W-50 10/11/2022	W-50 4/18/2023	W-51 9/25/2018					
Group	Analyte	MCL note	Units																													
Radiological	Alpha particles	15 *	pCi/L	0 ##	0.0436 #	1.28 #	0.422 #	3.26 #	3.87	0.196 #	1.80 #	5.78	0.338 #	0 ##	2.23 #	0.565 #	NA	NA	1.34 #	3.48 #	1.63 #	1.79 #	2.28 #	0.966 #	0.820 #	NA	NA	NA				
Radiological	Beta particles	50 *	pCi/L	13.7	5.98	5.92	9.73	0.727 #	2.72 #	4.34 #	0.719 #	6.76	1.81 #	0 ##	3.38 #	NA	NA	1.59 #	0.0720 #	3.92	0.149 #	1.57 #	4.28	2.21 #	NA	NA	NA					
Radiological	Tritium		pCi/L	132 #	124 #	0 ##	263 #	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA												
Radiological	Technetium-99	900	pCi/L	14.9	15.2	17.9	13.1	27.2 #	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	2.27 #	0.0495 #	1.81 #	4.64 #	0 ##	0 ##	0.678 #	0 ##	0.173 #	0.661 #	0 ##	0 ##	NA	NA	NA		
Radiological	Uranium-233/234		pCi/L	0 ##	0.0808 #	NA	0.174 #	0.314 #	0.354 #	0.154 #	0.432	0 ##	NA	0 ##	0 ##	0 ##	NA	0.288 #	0.685	0.279 #	0.314 #	NA	0.0632 #	0 ##	0.166 #	NA	0.129 #	NA	NA	NA		
Radiological	Uranium-235/236		pCi/L	0 ##	0.0348 #	NA	0.0288 #	0.0196 #	0.171 #	0.0321 #	0.0321 #	0 ##	NA	0.0396 #	0 ##	0.00184 #	NA	0 ##	0.265	0.0468 #	0.0999 #	NA	0 ##	0.0722 #	0.00277 #	NA	0.0726 #	NA	NA	NA		
Radiological	Uranium-238		pCi/L	0.0103 #	0 ##	NA	0.0182 #	0.198 #	0.0380 #	0.0260 #	0.0102 #	NA	0.0236 #	0.0110 #	0.0668 #	NA	0.0884 #	0.188 #	0.201 #	0.133 #	NA	0 ##	0.0400 #	0.242 #	NA	0.0588 #	NA	NA	NA			
Radiological	Percent Uranium-235	%	#	0 #	0 #	NA	0 #	0 #	0 #	0 #	0 #	NA	0 #	0 #	0 #	NA	18.0	0 #	0 #	NA	0 #	0 #	NA	0 #	0 #	NA	0 #	NA	NA			
Radiological	Uranium-234	ug/L	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	NA				
Radiological	Uranium-235	ug/L	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	NA				
Radiological	Uranium-238	ug/L	<0.200	<0.200	<0.200	<0.200	<0.200	0.104 J	0.0731 J	0.0695 J	0.0865 J	0.0735 J	<0.200	<0.200	0.0826 J	<0.200	0.0673 J	0.103 J	0.0876 J	0.101 J	0.151 J	0.171 J	0.117 J	0.180 J	0.184 J	0.213	0.123 J	NA				
Radiological	Total Uranium Isotopes	30	ug/L	<0.200	<0.200	<0.200	<0.200	0.104 J	0.0731 J	0.0695 J	0.0865 J	0.0735 J	<0.200	<0.200	0.0826 J	<0.200	0.0673 J	0.103 J	0.0876 J	0.101 J	0.151 J	0.171 J	0.117 J	0.180 J	0.184 J	0.213	0.123 J	NA				
Chemical	Fluoride	4	mg/L	0.31	0.40	0.36	0.41	NA	NA	0.003	0.053	0.011	<0.1	0.129	<0.10	<0.10	NA	0.035	<0.1	<0.1	0.016 J	0.016 J	<0.10	<0.10	<0.10	<0.10	NA	NA	NA			
Chemical	Nitrate as N	10	mg/L	5.5	6.0	5.8	4.7	<0.02	<0.02	<0.020	<0.020	0.104 J	0.0731 J	0.0695 J	0.0865 J	0.0735 J	<0.200	<0.200	0.0826 J	<0.200	0.0673 J	0.103 J	0.0876 J	0.101 J	0.151 J	0.171 J	0.117 J	0.180 J	0.184 J	0.213	0.123 J	NA
Chemical	Ammonia as N		mg/L	0.0348 J	NA	NA	NA	NA	NA	0.0151	0.0097	0.0229	0.0118 J	0.0189 J	0.0537 J	NA	NA	NA	NA	0.0185	0.0171	0.0328 J	0.0244 J	0.0252 J	NA	NA	NA	NA	NA	NA		
Metals	Aluminum		ug/L	NA	NA	NA	NA	NA	NA	<200	<200	<200	NA	NA	NA	NA	NA	NA	<200	<200	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Antimony	6	ug/L	NA	NA	NA	NA	NA	NA	<20.0	<20.0	6.8 J	NA	NA	NA	NA	NA	NA	<20.0	<20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Arsenic	10	ug/L	NA	NA	NA	NA	NA	NA	<30.0	<30.0	<30.0	NA	NA	NA	NA	NA	NA	<30.0	<30.0	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Barium	2000	ug/L	NA	NA	NA	NA	NA	NA	10.5	11.6	8.93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Beryllium	4	ug/L	NA	NA	NA	NA	NA	NA	<5.00	<5.00	<5.00	NA	NA	NA	NA	NA	NA	<5.00	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Cadmium	5	ug/L	NA	NA	NA	NA	NA	NA	<5.00	<5.00	<5.00	NA	NA	NA	NA	NA	NA	<5.00	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Calcium		ug/L	NA	NA	NA	NA	NA	NA	729	790	690	NA	NA	NA	NA	NA	NA	733	619	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Chromium	100	ug/L	NA	NA	NA	NA	NA	NA	9.3 J	14.7	1.09 J	NA	NA	NA	NA	NA	NA	<10.0	<10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Cobalt		ug/L	NA	NA	NA	NA	NA	NA	1.25 J	1.19 J	1.12 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Copper	1300	ug/L	NA	NA	NA	NA	NA	NA	<20.0	<20.0	<20.0																				

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Well Date Type			W-48 10/19/2021 N	W-48 4/19/2022 N	W-48 10/18/2022 N	W-48 4/17/2023 N	W-49 12/13/2018 N	W-49 1/29/2019 N	W-49 10/24/2019 FD	W-49 4/23/2020 N	W-49 10/21/2020 N	W-49 4/19/2021 N	W-49 10/20/2021 N	W-49 4/18/2022 N	W-49 10/19/2022 N	W-49 4/14/2023 N	W-50 1/24/2019 N	W-50 10/15/2019 N	W-50 4/16/2020 N	W-50 10/15/2020 N	W-50 4/12/2021 N	W-50 10/12/2021 N	W-50 4/11/2022 N	W-50 10/11/2022 N	W-50 4/18/2023 N	W-51 9/25/2018 N	
Group	Analyte	MCL	note	Units																							
SVOCs	Caprolactam			ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 8	< 8.0	< 8.0	< 8	< 4.0	NA	NA	NA	NA	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	NA
SVOCs	Carbazole			ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 4	< 4	< 4.0	< 4	< 0.80	NA	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Chrysene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16	< 0.8	< 0.80	< 0.80	< 0.8	< 0.16	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA
SVOCs	Di-n-butyl phthalate			ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4	< 4	< 4.0	< 4	< 4.0	NA	NA	NA	NA	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA
SVOCs	Di-n-octyl phthalate			ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4	< 4	< 4.0	< 4	< 4.0	NA	NA	NA	NA	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA
SVOCs	Dibenz(a,h)anthracene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16	< 0.8	< 0.80	< 0.80	< 0.8	< 0.16	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA
SVOCs	Dibenzofuran			ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 4	< 4	< 4.0	< 4	< 0.80	NA	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Diethyl phthalate			ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4	< 4	< 4.0	< 4	< 4.0	NA	NA	NA	NA	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA
SVOCs	Dimethyl phthalate			ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4	< 4	< 4.0	< 4	< 4.0	NA	NA	NA	NA	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA
SVOCs	Fluoranthene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16	< 0.8	< 0.80	< 0.80	< 0.8	< 0.16	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA
SVOCs	Fluorene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16	< 0.8	< 0.80	< 0.80	< 0.8	< 0.16	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA
SVOCs	Hexachlorobenzene	1		ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 4	< 4	< 4.0	< 4	< 0.80	NA	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Hexachlorobutadiene			ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 4	< 4	< 4.0	< 4	< 0.80	NA	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Hexachlorocyclopentadiene	50		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 20	< 20	< 20	< 20	< 4.0	NA	NA	NA	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	
SVOCs	Hexachloroethane			ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 4	< 4	< 4.0	< 4	< 0.80	NA	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16	< 0.8	< 0.80	< 0.80	< 0.8	< 0.16	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	
SVOCs	Isophorone			ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 4	< 4	< 4.0	< 4	< 0.80	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	
SVOCs	N-Nitrosodi-n-propylamine			ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 4	< 4	< 4.0	< 4	< 0.80	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	
SVOCs	N-Nitrosodiphenylamine			ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 4	< 4	< 4.0	< 4	< 0.80	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	
SVOCs	Naphthalene			ug/L	1.1	< 0.16	< 0.16	< 0.16	1.3	< 0.8	< 0.80	< 0.8	< 0.16	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	
SVOCs	Nitrobenzene			ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 4	< 4	< 4.0	< 4	< 0.80	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	
SVOCs	Pentachlorophenol	1		ug/L	< 4.0	< 4.0	< 4.0	< 4.0	< 20	< 20	< 20	< 20	< 4.0	NA	NA	NA	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	< 0.98	NA	NA	NA	NA	< 0.96	< 0.94	NA	NA	NA	NA	NA		
SVOCs	Phenanthrene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16	< 0.8	< 0.80	< 0.80	< 0.8	< 0.16	NA	NA	NA	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	
SVOCs	Phenol			ug/L	< 0.80	< 0.80	< 0.80	< 0.80	< 4	< 4	< 4.0	< 4	< 0.80	NA	NA	NA	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	
SVOCs	Pyrene																										

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-51 10/9/2018 N	W-51 10/28/2018 N	W-51 1/25/2019 N	W-51 10/3/2019 N	W-51 4/9/2020 N	W-51 10/14/2020 N	W-51 4/13/2021 N	W-51 10/13/2021 N	W-51 4/11/2022 N	W-51 10/12/2022 N	W-51 4/12/2023 N	W-52 9/24/2018 N	W-52 10/9/2018 N	W-52 10/28/2018 N	W-52 1/26/2019 N	W-52 10/3/2019 N	W-52 4/9/2020 N	W-52 10/12/2020 N	W-52 4/12/2021 N	W-52 10/13/2021 N	W-52 4/11/2022 N	W-52 10/12/2022 N	W-52 4/11/2023 N	W-53 9/24/2018 N	W-53 10/9/2018 N		
Group	Analyte	MCL	note	Units																									
Radiological	Alpha particles	15	*	pCi/L	NA	NA	2.27 #	0.544 #	0.101 #	2.20 #	0 ##	1.28 #	0 ##	NA	NA	NA	NA	0.246 #	0 ##	2.41 #	0.198 #	1.37 #	1.20 #	0.835 #	NA	NA	NA	NA	
Radiological	Beta particles	50	*	pCi/L	NA	NA	3.49 #	3.56	0.258 #	1.88 #	4.56	3.90 #	2.46 #	NA	NA	NA	NA	2.71 #	1.61 #	2.43 #	4.12	0 ##	1.65 #	5.46	NA	NA	NA	NA	
Radiological	Tritium			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Radiological	Technetium-99	900		pCi/L	NA	NA	5.46 #	0 ##	0 ##	1.67 #	0 ##	0 ##	0 ##	1.14 #	0.559 #	NA	NA	NA	NA	0 ##	0 ##	0.0513 #	0 ##	0 ##	0.0567 #	1.69 #	3.22 #	NA	NA
Radiological	Uranium-233/234			pCi/L	NA	NA	0.230 #	0.0146 #	0 ##	NA	0.0240 #	0 ##	0.0408 #	NA	0.0886 #	NA	NA	0.368	0.121 #	0.0567 #	NA	0 ##	0.0358 #	0.522	NA	0.487	NA	NA	
Radiological	Uranium-235/236			pCi/L	NA	NA	0.0672 #	0.0799 #	0 ##	NA	0.0167 #	0 ##	0 ##	NA	0.132 #	NA	NA	0.0774 #	0.115	0.00430 #	NA	0 ##	0 ##	0.0139 #	NA	0.150 #	NA	NA	
Radiological	Uranium-238			pCi/L	NA	NA	0.123 #	0 ##	0 ##	NA	0.0587 #	0 ##	0 ##	NA	0.205	NA	NA	0.125 #	0.00124 #	0.00348 #	NA	0 ##	0 ##	0.0610 #	NA	0.188 #	NA	NA	
Radiological	Percent Uranium-235		%	NA	NA	0 #	0 #	0 #	NA	0 #	0 #	0 #	NA	0 #	NA	NA	0 #	93.5	0 #	NA	0 #	0 #	0 #	NA	0 #	NA	NA		
Radiological	Uranium-234		ug/L	NA	NA	< 0.0500	< 0.050	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	NA	NA	NA	< 0.0500	< 0.050	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	NA	NA	
Radiological	Uranium-235		ug/L	NA	NA	< 0.0700	< 0.070	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	NA	NA	NA	< 0.0700	< 0.070	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	0.0107 J	NA	NA	
Radiological	Uranium-238		ug/L	NA	NA	< 0.200	< 0.200	< 0.200	< 0.200	0.0737 J	< 0.200	< 0.200	< 0.200	NA	NA	NA	< 0.200	< 0.200	0.0983 J	< 0.200	0.0922 J	0.299	0.132 J	0.416	NA	NA	NA		
Radiological	Total Uranium Isotopes	30	ug/L	NA	NA	< 0.200	< 0.200	< 0.200	< 0.200	0.0737 J	< 0.200	< 0.200	< 0.200	NA	NA	NA	< 0.200	< 0.200	< 0.200	0.0983 J	< 0.200	0.0922 J	0.299	0.132 J	0.427	NA	NA		
Chemical	Fluoride	4	mg/L	NA	NA	0.215	0.173	0.195	0.191	0.224	0.21	0.19	0.17	NA	NA	NA	NA	1.39	0.992	1.01	0.913	1.54	0.79	0.57	0.87	NA	NA		
Chemical	Nitrate as N	10	mg/L	NA	0.03	0.023	0.11	0.046	0.043	0.088	0.11	0.079	0.077	0.13	0.67	NA	2.3	2.4	1.3	2	0.82	2.1	0.68	0.49	0.26	0.60	2.1	NA	
Chemical	Ammonia as N		mg/L	NA	NA	0.256	0.0106	0.305	0.206	0.166	NA	NA	NA	NA	NA	NA	NA	0.0212	0.0272	0.0279 J	0.0296 J	0.0301 J	NA	NA	NA	NA	NA		
Metals	Aluminum		ug/L	NA	NA	< 200	< 200	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 200	< 200	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Antimony	6	ug/L	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.32 J	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Arsenic	10	ug/L	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Barium	2000	ug/L	NA	NA	NA	NA	57	36.3	NA	NA	NA	NA	NA	NA	NA	NA	59.9	37.2	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Beryllium	4	ug/L	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Cadmium	5	ug/L	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Calcium		ug/L	NA	NA	NA	NA	11600	11600	NA	NA	NA	NA	NA	NA	NA	NA	11100	12100	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Chromium	100	ug/L	NA	NA	NA	NA	< 10.0	< 10.0	NA	NA	NA	NA	NA	NA	NA	NA	1.41 J	< 10.0	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Cobalt		ug/L	NA	NA	NA	NA	3.06 J	4.37 J	NA	NA	NA	NA	NA	NA	NA	NA	6.28	5.41	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Copper	1300	ug/L	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Iron		ug/L	NA	NA	NA	NA	40100	38900	NA	NA	NA	NA	NA	NA	NA	NA	2400	1050	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Lead	15	ug/L	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Magnesium		ug/L	NA	NA	NA	NA	2700	1890	NA	NA	NA	NA	NA	NA	NA	NA	2430	1530	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Selenium	50	ug/L	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	< 30.0	7.27 J	9.93 J	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Silver		ug/L	NA	NA	NA	NA	< 5.00	1.58 J	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Sodium		ug/L	NA	NA	NA	NA	8610	6800	NA	NA	NA	NA	NA	NA	NA	NA	30900	15000	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Thallium	2	ug/L	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Vanadium		ug/L	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Zinc		ug/L	NA	NA	NA	NA	6.65 J	9.14 J	NA	NA	NA	NA	NA	NA	NA	< 11.6 J	10.4 J	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	1,1'-Biphenyl		ug/L	< 20	13	12	7.4	13	6.8	5.0	NA	NA	NA	NA	NA	< 4	< 4</												

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			Well Date Type	W-51 10/9/2018 N	W-51 10/28/2018 N	W-51 1/25/2019 N	W-51 10/3/2019 N	W-51 4/9/2020 N	W-51 10/14/2020 N	W-51 4/13/2021 N	W-51 10/13/2021 N	W-51 4/11/2022 N	W-51 10/12/2022 N	W-51 4/12/2023 N	W-52 9/24/2018 N	W-52 10/9/2018 N	W-52 10/28/2018 N	W-52 1/26/2019 N	W-52 10/3/2019 N	W-52 4/9/2020 N	W-52 10/12/2020 N	W-52 4/12/2021 N	W-52 10/13/2021 N	W-52 4/11/2022 N	W-52 10/12/2022 N	W-52 4/11/2023 N	W-52 9/24/2018 N	W-53 10/9/2018 N
Group	Analyte	MCL	note	Units																								
SVOCs	Caprolactam			ug/L	< 40	< 8	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	< 8	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 8	
SVOCs	Carbazole			ug/L	< 20	4.5	4.9	< 4.0	6.1	4.9	2.2	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	1.7	1.4	NA	NA	NA	NA	NA	< 4
SVOCs	Chrysene			ug/L	< 4	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	
SVOCs	Di-n-butyl phthalate			ug/L	< 20	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 4.0	NA	NA	NA	NA	NA	< 4	
SVOCs	Di-n-octyl phthalate			ug/L	< 20	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 4.0	NA	NA	NA	NA	NA	< 4	
SVOCs	Dibenz(a,h)anthracene			ug/L	< 4	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	
SVOCs	Dibenzofuran			ug/L	< 20	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 4.0	NA	NA	NA	NA	NA	< 4	
SVOCs	Diethyl phthalate			ug/L	< 20	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 4.0	NA	NA	NA	NA	NA	< 4	
SVOCs	Dimethyl phthalate			ug/L	< 20	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 4.0	NA	NA	NA	NA	NA	< 4	
SVOCs	Fluoranthene			ug/L	< 4	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	
SVOCs	Fluorene			ug/L	< 4	< 0.8	1.3	< 0.80	3	0.17	0.28	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	0.28	NA	NA	NA	NA	NA	1.8	
SVOCs	Hexachlorobenzene	1		ug/L	< 20	< 4	< 4	< 4.0	0.84	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 4.0	NA	NA	NA	NA	NA	< 4		
SVOCs	Hexachlorobutadiene			ug/L	< 20	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 4.0	NA	NA	NA	NA	NA	< 4	
SVOCs	Hexachlorocyclopentadiene	50		ug/L	< 100	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 20	
SVOCs	Hexachloroethane			ug/L	< 20	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 4.0	NA	NA	NA	NA	NA	< 4	
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	< 4	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	
SVOCs	Isophorone			ug/L	< 20	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 4.0	NA	NA	NA	NA	NA	< 4	
SVOCs	N-Nitrosodi-n-propylamine			ug/L	< 20	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 4.0	NA	NA	NA	NA	NA	< 4	
SVOCs	N-Nitrosodiphenylamine			ug/L	< 20	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 4.0	NA	NA	NA	NA	NA	< 4	
SVOCs	Naphthalene			ug/L	< 4	< 0.8	3.5	< 0.80	12	0.23	0.76	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	
SVOCs	Nitrobenzene			ug/L	< 20	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 4.0	NA	NA	NA	NA	NA	< 4	
SVOCs	Pentachlorophenol	1		ug/L	< 100	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 20	
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	< 1.0	< 0.98	NA	NA	NA	NA	NA	NA	NA	NA	< 0.10	< 0.95	NA	NA	NA	NA	NA	NA	
SVOCs	Phenanthrene			ug/L	< 4	1.8	1.8	< 0.80	2.9	0.67	0.49	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	1.9	
SVOCs	Phenol			ug/L	< 20	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 4.0	NA	NA	NA	NA	NA	< 4	
SVOCs	Pyrene			ug/L	< 4	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	
VOCs	Acetone			ug/L	NA	< 20	< 20	< 20	< 20																			

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			Well Date Type	W-53 10/28/2018	W-53 1/26/2019	W-53 10/3/2019	W-53 4/9/2020	W-53 10/12/2020	W-53 4/12/2021	W-53 10/12/2021	W-53 4/8/2022	W-53 10/10/2022	W-53 4/11/2023	W-54 9/24/2018	W-54 10/8/2018	W-54 10/28/2018	W-54 1/26/2019	W-54 10/4/2019	W-54 10/4/2019 FD	W-54 4/9/2020	W-54 10/12/2020	W-54 10/12/2020 FD	W-54 4/9/2021	W-54 10/12/2021	W-54 4/8/2022	W-54 10/10/2022	W-54 4/11/2023	W-54 9/24/2018 N	
Group	Analyte	MCL note	Units																										
Radiological	Alpha particles	15 *	pCi/L	NA	0.101 #	1.61 #	0 ##	0.771 #	2.12 #	0.303 #	NA	NA	NA	NA	0 ##	1.55 #	1.53 #	0.275 #	0.109 #	0 ##	0.357 #	0 ##	0.384 #	NA	NA	NA			
Radiological	Beta particles	50 *	pCi/L	NA	0.0470 #	1.72 #	3.20 #	3.45 #	1.55 #	4.93	NA	NA	NA	NA	3.58 #	1.96 #	0.741 #	1.60 #	2.30 #	2.70 #	1.63 #	2.06 #	3.98	NA	NA	NA			
Radiological	Tritium		pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Radiological	Technetium-99	900	pCi/L	NA	17.5 #	0 ##	0.874 #	0 ##	0 ##	0 ##	1.77 #	1.16 #	NA	NA	6.19 #	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	1.61 #	NA	
Radiological	Uranium-233/234		pCi/L	NA	0.376	0.0359 #	0 ##	NA	0.00350 #	0 ##	0 ##	NA	0.104 #	NA	0.779	0.0685 #	0.101 #	0 ##	NA	NA	0 ##	0.199 #	0.0500 #	NA	0.106 #	NA			
Radiological	Uranium-235/236		pCi/L	NA	0.175 #	0 ##	0.0382 #	NA	0 ##	0 ##	NA	0.0219 #	NA	NA	0.286	0 ##	0.0554	0.0287 #	NA	NA	0.00768 #	0.0718 #	0 ##	NA	0.0804 #	NA			
Radiological	Uranium-238		pCi/L	NA	0.112 #	0 ##	0 ##	NA	0.0319 #	0 ##	0.126 #	NA	0.256	NA	NA	0.405	0.0126 #	0.0560 #	0 ##	NA	NA	0.0468 #	0.0172 #	0.0478 #	NA	0.107 #	NA		
Radiological	Percent Uranium-235	%	NA	0 #	0 #	NA	0 #	NA	0 #	NA	0 #	NA	NA	NA	9.88	0 #	13.3	0 #	NA	NA	0 #	0 #	NA	0 #	NA	NA			
Radiological	Uranium-234	ug/L	NA	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	NA	NA	NA	<0.0500	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.0500	NA			
Radiological	Uranium-235	ug/L	NA	<0.0700	<0.070	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	NA	NA	NA	<0.0700	<0.070	<0.070	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	NA			
Radiological	Uranium-238	ug/L	NA	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	NA	NA	NA	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.0703 J	NA		
Radiological	Total Uranium Isotopes	30	ug/L	NA	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	NA	NA	NA	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.0703 J	NA		
Chemical	Fluoride	4	mg/L	NA	0.081	0.017	0.092 J	0.0520 J	0.063 J	<0.10	0.10	<0.10	NA	NA	0.258	0.26	0.093	0.222	0.209	0.117	0.137	0.31	<0.10	<0.10	NA				
Chemical	Nitrate as N	10	mg/L	0.67	0.063	0.57	0.033	0.12	0.070	0.33	0.13	<0.040	0.094	2.2	NA	2.9	3	2.8	2.8	1.7	2.1	2.2	1.8	2.0	2.4	1.6	1.1	5.1	
Chemical	Ammonia as N		mg/L	NA	0.0397	0.108	0.0457 J	0.0273 J	0.0245 J	NA	NA	NA	NA	NA	0.0037	0.0125	0.0156	0.0178 J	0.0196 J	0.0244 J	0.0214 J	NA	NA	NA	NA	NA	NA		
Metals	Aluminum		ug/L	NA	<200	<200	NA	NA	NA	NA	NA	NA	NA	NA	<200	<200	<200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Antimony	6	ug/L	NA	<20.0	<20.0	NA	NA	NA	NA	NA	NA	NA	NA	4.12 J	<20.0	<20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Arsenic	10	ug/L	NA	<30.0	<30.0	NA	NA	NA	NA	NA	NA	NA	NA	<30.0	<30.0	<30.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Barium	2000	ug/L	NA	NA	78.2	46.7	NA	NA	NA	NA	NA	NA	NA	NA	61.2	61.8	46.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Beryllium	4	ug/L	NA	<5.00	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	<5.00	<5.00	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Cadmium	5	ug/L	NA	<5.00	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	<5.00	<5.00	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Calcium		ug/L	NA	15600	11100	NA	NA	NA	NA	NA	NA	NA	NA	11900	12100	8530	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Chromium	100	ug/L	NA	<10.0	<10.0	NA	NA	NA	NA	NA	NA	NA	NA	2.36 J	2.48 J	1.71 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Cobalt		ug/L	NA	NA	10.6	12.5	NA	NA	NA	NA	NA	NA	NA	<5.00	<5.00	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Copper	1300	ug/L	NA	<20.0	<20.0	NA	NA	NA	NA	NA	NA	NA	NA	<20.0	<20.0	<20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Iron		ug/L	NA	5620	2640	NA	NA	NA	NA	NA	NA	NA	NA	1190	1230	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals	Lead	15	ug/L	NA	<20.0	<20.0	NA	NA	NA	NA	NA	NA	NA	NA	<20.0	<20.0	<20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Magnesium		ug/L	NA	6580																								

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-53 10/28/2018 N	W-53 1/26/2019 N	W-53 10/3/2019 N	W-53 4/9/2020 N	W-53 10/12/2020 N	W-53 4/12/2021 N	W-53 10/12/2021 N	W-53 4/8/2022 N	W-53 10/10/2022 N	W-53 4/11/2023 N	W-54 9/24/2018 N	W-54 10/8/2018 N	W-54 10/28/2018 N	W-54 1/26/2019 N	W-54 10/4/2019 N	W-54 10/4/2019 FD	W-54 4/9/2020 N	W-54 10/12/2020 N	W-54 10/12/2020 FD	W-54 4/9/2021 N	W-54 10/12/2021 N	W-54 4/8/2022 N	W-54 10/10/2022 N	W-54 4/11/2023 N		
Group	Analyte	MCL	note	Units																								
SVOCs	Caprolactam			ug/L	< 8	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	< 8	< 8	< 8.0	< 8.0	< 8	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	
SVOCs	Carbazole			ug/L	< 4	< 4	4.4	< 4	6.2	2.3	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Chrysene			ug/L	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.80	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA
SVOCs	Di-n-butyl phthalate			ug/L	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA
SVOCs	Di-n-octyl phthalate			ug/L	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA
SVOCs	Dibenz(a,h)anthracene			ug/L	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.80	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA
SVOCs	Dibenzofuran			ug/L	< 4	< 4	< 4.0	< 4	1.8	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Diethyl phthalate			ug/L	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA
SVOCs	Dimethyl phthalate			ug/L	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA
SVOCs	Fluoranthene			ug/L	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.80	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA
SVOCs	Fluorene			ug/L	< 0.8	< 0.8	1.0	1.5	2.6	0.95	NA	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.80	< 0.80	< 0.8	0.35	0.35	0.33	NA	NA	NA	NA	NA
SVOCs	Hexachlorobenzene	1		ug/L	< 4	< 4	< 4.0	< 4	1.8	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Hexachlorobutadiene			ug/L	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Hexachlorocyclopentadiene	50		ug/L	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 20	< 4.0	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA
SVOCs	Hexachloroethane			ug/L	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.80	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA
SVOCs	Isophorone			ug/L	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	N-Nitrosodi-n-propylamine			ug/L	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	N-Nitrosodiphenylamine			ug/L	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Naphthalene			ug/L	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.80	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA
SVOCs	Nitrobenzene			ug/L	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Pentachlorophenol	1		ug/L	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 20	< 4.0	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	< 1.0	< 0.93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	< 1.0	< 0.94	NA	NA	NA	NA	NA
SVOCs	Phenanthrene			ug/L	< 0.8	5.2	5.2	4	4.4	1.6	NA	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.80	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA
SVOCs	Phenol			ug/L	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs</																												

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date	W-55 10/8/2018 N	W-55 10/27/2018 N	W-55 1/26/2019 N	W-55 10/4/2019 N	W-55 4/8/2020 N	W-55 10/12/2020 N	W-55 4/9/2021 N	W-55 10/11/2021 N	W-55 4/8/2022 N	W-55 4/8/2022 FD	W-55 10/7/2022 N	W-55 4/4/2023 N	W-56 9/25/2018 N	W-56 10/8/2018 N	W-56 10/27/2018 N	W-56 1/26/2019 N	W-56 10/4/2019 N	W-56 4/7/2020 N	W-56 10/8/2020 N	W-56 4/9/2021 N	W-56 10/11/2021 N	W-56 4/7/2022 N	W-56 4/4/2023 N	W-57 9/25/2018 N		
Group	Analyte	MCL	note	Units																									
Radiological	Alpha particles	15	*	pCi/L	NA	NA	466	438	271	331	232	276	221	204	NA	NA	NA	NA	NA	257	264	60.9	190	102	309	390	NA	NA	
Radiological	Beta particles	50	*	pCi/L	NA	NA	84.0	77.3	52.9	47.9	35.3	61.1	56.6	45.7	NA	NA	NA	NA	NA	57.1	54.5	10.1	38.7	19.5	72.3	86.5	NA	NA	
Radiological	Tritium			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Radiological	Technetium-99	900		pCi/L	NA	NA	0##	0##	0##	0.411 #	0.449 #	0.379 #	0.700 #	0.383 #	0##	NA	NA	NA	NA	12.7 #	0##	0##	0##	0##	0.222 #	0##	1.08 #	1.20 #	
Radiological	Uranium-233/234			pCi/L	NA	NA	283	290	197	241	182	215	177	NA	NA	NA	NA	NA	176	192	47.7	162	84.5	231	302	NA	NA		
Radiological	Uranium-235/236			pCi/L	NA	NA	19.1	16.3	9.43	12.2	9.64	9.38	9.70	9.30	NA	NA	NA	NA	NA	12.1	9.18	2.29	8.10	3.90	12.2	15.0	NA	NA	
Radiological	Uranium-238			pCi/L	NA	NA	69.4	60.5	39.4	49.4	41.9	34.0	34.1	40.6	NA	NA	NA	NA	NA	43.7	37.9	9.79	34.1	17.9	49.0	62.9	NA	NA	
Radiological	Percent Uranium-235		%	NA	NA	4.10	4.01	3.58	3.69	3.45	4.11	4.23	3.44	NA	NA	NA	NA	NA	4.12	3.63	3.50	3.56	3.28	3.72	3.57	NA	NA		
Radiological	Uranium-234		ug/L	NA	NA	0.0459 J	0.052	0.032 J	< 0.0500	0.0320 J	0.0330 J	0.0340 J	0.0340 J	0.0300 J	0.0290 J	NA	NA	NA	NA	0.0343 J	0.034 J	< 0.0500	< 0.0500	0.0140 J	0.0410 J	0.0520	0.0780	0.138	NA
Radiological	Uranium-235		ug/L	NA	NA	5.6	5.79	3.77	4.9	3.53	3.87	3.99	3.77	3.45	2.99	NA	NA	NA	NA	4.05	4.19	0.98	3.08	1.38	4.44	5.80	9.10	14.0	NA
Radiological	Uranium-238		ug/L	NA	NA	172	177	112	150	99.6	117	116	111	103	86.6	NA	NA	NA	NA	128	130	30	97.4	40.0	139	173	282	432	NA
Radiological	Total Uranium Isotopes	30	ug/L	NA	NA	178	183	115	155	103	121	120	115	107	89.6	NA	NA	NA	NA	132	134	31	100	41.4	143	178	291	446	NA
Chemical	Fluoride	4	mg/L	NA	NA	0.062	0.047	0.057 J	0.0300 J	0.048 J	< 0.10	0.61	< 0.10	< 0.100	NA	NA	NA	NA	NA	0.257	0.241	0.309	0.298	0.297	0.33	0.33	0.305	NA	
Chemical	Nitrate as N	10	mg/L	NA	3.3	3.5	3.7	2	2.4	1.3	1.8	3.5	3.2	1.6	2.17	6.5	NA	6.5	4.1	4.2	2.8	4.4	2.6	3.0	3.5	2.3	1.88	6.2	
Chemical	Ammonia as N		mg/L	NA	NA	0.0108	0.026	0.0136 J	0.0282 J	0.0148 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.009	0.011	0.0905 J	0.0244 J	0.0763 J	NA	NA	NA	NA	
Metals	Aluminum		ug/L	NA	NA	< 200	< 200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 200	< 200	NA	NA	NA	NA	NA	NA	NA		
Metals	Antimony	6	ug/L	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.39 J	3.8 J	NA	NA	NA	NA	NA	NA		
Metals	Arsenic	10	ug/L	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA			
Metals	Barium	2000	ug/L	NA	NA	NA	NA	41.6	34.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	57.1	53.9	NA	NA	NA	NA	NA	NA		
Metals	Beryllium	4	ug/L	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA			
Metals	Cadmium	5	ug/L	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA			
Metals	Calcium		ug/L	NA	NA	NA	NA	8400	7700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11300	8730	NA	NA	NA	NA	NA	NA		
Metals	Chromium	100	ug/L	NA	NA	NA	NA	5.03 J	3.49 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.16 J	2.24 J	NA	NA	NA	NA	NA	NA		
Metals	Cobalt		ug/L	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA			
Metals	Copper	1300	ug/L	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA			
Metals	Iron		ug/L	NA	NA	NA	NA	< 100	38.9 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100	35.7 J	NA	NA	NA	NA	NA	NA			
Metals	Lead	15	ug/L	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0	5.65 J	NA	NA	NA	NA	NA	NA			
Metals	Magnesium		ug/L	NA	NA	NA	NA	5170	4010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5480	4060	NA	NA	NA	NA	NA	NA		
Metals	Manganese		ug/L	NA	NA	NA	NA	3.76 J	3.52 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.66 J	6.95 J	NA	NA	NA	NA	NA	NA		
Metals	Mercury	2	ug/L	NA	NA	NA	NA	< 0.200	< 0.200	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.200	< 0.200	NA	NA	NA	NA	NA	NA			
Metals	Nickel		ug/L	NA	NA	NA	NA	17.3	28.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.73 J	< 5.00	NA	NA	NA	NA	NA	NA		
Metals	Potassium		ug/L	NA	NA	NA	NA	2130	1640	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2710	2040	NA	NA	NA	NA	NA	NA	
Metals	Selenium	50	ug/L	NA	NA	NA	NA	9.89 J	< 30.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.58 J	9.37 J	NA	NA	NA	NA	NA	NA		
Metals	Silver		ug/L	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA			
Metals	Sodium		ug/L	NA	NA	NA	NA	11400	8700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14000	9910	NA	NA	NA	NA	NA	NA		
Metals	Thallium	2	ug/L	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA			
Metals	Vanadium		ug/L	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA																		

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Well Date Type			W-55 10/8/2018	W-55 10/27/2018	W-55 1/26/2019	W-55 10/4/2019	W-55 4/8/2020	W-55 10/12/2020	W-55 4/9/2021	W-55 10/11/2021	W-55 4/8/2022	W-55 4/8/2022	W-55 10/7/2022	W-55 4/4/2023	W-56 9/25/2018	W-56 10/8/2018	W-56 10/27/2018	W-56 1/26/2019	W-56 10/4/2019	W-56 4/7/2020	W-56 10/8/2020	W-56 4/9/2021	W-56 10/11/2021	W-56 4/7/2022	W-56 10/7/2022	W-56 4/4/2023	W-57 9/25/2018
Group	Analyte	MCL	note	Units																							
SVOCs	Caprolactam			ug/L	< 8	< 8	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	< 8	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	NA	
SVOCs	Carbazole			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Chrysene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	
SVOCs	Di-n-butyl phthalate			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 4.0	NA	NA	NA	NA	NA	
SVOCs	Di-n-octyl phthalate			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 4.0	NA	NA	NA	NA	NA	
SVOCs	Dibenz(a,h)anthracene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	
SVOCs	Dibenzofuran			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Diethyl phthalate			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 4.0	NA	NA	NA	NA	NA	
SVOCs	Dimethyl phthalate			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 4.0	NA	NA	NA	NA	NA	
SVOCs	Fluoranthene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	
SVOCs	Fluorene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	
SVOCs	Hexachlorobenzene	1		ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Hexachlorobutadiene			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Hexachlorocyclopentadiene	50		ug/L	< 20	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	
SVOCs	Hexachloroethane			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	
SVOCs	Isophorone			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	N-Nitrosodi-n-propylamine			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	N-Nitrosodiphenylamine			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Naphthalene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	
SVOCs	Nitrobenzene			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Pentachlorophenol	1		ug/L	< 20	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	< 1.0	< 0.93	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	< 0.94	NA	NA	NA	NA	NA	
SVOCs	Phenanthrene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	
SVOCs	Phenol			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA
SVOCs	Pyrene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	
VOCs	Acetone			ug/L	NA	< 20	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA</					

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-57 10/8/2018 N	W-57 10/27/2018 N	W-57 1/27/2019 N	W-57 10/3/2019 N	W-57 4/7/2020 N	W-57 10/8/2020 N	W-57 4/8/2021 N	W-57 10/7/2021 N	W-57 4/7/2022 N	W-57 10/7/2022 N	W-57 4/11/2023 N	W-58 9/25/2018 N	W-58 10/8/2018 N	W-58 10/27/2018 N	W-58 1/27/2019 N	W-58 10/4/2019 N	W-58 4/7/2020 N	W-58 10/8/2020 N	W-58 4/8/2021 N	W-58 10/11/2021 N	W-58 4/7/2022 N	W-58 10/7/2022 N	W-58 4/6/2023 N	W-59 9/25/2018 N	W-59 10/8/2018 N
Group	Analyte	MCL	note	Units																							
SVOCs	Caprolactam			ug/L	< 8	< 8	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	< 8	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 8
SVOCs	Carbazole			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4
SVOCs	Chrysene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8
SVOCs	Di-n-butyl phthalate			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4
SVOCs	Di-n-octyl phthalate			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4
SVOCs	Dibenz(a,h)anthracene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8
SVOCs	Dibenzofuran			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4
SVOCs	Diethyl phthalate			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4
SVOCs	Dimethyl phthalate			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4
SVOCs	Fluoranthene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8
SVOCs	Fluorene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8
SVOCs	Hexachlorobenzene	1		ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4
SVOCs	Hexachlorobutadiene			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4
SVOCs	Hexachlorocyclopentadiene	50		ug/L	< 20	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 20
SVOCs	Hexachloroethane			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8
SVOCs	Isophorone			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4
SVOCs	N-Nitrosodi-n-propylamine			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4
SVOCs	N-Nitrosodiphenylamine			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4
SVOCs	Naphthalene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8
SVOCs	Nitrobenzene			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4
SVOCs	Pentachlorophenol	1		ug/L	< 20	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 20
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	< 1.0	< 0.94	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	< 0.93	NA	NA	NA	NA	NA	NA
SVOCs	Phenanthrene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8
SVOCs	Phenol			ug/L	< 4	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4
SVOCs	Pyrene			ug/L	< 0.8	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA			

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
 Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-59 10/27/2018 N	W-59 1/27/2019 N	W-59 10/5/2019 N	W-59 4/7/2020 N	W-59 10/9/2020 N	W-59 4/9/2021 N	W-59 10/11/2021 N	W-59 4/6/2022 N	W-59 10/7/2022 N	W-59 1/5/2023 N	W-59 4/4/2023 N	W-60 10/30/2018 N	W-60 1/17/2019 N	W-60 10/17/2019 N	W-60 4/10/2020 N	W-60 10/15/2020 N	W-60 4/14/2021 N	W-60 10/15/2021 N	W-60 4/13/2022 N	W-60 10/14/2022 N	W-60 4/10/2023 N	W-61 10/30/2018 N	W-61 1/17/2019 N	W-61 10/17/2019 N	W-61 4/10/2020 N	
Group	Analyte	MCL	note	Units																								
SVOCs	Caprolactam			ug/L	< 8	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	< 8	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	< 8	< 8.0	< 8	
SVOCs	Carbazole			ug/L	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4
SVOCs	Chrysene			ug/L	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	
SVOCs	Di-n-butyl phthalate			ug/L	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4
SVOCs	Di-n-octyl phthalate			ug/L	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4
SVOCs	Dibenz(a,h)anthracene			ug/L	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	
SVOCs	Dibenzofuran			ug/L	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4
SVOCs	Diethyl phthalate			ug/L	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4
SVOCs	Dimethyl phthalate			ug/L	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4
SVOCs	Fluoranthene			ug/L	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	
SVOCs	Fluorene			ug/L	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	
SVOCs	Hexachlorobenzene	1		ug/L	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4
SVOCs	Hexachlorobutadiene			ug/L	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4
SVOCs	Hexachlorocyclopentadiene	50		ug/L	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 20
SVOCs	Hexachloroethane			ug/L	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	
SVOCs	Isophorone			ug/L	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4
SVOCs	N-Nitrosodi-n-propylamine			ug/L	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4
SVOCs	N-Nitrosodiphenylamine			ug/L	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4
SVOCs	Naphthalene			ug/L	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	
SVOCs	Nitrobenzene			ug/L	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4
SVOCs	Pentachlorophenol	1		ug/L	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 20
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	< 1.0	< 0.93	NA	NA	NA	NA	NA	NA	NA	NA	< 0.97	< 0.97	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Phenanthrene			ug/L	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.80	< 0.8	
SVOCs	Phenol			ug/L	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80									

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Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-61 10/15/2020 N	W-61 4/14/2021 N	W-61 10/15/2021 N	W-61 4/13/2022 N	W-61 10/14/2022 N	W-61 4/10/2023 N	W-62 11/1/2018 N	W-62 1/18/2019 N	W-62 10/22/2019 N	W-62 4/17/2020 N	W-62 10/20/2020 N	W-62 4/19/2021 N	W-62 10/19/2021 N	W-62 4/18/2022 FD	W-62 4/18/2022 N	W-62 10/17/2022 N	W-62 4/17/2023 N	W-63 10/31/2018 N	W-63 1/17/2019 N	W-63 10/21/2019 N	W-63 4/21/2020 N	W-63 10/20/2020 N	W-63 4/16/2021 N	W-63 10/19/2021 N	W-63 4/15/2022 N	
Group	Analyte	MCL	note	Units																								
SVOCs	Caprolactam			ug/L	< 4.0	< 4.0	NA	NA	NA	NA	< 8	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	< 8	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA
SVOCs	Carbazole			ug/L	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	Chrysene			ug/L	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA
SVOCs	Di-n-butyl phthalate			ug/L	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA
SVOCs	Di-n-octyl phthalate			ug/L	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA
SVOCs	Dibenz(a,h)anthracene			ug/L	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA
SVOCs	Dibenzofuran			ug/L	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	Diethyl phthalate			ug/L	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA
SVOCs	Dimethyl phthalate			ug/L	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA
SVOCs	Fluoranthene			ug/L	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA
SVOCs	Fluorene			ug/L	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA
SVOCs	Hexachlorobenzene	1		ug/L	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	Hexachlorobutadiene			ug/L	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	Hexachlorocyclopentadiene	50		ug/L	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA
SVOCs	Hexachloroethane			ug/L	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA
SVOCs	Isophorone			ug/L	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	N-Nitrosodi-n-propylamine			ug/L	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	N-Nitrosodiphenylamine			ug/L	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	Naphthalene			ug/L	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA
SVOCs	Nitrobenzene			ug/L	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA
SVOCs	Pentachlorophenol	1		ug/L	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA
SVOCs	Pentachlorophenol (SIM)	1		ug/L	< 0.98	< 0.94	NA	NA	NA	NA	< NA	< NA	< 0.99	< 0.98	< NA	< NA	NA	NA	NA	NA	< 1.0	< 1.0	< 0.97	< 0.97	NA	NA		
SVOCs	Phenanthrene			ug/L	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA
SVOCs	Phenol			ug/L	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	&lt							

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-63 10/13/2022	W-63 4/18/2023	W-64 11/1/2018	W-64 1/18/2019	W-64 10/17/2019	W-64 4/20/2020	W-64 10/16/2020	W-64 4/15/2021	W-64 10/19/2021	W-64 4/19/2022	W-64 10/17/2022	W-64 4/13/2023	W-65 10/31/2018	W-65 1/21/2019	W-65 4/24/2020	W-65 10/22/2020	W-65 4/20/2021	W-65 10/18/2021	W-65 4/14/2022	W-65 10/13/2022	W-65 1/6/2023	W-66 4/7/2023	W-66 10/31/2018	W-66 1/21/2019			
Group	Analyte	MCL	note	Units																									
Radiological	Alpha particles	15	*	pCi/L	NA	NA	1.91 #	3.89 #	4.11 #	5.82	1.02 #	0.887 #	5.14	2.44 #	NA	NA	2.49 #	0.423 #	1.22 #	2.07 #	1.86 #	2.38	0##	0.488 #	NA	NA	0.879 #	1.28 #	
Radiological	Beta particles	50	*	pCi/L	NA	NA	76.3	88.5	70.3	0.969 #	46.4	42.1	48.8	71.3	NA	NA	0.895 #	0.164 #	7.14	0##	2.33 #	0.340 #	0.229 #	2.01 #	NA	NA	NA	1.85 #	2.40 #
Radiological	Tritium			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Radiological	Technetium-99	900		pCi/L	16.9	21.9	74.7	118	81.9	0##	78.5	84.0	72.9	108	126	123	0##	0##	1.19 #	1.29 #	0##	0.363 #	0##	0.216 #	NA	2.00 #	0##	0##	
Radiological	Uranium-233/234			pCi/L	NA	0.910	0.176 #	0.516	0.0871 #	0.616	NA	0.0187 #	0.0842 #	0.0370 #	NA	0.0847 #	0.115 #	0.173 #	0##	0.0103 #	NA	0.0385 #	0##	0.0155 #	NA	NA	0.0973 #	0.4247 #	0.303 #
Radiological	Uranium-235/236			pCi/L	NA	0.158	0.0677 #	0.261	0.0256 #	0.0329 #	NA	0##	0##	0##	NA	0.0970 #	0##	0.198 #	0##	NA	0##	0.0175 #	0.0382 #	NA	NA	0.107 #	0.0129 #	0.179 #	
Radiological	Uranium-238			pCi/L	NA	0.715	0.0908 #	0.211	0.0239 #	0.226	NA	0.0324 #	0.0914 #	0.0344 #	NA	0.0785 #	0.0253 #	0.236 #	0.0898 #	0.0493 #	NA	0.159 #	0##	0.0396 #	NA	NA	0.136 #	0.104 #	0.331
Radiological	Percent Uranium-235		%	NA	3.32	0#	16.1	0#	0#	NA	0#	0#	NA	0#	0#	0#	NA	0#	0#	0#	NA	0#	0#	0#	NA	0#	0#	0#	
Radiological	Uranium-234		ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.050	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500			
Radiological	Uranium-235		ug/L	0.0108 J	0.0107 J	< 0.0700	< 0.0700	< 0.070	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700		
Radiological	Uranium-238		ug/L	1.46	1.45	0.14 J	< 0.200	< 0.200	0.28	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200		
Radiological	Total Uranium Isotopes	30	ug/L	1.47	1.46	0.14 J	< 0.200	< 0.200	0.28	< 0.200	0.0877 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200		
Chemical	Fluoride	4	mg/L	< 0.10	< 0.10	NA	NA	4.27	4.1	4.17	4.10	3.64	4.6	3.7	3.9	NA	NA	0.783	0.44	0.219	0.196	0.138	0.15	0.10	NA	< 0.10	NA	NA	
Chemical	Nitrate as N	10	mg/L	5.4	5.9	49	61	42	40	42	34	35	49	57	61	0.39	0.4	0.64	0.75	0.92	1.2	1.6	2.0	1.8	NA	1.6	18	2	
Chemical	Ammonia as N		mg/L	NA	NA	NA	NA	NA	NA	16	16.1	14.1	9.96	12.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Aluminum		ug/L	NA	NA	NA	NA	NA	NA	785	< 200	NA	NA	NA	NA	NA	NA	< 200	< 200	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Antimony	6	ug/L	NA	NA	NA	NA	NA	NA	8.91 J	< 20.0	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Arsenic	10	ug/L	NA	NA	NA	NA	NA	NA	5.4 J	< 30.0	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Barium	2000	ug/L	NA	NA	NA	NA	NA	NA	394	23.7	NA	NA	NA	NA	NA	NA	93.7	91.2	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Beryllium	4	ug/L	NA	NA	NA	NA	NA	NA	2.35 J	< 5.00	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Cadmium	5	ug/L	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Calcium		ug/L	NA	NA	NA	NA	NA	NA	22900	5020	NA	NA	NA	NA	NA	NA	8060	5720	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Chromium	100	ug/L	NA	NA	NA	NA	NA	NA	1.14 J	< 10.0	NA	NA	NA	NA	NA	NA	< 10.0	< 10.0	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Cobalt		ug/L	NA	NA	NA	NA	NA	NA	14.1	1.6 J	NA	NA	NA	NA	NA	NA	1.19 J	1.12 J	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Copper	1300	ug/L	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	< 20.0	4.56 J	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Iron		ug/L	NA	NA	NA	NA	NA	NA	< 100	24700	NA	NA	NA	NA	NA	NA	3680	679	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Lead	15	ug/L	NA	NA	NA	NA	NA	NA	5.51 J	< 20.0	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Magnesium		ug/L	NA	NA	NA	NA	NA	NA	9060	1890	NA	NA	NA	NA	NA	NA	2160	1800	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Manganese		ug/L	NA	NA	NA	NA	NA	NA	662	158	NA	NA	NA	NA	NA	NA	193	101	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Mercury	2	ug/L	NA	NA	NA	NA	NA	NA	< 200	< 200	NA	NA	NA	NA	NA	NA	< 200	< 200	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Nickel		ug/L	NA	NA	NA	NA	NA	NA	3.94 J	75	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Potassium		ug/L	NA	NA	NA	NA	NA	NA	8640	1030	NA	NA	NA	NA	NA	NA	2200	1840	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Selenium	50	ug/L	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Silver		ug/L	NA	NA	NA	NA	NA	NA	2.5 J	< 5.00	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA								

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Well			W-63	W-63	W-64	W-64	W-64	W-64	W-64	W-64	W-64	W-64	W-64	W-64	W-65	W-65	W-65	W-65	W-65	W-65	W-65	W-65	W-66	W-66					
Group	Analyte	MCL	note	Units	10/13/2022	4/18/2023	11/1/2018	1/18/2019	10/17/2019	4/20/2020	10/16/2020	4/15/2021	10/19/2021	4/19/2022	10/17/2022	4/13/2023	10/31/2018	1/21/2019	10/17/2019	4/24/2020	10/22/2020	4/20/2021	10/18/2021	4/14/2022	10/13/2022	1/6/2023	4/7/2023	10/31/2018	1/21/2019
SVOCs	Caprolactam		ug/L	NA	NA	< 8	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	< 8	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	< 8	< 8	NA	< 4	< 4	
SVOCs	Carbazole		ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	< 0.16	< 0.16	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	< 0.80	< 0.80	NA	NA	NA	NA	< 0.8	< 0.8	
SVOCs	Chrysene		ug/L	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 4.0	< 4.0	< 4.0	< 4.0	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 4	< 4		
SVOCs	Di-n-butyl phthalate		ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	
SVOCs	Di-n-octyl phthalate		ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	
SVOCs	Dibenz(a,h)anthracene		ug/L	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	NA	< 4	< 4	
SVOCs	Dibenzofuran		ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	NA	< 4	< 4
SVOCs	Diethyl phthalate		ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	NA	< 4	< 4
SVOCs	Dimethyl phthalate		ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	NA	< 4	< 4
SVOCs	Fluoranthene		ug/L	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	NA	< 4	< 4	
SVOCs	Fluorene		ug/L	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	NA	< 4	< 4	
SVOCs	Hexachlorobenzene	1	ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	NA	< 4	< 4
SVOCs	Hexachlorobutadiene		ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	NA	< 4	< 4
SVOCs	Hexachlorocyclopentadiene	50	ug/L	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	NA	< 4	< 4	
SVOCs	Hexachloroethane		ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	NA	< 4	< 4
SVOCs	Indeno(1,2,3-cd)pyrene		ug/L	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	NA	< 4	< 4	
SVOCs	Isophorone		ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	NA	< 4	< 4
SVOCs	N-Nitrosodi-n-propylamine		ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	NA	< 4	< 4
SVOCs	N-Nitrosodiphenylamine		ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	NA	< 4	< 4
SVOCs	Naphthalene		ug/L	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	NA	< 4	< 4	
SVOCs	Nitrobenzene		ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	NA	< 4	< 4
SVOCs	Pentachlorophenol	1	ug/L	NA	NA	< 20	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	< 20	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	NA	< 4	< 4	
SVOCs	Pentachlorophenol (SIM)	1	ug/L	NA	NA	< 1.0	< 1.0	< 0.95	< 1.0	< 0.95	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 0.95	< 1.0	< 0.95	NA	NA	NA	NA	< 1.0	< 0.8	NA	< 4	< 4	
SVOCs	Phenanthrene		ug/L	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	NA	< 4	< 4	
SVOCs	Phenol		ug/L	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	< 4	NA	< 4	< 4
SVOCs	Pyrene		ug/L	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	NA	< 4	< 4	
VOCs	Acetone		ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 100	< 100	NA	< 100	< 20		
VOCs	Benzene	5	ug/L	< 1.0	< 1.0	< 1	< 1	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 5	< 5	< 5	
VOCs	Bromodichloromethane		ug/L	< 1.0	< 1.0	< 1	< 1	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 5	< 5	< 5	
VOCs	Bromoform		ug/L	< 1.0	< 1.0	< 1	< 1	< 1.0	< 1	< 1.0	< 1.0	< 1																	

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			Well Date Type	W-66 10/17/2019	W-66 4/24/2020	W-66 10/22/2020	W-66 4/20/2021	W-66 10/18/2021	W-66 4/14/2022	W-66 10/13/2022	W-66 1/6/2023	W-67 4/7/2023	W-67 11/1/2018	W-67 1/18/2019	W-67 4/21/2020	W-67 10/19/2020	W-67 4/14/2021	W-67 10/18/2021	W-67 4/14/2022	W-67 10/17/2022	W-67 4/10/2023	W-68 11/6/2018	W-68 1/31/2019	W-68 10/22/2019	W-68 4/20/2020	W-68 10/22/2020						
Group	Analyte	MCL	note	Units																												
Radiological	Alpha particles	15	*	pCi/L	0 ##	0.673 #	0 ##	0.233 #	0.899 #	0.560 #	0.634 #	NA	NA	NA	0.823 #	0.640 #	0.945 #	3.78 #	1.74 #	0.655 #	2.06 #	1.60 #	NA	NA	2.95 #	1.23 #	0.922 #	3.23 #	0.248 #			
Radiological	Beta particles	50	*	pCi/L	3.33 #	3.87	1.89 #	3.80 #	2.95 #	2.22 #	4.33 #	NA	NA	NA	NA	NA	NA	73.4	67.5	65.3	55.6	35.8	45.5	33.4	37.7	NA	NA	0.641 #	0.645 #	2.33 #	5.89	0 ##
Radiological	Tritium			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Radiological	Technetium-99	900		pCi/L	0 ##	0 ##	0.572 #	0.453 #	1.10 #	0 ##	0.122 #	0 ##	NA	0 ##	82.9	114	84.3	86.5	81.3	83.4	69.8	50.0	58.4	52.1	0 ##	0 ##	0 ##	0.409 #	0.409 #	0.280 #		
Radiological	Uranium-233/234			pCi/L	0.0479 #	0 ##	NA	0 ##	0 ##	0.0119 #	0 ##	NA	NA	NA	0.0220 #	0.0482 #	0.261 #	0 ##	0 ##	NA	0 ##	0 ##	1.01	NA	0 ##	0.123 #	0.440	0.204 #	0.0317 #	NA		
Radiological	Uranium-235/236			pCi/L	0.00220 #	0.0452 #	NA	0.0381 #	0.0386 #	0.0264 #	0 ##	NA	NA	NA	0 ##	0.101 #	0.314	0 #	0 ##	NA	0 #	0 ##	0.0954 #	NA	0.0796 #	0.0386 #	0.368	0.0452 #	0 ##	NA		
Radiological	Uranium-238			pCi/L	0.0800 #	0.0178 #	NA	0 ##	0 ##	0.0230 #	0.0242 #	NA	NA	NA	0 ##	0.239	0.410	0.0343 #	0.0474 #	NA	0 ##	0 ##	0.293	NA	0.107 #	0 ##	0.398	0.0102 #	0 ##	NA		
Radiological	Percent Uranium-235		%	##	0 #	0 #	NA	0 #	0 #	NA	NA	NA	NA	NA	0 #	10.6	0 #	NA	0 #	NA	0 #	NA	0 #	12.5	0 #	0 #	NA	NA	NA			
Radiological	Uranium-234		ug/L	< 0.050	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	NA	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500				
Radiological	Uranium-235		ug/L	< 0.070	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	NA	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700				
Radiological	Uranium-238		ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	NA	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200				
Radiological	Total Uranium Isotopes	30	ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	NA	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200				
Chemical	Fluoride	4	mg/L	0.076	0.047	0.036 J	0.0330 J	0.031 J	0.033 J	< 0.10	< 0.10	NA	< 0.10	NA	0.01	0.018	< 0.1	0.0170 J	0.023 J	< 0.10	< 0.10	NA	NA	0.02	0.089	0.006 J						
Chemical	Nitrate as N	10	mg/L	1.5	1.5	1.4	1.4	1.3	1.3	2.1	1.6	NA	1.7	17	17	14	16	18	13	14	13	13	11	3.4	3.3	3.0	2.9	2.9				
Chemical	Ammonia as N		mg/L	0.0336	0.0177	0.021 J	0.0159 J	0.0188 J	0.0277 J	NA	NA	NA	NA	NA	NA	1.31	2.01	2.3	1.28	1.74	NA	NA	NA	NA	0.0143	0.0452	0.0172 J					
Metals	Aluminum		ug/L	< 200	< 200	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 200	< 200	NA	NA	NA	NA	NA	NA	NA	< 200	< 200	NA						
Metals	Antimony	6	ug/L	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA						
Metals	Arsenic	10	ug/L	< 30.0	6.59 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA						
Metals	Barium	2000	ug/L	68.5	59.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	306	285	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Beryllium	4	ug/L	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA					
Metals	Cadmium	5	ug/L	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA					
Metals	Calcium		ug/L	6730	5290	NA	NA	NA	NA	NA	NA	NA	NA	NA	11500	10400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Chromium	100	ug/L	< 10.0	1.63 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 10.0	< 10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Cobalt		ug/L	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.77 J	4.15 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA				
Metals	Copper	1300	ug/L	< 20.0	< 20.0	NA	NA	NA	NA</																							

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Well Date Type			W-66 10/17/2019 N	W-66 4/24/2020 N	W-66 10/22/2020 N	W-66 4/20/2021 N	W-66 10/18/2021 N	W-66 4/14/2022 FD	W-66 10/13/2022 N	W-66 1/6/2023 N	W-67 4/7/2023 N	W-67 11/1/2018 N	W-67 1/18/2019 N	W-67 4/21/2020 N	W-67 10/19/2020 N	W-67 4/14/2021 N	W-67 10/18/2021 N	W-67 4/14/2022 N	W-67 10/17/2022 N	W-67 4/10/2023 N	W-68 11/6/2018 N	W-68 1/31/2019 N	W-68 10/22/2019 N	W-68 4/20/2020 N	W-68 10/22/2020 N		
Group	Analyte	MCL	note	Units																							
SVOCs	Caprolactam			ug/L	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 8	< 8	< 4.0	< 4.0	NA	NA	NA	NA	< 8	< 8	< 8.0	< 8	< 4.0	
SVOCs	Carbazole			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	
SVOCs	Chrysene			ug/L	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.16
SVOCs	Di-n-butyl phthalate			ug/L	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	
SVOCs	Di-n-octyl phthalate			ug/L	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	
SVOCs	Dibenz(a,h)anthracene			ug/L	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.16
SVOCs	Dibenzofuran			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	
SVOCs	Diethyl phthalate			ug/L	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	
SVOCs	Dimethyl phthalate			ug/L	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 4.0	
SVOCs	Fluoranthene			ug/L	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.16
SVOCs	Fluorene			ug/L	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.16
SVOCs	Hexachlorobenzene	1		ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	
SVOCs	Hexachlorobutadiene			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	
SVOCs	Hexachlorocyclopentadiene	50		ug/L	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 20	< 20	< 20	< 20	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	
SVOCs	Hexachloroethane			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.16
SVOCs	Isophorone			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	
SVOCs	N-Nitrosodi-n-propylamine			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	
SVOCs	N-Nitrosodiphenylamine			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	
SVOCs	Naphthalene			ug/L	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.16
SVOCs	Nitrobenzene			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	
SVOCs	Pentachlorophenol	1		ug/L	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 20	< 20	< 20	< 20	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 4.0	
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	< 1.0	< 0.95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	
SVOCs	Phenanthrene			ug/L	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.16
SVOCs	Phenol			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	< 4	< 4.0	< 4	< 0.80	
SVOCs	Pyrene			ug/L	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.8	< 0.8	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	< 0.8	< 0.8	< 0.16
VOCs	Acetone			ug/L	< 100	< 20	< 200	< 100	< 20	< 100	NA	< 20	< 20	< 100	< 20	< 20	< 20	< 20	< 20	< 20	< 25.0	<					

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			Well Date Type	W-68 4/19/2021 N	W-68 10/19/2021 N	W-68 4/19/2022 N	W-68 10/17/2022 N	W-68 4/17/2023 N	W-69 10/23/2019 N	W-69 4/16/2020 N	W-69 10/15/2020 N	W-69 4/22/2021 N	W-69 10/21/2021 N	W-69 4/19/2022 N	W-69 10/18/2022 N	W-69 4/19/2023 FD	W-70 10/23/2019 N	W-70 4/16/2020 N	W-70 10/15/2020 N	W-70 4/22/2021 N	W-70 10/21/2021 N	W-70 4/19/2022 N	W-70 10/18/2022 N	W-70 4/19/2023 N	W-71 10/23/2019 N	W-71 4/16/2020 N	W-71 10/15/2020 N			
Group	Analyte	MCL	note	Units																										
Radiological	Alpha particles	15	*	pCi/L	0 ##	0.0923 #	0.799 #	NA	NA	2.31 #	0.581 #	1.63 #	0 ##	0 ##	3.63	NA	NA	NA	0.0198 #	5.42	0.353 #	0.441 #	1.37 #	0.361 #	NA	NA	0.983 #	4.72	2.79 #	
Radiological	Beta particles	50	*	pCi/L	2.66 #	2.61 #	1.34 #	NA	NA	1.94 #	0.885 #	0.838 #	0.783 #	0 ##	2.96 #	NA	NA	NA	1.37 #	1.95 #	3.00 #	3.93 #	0 ##	3.12 #	NA	NA	8.11	4.39	3.51 #	
Radiological	Tritium			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA												
Radiological	Technetium-99	900		pCi/L	0 ##	0.0281 #	0.112 #	2.34 #	0.285 #	0 ##	0 ##	0 ##	0 ##	0 ##	3.32 #	2.83 #	0.232 #	0 ##	21.4 #	0 ##	0 ##	0.850 #	0.570 #	1.60 #	3.53	0 ##	12.2 #	1.27 #	0 ##	
Radiological	Uranium-233/234			pCi/L	0 ##	0 ##	0 ##	NA	0.0729 #	0.366	0 ##	NA	0 ##	0.0763 #	NA	0.170 #	0 ##	0.188 #	0 ##	NA	0 ##	0.0582 #	2.01	NA	0.251 #	0.228 #	0 ##	NA		
Radiological	Uranium-235/236			pCi/L	0 ##	0 ##	0.0574 #	NA	0 ##	0.118 #	0.0242 #	NA	0.0273 #	0.0618 #	0 ##	NA	0 ##	0.100 #	0 ##	NA	0 ##	0.0330 #	0.264 #	NA	0 ##	0.0113 #	0 ##	NA		
Radiological	Uranium-238			pCi/L	0 ##	0 ##	0 ##	NA	0 ##	0.201 #	0.00948 #	NA	0 ##	0 ##	0 ##	NA	0 ##	0.0319 #	0.0615 #	0 ##	NA	0 ##	0 ##	1.02	NA	0 ##	0.0743 #	0.0375 #	NA	
Radiological	Percent Uranium-235	%	0 #	0 #	0 #	NA	0 #	NA	0 #	0 #	NA	0 #	NA	0 #	NA	0 #	NA	0 #	NA	0 #	NA	0 #	NA	0 #	NA	0 #	NA	NA		
Radiological	Uranium-234	ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500			
Radiological	Uranium-235	ug/L	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700			
Radiological	Uranium-238	ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.165 J	0.0765 J	0.0959 J	
Radiological	Total Uranium Isotopes	30	ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.165 J	0.0765 J	0.0959 J	
Chemical	Fluoride	4	mg/L	0.0160 J	0.027 J	< 0.10	< 0.10	0.022	< 0.1	0.007 J	0.0180 J	0.075 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1	
Chemical	Nitrate as N	10	mg/L	2.5	2.8	3.0	3.1	1.7	0.16	0.23	0.4	0.51	0.35	0.60	0.062	0.45	0.44	1.4	1.5	1.4	1.7	1.6	1.8	1.5	1.4	0.021	< 0.02	0.064		
Chemical	Ammonia as N		mg/L	0.0171 J	0.255	NA	NA	NA	NA	0.0341	0.0307	0.035 J	0.0244 J	0.0228 J	NA	NA	NA	NA	0.0077	0.0125	0.0243 J	0.0147 J	0.0186 J	NA	NA	NA	NA	0.0149	0.0156	0.028 J
Metals	Aluminum		ug/L	NA	NA	NA	NA	NA	< 200	< 200	NA	NA	NA	NA	NA	NA	NA	< 200	< 200	NA	NA	NA	NA	NA	< 200	< 200	NA			
Metals	Antimony	6	ug/L	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	7.15 J	< 20.0	NA			
Metals	Arsenic	10	ug/L	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA			
Metals	Barium	2000	ug/L	NA	NA	NA	NA	NA	68.9	49.1	NA	NA	NA	NA	NA	NA	NA	91.2	87.1	NA	NA	NA	NA	NA	NA	NA	NA	22	12.2	NA
Metals	Beryllium	4	ug/L	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	1.17 J	1.02 J	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA
Metals	Cadmium	5	ug/L	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA
Metals	Calcium		ug/L	NA	NA	NA	NA	NA	2480	1290	NA	NA	NA	NA	NA	NA	NA	3170	2830	NA	NA	NA	NA	NA	NA	NA	NA	4300	1230	NA
Metals	Chromium	100	ug/L	NA	NA	NA	NA	NA	< 10.0	< 10.0	NA	NA	NA	NA	NA	NA	NA	< 10.0	< 10.0	NA	NA	NA	NA	NA	NA	NA	NA	< 10.0	< 10.0	NA
Metals	Cobalt		ug/L	NA	NA</td																									

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-68 4/19/2021 N	W-68 10/19/2021 N	W-68 4/19/2022 N	W-68 10/17/2022 N	W-68 4/17/2023 N	W-69 10/23/2019 N	W-69 4/16/2020 N	W-69 10/15/2020 N	W-69 4/22/2021 N	W-69 10/21/2021 N	W-69 4/19/2022 N	W-69 10/18/2022 N	W-69 4/19/2023 FD	W-70 10/23/2019 N	W-70 4/16/2020 N	W-70 10/15/2020 N	W-70 4/22/2021 N	W-70 10/21/2021 N	W-70 4/19/2022 N	W-70 10/18/2022 N	W-70 4/19/2023 N	W-71 10/23/2019 N	W-71 4/16/2020 N	W-71 10/15/2020 N	
Group	Analyte	MCL	note	Units																							
SVOCs	Caprolactam			ug/L	< 4.0	NA	NA	NA	NA	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	< 8.0	< 8	< 4.0	NA	NA	NA	NA	< 8.0	< 8	< 4.0
SVOCs	Carbazole			ug/L	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80
SVOCs	Chrysene			ug/L	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16
SVOCs	Di-n-butyl phthalate			ug/L	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0
SVOCs	Di-n-octyl phthalate			ug/L	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0
SVOCs	Dibenz(a,h)anthracene			ug/L	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16
SVOCs	Dibenzofuran			ug/L	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80
SVOCs	Diethyl phthalate			ug/L	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0
SVOCs	Dimethyl phthalate			ug/L	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0
SVOCs	Fluoranthene			ug/L	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16
SVOCs	Fluorene			ug/L	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16
SVOCs	Hexachlorobenzene	1		ug/L	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80
SVOCs	Hexachlorobutadiene			ug/L	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80
SVOCs	Hexachlorocyclopentadiene	50		ug/L	< 4.0	NA	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 4.0	NA	NA	NA	NA	< 20	< 20	< 4.0
SVOCs	Hexachloroethane			ug/L	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16
SVOCs	Isophorone			ug/L	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80
SVOCs	N-Nitrosodi-n-propylamine			ug/L	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80
SVOCs	N-Nitrosodiphenylamine			ug/L	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80
SVOCs	Naphthalene			ug/L	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16
SVOCs	Nitrobenzene			ug/L	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80
SVOCs	Pentachlorophenol	1		ug/L	< 4.0	NA	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 4.0	NA	NA	NA	NA	< 20	< 20	< 4.0
SVOCs	Pentachlorophenol (SIM)	1		ug/L	< 0.95	NA	NA	NA	NA	< 1.0	< 1.0	< 0.96	< 1.0	NA	NA	NA	NA	< 0.97	< 1.0	< 1.0	NA	NA	NA	NA	< 0.98	< 1.0	< 1.0
SVOCs	Phenanthrene			ug/L	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16
SVOCs	Phenol			ug/L	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80
SVOCs	Pyrene			ug/L	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16
VOCs	Acetone			ug/L																							

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date	W-71 4/22/2021	W-71 10/21/2021	W-71 10/21/2021	W-71 4/19/2022	W-71 10/19/2022	W-71 4/19/2023	W-72 10/4/2019	W-72 4/3/2020	W-72 10/9/2020	W-72 4/12/2021	W-72 10/12/2021	W-72 4/8/2022	W-72 10/11/2022	W-72 4/11/2023	W-73 10/4/2019	W-73 4/3/2020	W-73 10/8/2020	W-73 4/8/2021	W-73 10/8/2021	W-73 4/7/2022	W-73 10/10/2022	W-73 4/11/2023	W-74 10/9/2019	W-74 4/8/2020	W-74 10/12/2020			
Group	Analyte	MCL	note	Units																											
Radiological	Alpha particles	15	*	pCi/L	2.30 #	0.418 #	2.98 #	1.97 #	NA	NA	1.05 #	2.98 #	2.57	0.513 #	0 ##	1.39 #	NA	NA	0.241 #	0 ##	0.664	0.363 #	0 ##	0.499 #	NA	NA	0 ##	0 ##	3.87		
Radiological	Beta particles	50	*	pCi/L	4.92 #	2.35 #	2.04 #	0 ##	NA	NA	2.74 #	8.51	11.7	9.59	3.80 #	11.7	NA	NA	1.85 #	2.27 #	3.31 #	2.14 #	1.84 #	1.89 #	NA	NA	1.29 #	2.38 #	3.95		
Radiological	Tritium			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Radiological	Technetium-99	900		pCi/L	0 ##	0.0199 #	0.395 #	0 ##	0 ##	0 ##	0 ##	1.33 #	2.30 #	0 ##	0 ##	1.52 #	0.362 #	3.97	0 ##	0 ##	0 ##	0 ##	2.26 #	0 ##	0 ##	0 ##	2.01 #	11.5 #	0 ##	0 ##	0.658 #
Radiological	Uranium-233/234			pCi/L	0 ##	0 ##	0 ##	0.0847 #	NA	0 ##	0.125 #	1.17	NA	0.758	0.276	2.17	NA	3.22	0 ##	0.155 #	NA	0.0302 #	0.153 #	0.209 #	NA	0.348	0.111 #	0 ##	0 ##	NA	
Radiological	Uranium-235/236			pCi/L	0 ##	0.101 #	0.0591 #	0.0273 #	NA	0 ##	0 ##	0.0265 #	NA	0 ##	0.0107 #	0.0250 #	NA	0.227	0.0655 #	0.0780 #	NA	0.0786 #	0.0189 #	0.0274 #	NA	0.0237 #	0.00238 #	0 ##	0 ##	NA	
Radiological	Uranium-238			pCi/L	0 ##	0.0757 #	0 ##	0.149 #	NA	0.0920 #	0.0205 #	0.162	NA	0.134 #	0.111 #	0.758	NA	0.663	0.121 #	0 ##	NA	0.113 #	0.0894 #	0.117	NA	0.167 #	0.0963 #	0 ##	0 ##	NA	
Radiological	Percent Uranium-235			%	0 #	0 #	0 #	0 #	NA	0 #	0 #	0 #	NA	0 #	0 #	0 #	NA	5.05	0 #	0 #	NA	0 #	0 #	0 #	NA	0 #	0 #	0 #	0 #	NA	
Radiological	Uranium-234			ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500			
Radiological	Uranium-235			ug/L	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	0.021 J	< 0.0700	0.0457 J	< 0.0700	0.0469 J	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700		
Radiological	Uranium-238			ug/L	0.0784 J	0.0939 J	0.0898 J	0.135 J	0.0959 J	0.211	0.095 J	0.667	0.345	0.423	0.266	1.47	0.276	1.51	0.0831 J	0.0873 J	0.141 J	0.133 J	0.133 J	0.174 J	0.129 J	0.130 J	< 0.200	< 0.200			
Radiological	Total Uranium Isotopes	30		ug/L	0.0784 J	0.0939 J	0.0898 J	0.135 J	0.095 J	0.211	0.095 J	0.688	0.345	0.437	0.266	1.51	0.276	1.55	0.0831 J	0.0873 J	0.141 J	0.133 J	0.133 J	0.174 J	0.129 J	0.130 J	< 0.200	< 0.200			
Chemical	Fluoride	4		mg/L	0.0220 J	0.031 J	0.086 J	< 0.10	< 0.10	0.116	1.08	0.572	0.741	0.406	0.55	0.80	0.78	0.071	< 0.1	0.044 J	0.0300 J	0.056 J	< 0.10	< 0.10	0.019	0.01	0.012 J				
Chemical	Nitrate as N	10		mg/L	< 0.020	< 0.020	< 0.020	< 0.020	0.049	< 0.020	1.5	6.3	9.3	2.8	2.4	38	4.1	3.7	2.0	1.4	1.6	1.2	1.3	1.4	1.3	4.9	5.4	5.4			
Chemical	Ammonia as N			mg/L	0.0168 J	0.0212 J	0.0194 J	NA	NA	0.275	0.0322	0.0777 J	0.0252 J	0.0262 J	NA	NA	NA	NA	0.0167	0.0383	0.0279 J	0.0321 J	0.0208 J	NA	NA	0.159	0.0129	0.0133 J			
Metals	Aluminum			ug/L	NA	NA	NA	NA	NA	< 200	620	NA	NA	NA	NA	NA	NA	NA	126 J	< 200	NA	NA	NA	NA	< 200	< 200	NA				
Metals	Antimony	6		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.54 J	8.41 J	NA	NA	NA	NA	NA	NA	NA	4.18 J	< 20.0	NA	
Metals	Arsenic	10		ug/L	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	
Metals	Barium	2000		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	79	56.2	NA	NA	NA	NA	NA	NA	NA	151	150	NA	
Metals	Beryllium	4		ug/L	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	
Metals	Cadmium	5		ug/L	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	
Metals	Calcium			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9540	9290	NA	NA	NA	NA	NA	NA	NA	6700	6180	NA	
Metals	Chromium	100		ug/L	NA	NA	NA	NA	NA	NA	NA	1.59 J	1.81 J	NA	NA	NA	NA	NA	1.66 J	1.95 J	NA	NA	NA	NA	NA	NA	NA	< 10.0	< 10.0	NA	
Metals	Cobalt			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	5.27	< 5.00	NA	NA	NA	NA	NA	6.27	2.2 J	NA	NA	NA	NA	NA	NA	NA	3.43 J	< 5.00	NA
Metals	Copper	1300		ug/L	NA	NA	NA	NA	NA	NA	NA	< 20.0	13.6 J	NA	NA	NA	NA	NA	9.06 J	< 20.0	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	
Metals	Iron			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	1070	153	NA	NA	NA	NA	NA	299	37.4 J	NA	NA	NA	NA	NA	NA	NA	44.6 J	< 100	NA
Metals	Lead	15		ug/L	NA	NA	NA	NA	NA	NA	NA	< 20.0	7.1 J	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	
Metals	Magnesium			ug/L	NA	NA	NA	NA	NA	NA	NA	3760	4610	NA	NA	NA	NA	NA	4600	4710	NA	NA	NA	NA	NA	NA	NA	3050	2410	NA	
Metals	Manganese			ug/L	NA	NA	NA	NA	NA	NA	NA	992	11.2	NA	NA	NA	NA	NA	454	176	NA	NA	NA	NA	NA	NA	NA	134	56.7	NA	
Metals	Mercury	2		ug/L	NA	NA	NA	NA	NA	NA	NA	< 200	< 200	NA	NA	NA	NA	NA	< 200	< 200	NA	NA	NA	NA	NA	NA	NA	< 200	0.129 J	NA	
Metals	Nickel			ug/L	NA	NA	NA	NA	NA	NA	NA	9.31	< 5.00	NA	NA	NA	NA	NA	99.7	239	NA	NA	NA</td								

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Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-71 4/22/2021	W-71 10/21/2021	W-71 10/21/2021	W-71 4/19/2022	W-71 10/19/2022	W-71 4/19/2023	W-72 10/4/2019	W-72 4/3/2020	W-72 10/9/2020	W-72 4/12/2021	W-72 10/12/2021	W-72 4/8/2022	W-72 10/11/2022	W-72 4/11/2023	W-73 10/4/2019	W-73 4/3/2020	W-73 10/8/2020	W-73 4/8/2021	W-73 10/8/2021	W-73 4/7/2022	W-73 10/10/2022	W-73 4/11/2023	W-74 10/9/2019	W-74 4/8/2020	W-74 10/12/2020
Group	Analyte	MCL	note	Units																								
SVOCs	Caprolactam			ug/L	< 4.0	NA	NA	NA	NA	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	< 8.0	< 8	< 4.0
SVOCs	Carbazole			ug/L	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80
SVOCs	Chrysene			ug/L	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16
SVOCs	Di-n-butyl phthalate			ug/L	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0
SVOCs	Di-n-octyl phthalate			ug/L	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0
SVOCs	Dibenz(a,h)anthracene			ug/L	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16
SVOCs	Dibenzofuran			ug/L	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80
SVOCs	Diethyl phthalate			ug/L	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0
SVOCs	Dimethyl phthalate			ug/L	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0
SVOCs	Fluoranthene			ug/L	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16
SVOCs	Fluorene			ug/L	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16
SVOCs	Hexachlorobenzene	1		ug/L	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80
SVOCs	Hexachlorobutadiene			ug/L	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80
SVOCs	Hexachlorocyclopentadiene	50		ug/L	< 4.0	NA	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 4.0
SVOCs	Hexachloroethane			ug/L	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16
SVOCs	Isophorone			ug/L	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80
SVOCs	N-Nitrosodi-n-propylamine			ug/L	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80
SVOCs	N-Nitrosodiphenylamine			ug/L	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80
SVOCs	Naphthalene			ug/L	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16
SVOCs	Nitrobenzene			ug/L	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80
SVOCs	Pentachlorophenol	1		ug/L	< 4.0	NA	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 4.0
SVOCs	Pentachlorophenol (SIM)	1		ug/L	< 1.0	NA	NA	NA	NA	< 1.0	< 1.0	< 0.96	< 0.96	NA	NA	NA	NA	< 1.0	< 1.0	< 0.94	< 0.94	NA	NA	NA	NA	< 1.0	< 1.0	< 0.94
SVOCs	Phenanthrene			ug/L	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16
SVOCs	Phenol			ug/L	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80
SVOCs	Pyrene			ug/L	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA														

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-74 4/12/2021 N	W-74 4/12/2021 FD	W-74 10/12/2021 N	W-74 10/12/2021 FD	W-74 4/8/2022 N	W-74 10/10/2022 N	W-74 4/13/2023 N	W-75 10/9/2019 N	W-75 4/8/2020 N	W-75 10/12/2020 N	W-75 4/12/2021 N	W-75 10/12/2021 N	W-75 4/8/2022 N	W-75 10/10/2022 N	W-75 4/13/2023 N	W-76 10/5/2019 N	W-76 4/14/2020 N	W-76 10/7/2020 N	W-76 10/13/2020 N	W-76 4/9/2021 N	W-76 10/7/2021 N	W-76 4/5/2022 N	W-76 10/6/2022 N	W-76 1/3/2023 N	W-76 4/6/2023 N
Group	Analyte	MCL	note	Units																								
SVOCs	Caprolactam			ug/L	< 4.0	< 4.0	NA	NA	NA	NA	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	< 8.0	< 8	< 4.0	NA	< 4.0	NA	NA	NA	NA	NA	NA
SVOCs	Carbazole			ug/L	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	NA	< 0.80	NA	NA	NA	NA	NA	NA
SVOCs	Chrysene			ug/L	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	NA	< 0.16	NA	NA	NA	NA	NA	NA
SVOCs	Di-n-butyl phthalate			ug/L	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	NA	< 4.0	NA	NA	NA	NA	NA	NA
SVOCs	Di-n-octyl phthalate			ug/L	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	NA	< 4.0	NA	NA	NA	NA	NA	NA
SVOCs	Dibenz(a,h)anthracene			ug/L	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	NA	< 0.16	NA	NA	NA	NA	NA	NA
SVOCs	Dibenzofuran			ug/L	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	NA	< 0.80	NA	NA	NA	NA	NA	NA
SVOCs	Diethyl phthalate			ug/L	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	NA	< 4.0	NA	NA	NA	NA	NA	NA
SVOCs	Dimethyl phthalate			ug/L	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	NA	< 4.0	NA	NA	NA	NA	NA	NA
SVOCs	Fluoranthene			ug/L	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	NA	< 0.16	NA	NA	NA	NA	NA	NA
SVOCs	Fluorene			ug/L	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	NA	< 0.16	NA	NA	NA	NA	NA	NA
SVOCs	Hexachlorobenzene	1		ug/L	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	NA	< 0.80	NA	NA	NA	NA	NA	NA
SVOCs	Hexachlorobutadiene			ug/L	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	NA	< 0.80	NA	NA	NA	NA	NA	NA
SVOCs	Hexachlorocyclopentadiene	50		ug/L	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	< 20	< 20	< 4.0	NA	< 4.0	NA	NA	NA	NA	NA	NA
SVOCs	Hexachloroethane			ug/L	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	NA	< 0.80	NA	NA	NA	NA	NA	NA
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	NA	< 0.16	NA	NA	NA	NA	NA	NA
SVOCs	Isophorone			ug/L	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	NA	< 0.80	NA	NA	NA	NA	NA	NA
SVOCs	N-Nitrosodi-n-propylamine			ug/L	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	NA	< 0.80	NA	NA	NA	NA	NA	NA
SVOCs	N-Nitrosodiphenylamine			ug/L	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	NA	< 0.80	NA	NA	NA	NA	NA	NA
SVOCs	Naphthalene			ug/L	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	NA	< 0.16	NA	NA	NA	NA	NA	NA
SVOCs	Nitrobenzene			ug/L	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	NA	< 0.80	NA	NA	NA	NA	NA	NA
SVOCs	Pentachlorophenol	1		ug/L	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	< 20	< 20	< 4.0	NA	< 4.0	NA	NA	NA	NA	NA	NA
SVOCs	Pentachlorophenol (SIM)	1		ug/L	< 0.95	< 0.94	NA	NA	NA	NA	< 1.0	< 1.0	< 0.95	< 0.95	NA	NA	NA	< 0.98	< 0.98	< 0.95	NA	< 0.95	NA	NA	NA	NA	NA	NA
SVOCs	Phenanthrene			ug/L	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	NA	< 0.16	NA	NA	NA	NA	NA	NA
SVOCs	Phenol			ug/L	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	NA	< 0.80	NA	NA	NA	NA	NA	NA
SVOCs	Pyrene			ug/L	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	NA	< 0.16	NA	NA	NA	NA	NA	NA
VOCs	Acetone			ug/L																								

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

		Well Date Type	MCL	note	Units	W-77 10/6/2019 N	W-77 4/14/2020 N	W-77 4/14/2020 FD	W-77 10/7/2020 N	W-77 10/13/2020 N	W-77 4/7/2021 N	W-77 4/5/2022 N	W-77 10/6/2022 N	W-77 10/6/2022 FD	W-77 1/3/2023 N	W-78 4/4/2023 N	W-78 10/5/2019 N	W-78 4/14/2020 N	W-78 10/7/2020 N	W-78 10/13/2020 N	W-78 4/7/2021 N	W-78 10/6/2021 N	W-78 4/5/2022 N	W-78 10/6/2022 N	W-78 1/5/2023 N	W-78 4/6/2023 N	W-79 10/7/2019 N	W-79 4/13/2020 N	
Group	Analyte	Units	MCL	note	W-77 10/6/2019 N	W-77 4/14/2020 N	W-77 4/14/2020 FD	W-77 10/7/2020 N	W-77 10/13/2020 N	W-77 4/7/2021 N	W-77 4/5/2022 N	W-77 10/6/2022 N	W-77 10/6/2022 FD	W-77 1/3/2023 N	W-78 4/4/2023 N	W-78 10/5/2019 N	W-78 4/14/2020 N	W-78 10/7/2020 N	W-78 10/13/2020 N	W-78 4/7/2021 N	W-78 10/6/2021 N	W-78 4/5/2022 N	W-78 10/6/2022 N	W-78 1/5/2023 N	W-78 4/6/2023 N	W-79 10/7/2019 N	W-79 4/13/2020 N		
Radiological	Alpha particles	pcCi/L	15 *	pCi/L	865	399	441	776	NA	1110	221	358	NA	NA	NA	0##	1.82 #	1.44	NA	0.0827 #	0.166 #	0##	0##	NA	NA	2.99 #	0.312 #		
Radiological	Beta particles	pcCi/L	50 *	pCi/L	111	41.7	42.1	113	NA	101	36.4	62.5	NA	NA	NA	4.12 #	2.97 #	3.29 #	NA	3.78	1.27 #	0##	0##	NA	NA	5.90	5.06		
Radiological	Tritium	pCi/L		pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Radiological	Technetium-99	900	pcCi/L	101	5.10	4.21	9.70	NA	8.38	2.50 #	1.70 #	25.3	7.54 #	NA	0##	0##	0.0509 #	0##	NA	0##	0##	0##	0##	0##	0##	0##	0##		
Radiological	Uranium-233/234	pcCi/L	511	591	619	600	NA	937	268	309	NA	NA	NA	NA	NA	0.0921 #	0.0631 #	NA	NA	0.210 #	0##	0.195	0.0329 #	0##	NA	NA	0.185 #	0.0539 #	
Radiological	Uranium-235/236	pcCi/L	26.0	28.5	32.0	27.7	NA	40.9	17.0	15.8	NA	NA	NA	NA	NA	0.0466 #	0.0946 #	NA	NA	0##	0##	0.138	0.0887 #	NA	NA	0.162 #	0##		
Radiological	Uranium-238	pcCi/L	81.0	88.7	99.1	104	NA	148	44.4	51.6	NA	NA	NA	NA	NA	0.105 #	0.0207 #	NA	NA	0.0350 #	0.0113 #	0.0143 #	0##	NA	NA	0.188 #	0.115 #		
Radiological	Percent Uranium-235	%	4.75	4.75	4.77	3.98	NA	4.11	5.61	4.54	NA	NA	NA	NA	NA	0#	0#	NA	NA	0#	0#	60.0	0#	NA	NA	0#	0#		
Radiological	Uranium-234	ug/L	0.089	0.104	0.111	0.097	NA	0.147	0.0470 J	< 0.0500	0.0390 J	0.0390 J	NA	0.0180 J	< 0.050	< 0.0500	< 0.0500	NA	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	NA	NA	< 0.050	< 0.050	
Radiological	Uranium-235	ug/L	10.1	11.2	12.2	10.9	NA	14.7	5.52	5.85	4.63	4.49	NA	1.52	< 0.070	< 0.0700	0.0103 J	NA	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	NA	NA	< 0.070	< 0.070	
Radiological	Uranium-238	ug/L	237	253	251	264	NA	331	128	138	108	105	NA	38.0	0.0933 J	0.203	0.298	NA	0.222	0.132 J	0.186 J	0.180 J	0.278	0.0807 J	0.0892 J	< 0.200			
Radiological	Total Uranium Isotopes	30	ug/L	247	264	263	275	NA	346	133	144	113	110	NA	39.5	0.0933 J	0.203	0.308	NA	0.222	0.132 J	0.186 J	0.180 J	0.278	NA	0.0807 J	0.0892 J	< 0.200	
Chemical	Fluoride	4	mg/L	9.21	7.39	7.73	NA	14	23.9	14.8	15	NA	NA	11	7.86	13.4	11.3	NA	12.6	8.85	8.92	13.6	13	NA	21	16	2.4	0.323	
Chemical	Nitrate as N	10	mg/L	12	20	19	5.2	NA	3.6	4.9	10	9.1	8.6	NA	4.77	3.5	4.4	3.1	NA	4.0	3.6	3.8	4.4	4.7	NA	3.7	4.0	5.1	
Chemical	Ammonia as N		mg/L	7.11	17	16.8	NA	4.34	3.99	3.66	NA	NA	NA	NA	NA	0.0271	0.0286	NA	0.0207 J	0.0294 J	0.0227 J	0.0219 J	NA	NA	NA	NA	0.0146	0.0099	
Metals	Aluminum	ug/L	750	123 J	114 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1320	1570	NA	NA	NA	NA	NA	NA	NA	NA	NA	878	153 J	
Metals	Antimony	6	ug/L	3.53 J	5.37 J	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.58 J	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.15 J	< 20.0
Metals	Arsenic	10	ug/L	< 30.0	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	
Metals	Barium	2000	ug/L	70.9	86.1	84.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	54.4	54.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	75.4	73.1	
Metals	Beryllium	4	ug/L	< 5.00	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.41 J	< 5.00	
Metals	Cadmium	5	ug/L	< 5.00	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	
Metals	Calcium		ug/L	9350	30400	30200	NA	NA	NA	NA	NA	NA	NA	NA	NA	7500	9460	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11200	17000
Metals	Chromium	100	ug/L	2.55 J	1.68 J	1.74 J	NA	NA	NA	NA	NA	NA	NA	NA	< 10.0	< 10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.86 J	< 10.0	
Metals	Cobalt		ug/L	1.27 J	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	
Metals	Copper	1300	ug/L	10 J	57.7	57.4	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	
Metals	Iron		ug/L	223	120	120	NA	NA	NA	NA	NA	NA	NA	NA	< 100	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100	< 100	
Metals	Lead	15	ug/L	< 20.0	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	
Metals	Magnesium		ug/L	1970	6310	6270	NA	NA	NA	NA	NA	NA	NA	NA	NA	1420	1490	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5490	5310
Metals	Manganese		ug/L	5.83 J	14	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.83 J	< 10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.8	< 10.0
Metals	Mercury	2	ug/L	< 0.200	< 0.200	< 0.200	NA	NA	NA	NA	NA	NA	NA	NA	< 0.200	< 0.200	NA	NA	NA	NA</td									

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-77 10/6/2019 N	W-77 4/14/2020 N	W-77 4/14/2020 FD	W-77 10/7/2020 N	W-77 10/13/2020 N	W-77 4/7/2021 N	W-77 10/6/2021 N	W-77 4/5/2022 N	W-77 10/6/2022 FD	W-77 1/3/2023 N	W-78 4/4/2023 N	W-78 10/5/2019 N	W-78 4/14/2020 N	W-78 10/7/2020 N	W-78 10/13/2020 N	W-78 4/7/2021 N	W-78 10/6/2021 FD	W-78 4/5/2022 N	W-78 10/6/2022 N	W-78 1/5/2023 N	W-78 4/6/2023 N	W-79 10/7/2019 N	W-79 4/13/2020 N
Group	Analyte	MCL	note	Units																					
SVOCs	Caprolactam			ug/L	< 8.0	< 8	< 8	< 4.0	NA	< 4.0	NA	NA	NA	< 8.0	< 8	< 4.0	NA	< 4.0	NA	NA	NA	NA	NA	< 8.0	< 8
SVOCs	Carbazole			ug/L	< 4.0	< 4	< 4	< 0.80	NA	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4
SVOCs	Chrysene			ug/L	< 0.80	< 0.8	< 0.8	< 0.16	NA	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8
SVOCs	Di-n-butyl phthalate			ug/L	< 4.0	< 4	< 4	< 4.0	NA	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4.0	< 4
SVOCs	Di-n-octyl phthalate			ug/L	< 4.0	< 4	< 4	< 4.0	NA	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4.0	< 4
SVOCs	Dibenz(a,h)anthracene			ug/L	< 0.80	< 0.8	< 0.8	< 0.16	NA	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8
SVOCs	Dibenzofuran			ug/L	< 4.0	< 4	< 4	< 0.80	NA	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4
SVOCs	Diethyl phthalate			ug/L	< 4.0	< 4	< 4	< 4.0	NA	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4.0	< 4
SVOCs	Dimethyl phthalate			ug/L	< 4.0	< 4	< 4	< 4.0	NA	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4.0	< 4
SVOCs	Fluoranthene			ug/L	< 0.80	< 0.8	< 0.8	< 0.16	NA	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8
SVOCs	Fluorene			ug/L	< 0.80	< 0.8	< 0.8	< 0.16	NA	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8
SVOCs	Hexachlorobenzene	1		ug/L	< 4.0	< 4	< 4	< 0.80	NA	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4
SVOCs	Hexachlorobutadiene			ug/L	< 4.0	< 4	< 4	< 0.80	NA	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4
SVOCs	Hexachlorocyclopentadiene	50		ug/L	< 20	< 20	< 20	< 4.0	NA	< 4.0	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 20	< 20
SVOCs	Hexachloroethane			ug/L	< 4.0	< 4	< 4	< 0.80	NA	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	< 0.80	< 0.8	< 0.8	< 0.16	NA	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8
SVOCs	Isophorone			ug/L	< 4.0	< 4	< 4	< 0.80	NA	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4
SVOCs	N-Nitrosodi-n-propylamine			ug/L	< 4.0	< 4	< 4	< 0.80	NA	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4
SVOCs	N-Nitrosodiphenylamine			ug/L	< 4.0	< 4	< 4	< 0.80	NA	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4
SVOCs	Naphthalene			ug/L	< 0.80	< 0.8	< 0.8	< 0.16	NA	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8
SVOCs	Nitrobenzene			ug/L	< 4.0	< 4	< 4	< 0.80	NA	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4
SVOCs	Pentachlorophenol	1		ug/L	< 20	< 20	< 20	< 4.0	NA	< 4.0	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 20	< 20
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	< 1.0	NA	< 0.95	NA	NA	NA	NA	NA	< 1.0	< 1.0	< 0.95	NA	NA	NA	NA	NA	NA	NA
SVOCs	Phenanthrene			ug/L	< 0.80	< 0.8	< 0.8	< 0.16	NA	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8
SVOCs	Phenol			ug/L	< 4.0	< 4	< 4	< 0.80	NA	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4
SVOCs	Pyrene			ug/L	< 0.80	< 0.8	< 0.8	< 0.16	NA	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8
VOCs	Acetone			ug/L	< 20	< 20	< 20	< 4.0	NA	< 4.0	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	< 4.0	NA	NA	< 20	< 20	< 20	< 20	< 20
VOCs	Benzene	5		ug/L	< 1.0	< 1	< 1	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	
VOCs	Bromodichloromethane																								

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-79 10/6/2020	W-79 4/6/2021	W-79 10/6/2021	W-79 4/5/2022	W-79 10/5/2022	W-79 1/3/2023	W-79 4/6/2023	W-80 10/6/2019	W-80 4/14/2020	W-80 10/6/2020	W-80 4/6/2021	W-80 10/7/2021	W-80 4/5/2022	W-80 10/5/2022	W-80 1/3/2023	W-80 4/6/2023	W-81 10/8/2019	W-81 4/14/2020	W-81 10/6/2020	W-81 4/6/2021	W-81 10/7/2021	W-81 4/6/2022	W-81 10/5/2022	W-81 4/11/2023	
Group	Analyte	MCL note	Units																									
Radiological	Alpha particles	15 *	pCi/L	0.107 #	0 ##	0.864 #	0.529 #	NA	NA	1.30 #	3.43	0.880 #	0.855 #	0 ##	2.69 #	NA	NA	0 ##	5.29	2.88 #	6.35	0.133 #	0 ##	4.37	NA	NA		
Radiological	Beta particles	50 *	pCi/L	6.14	2.59 #	2.28 #	4.23	NA	NA	7.29	9.42	6.93	5.69	9.20	NA	NA	NA	1.23 #	8.64	3.09 #	2.90 #	5.84	0.877 #	NA	NA			
Radiological	Tritium		pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Radiological	Technetium-99	900	pCi/L	1.98 #	0.340 #	0 ##	2.77 #	0 ##	NA	0 ##	2.56 #	0 ##	0 ##	2.11 #	1.17 #	1.09 #	0 ##	NA	0.145 #	0 ##	0 ##	0.663 #	0.279 #	1.20 #	0 ##	0.951 #	0.475 #	
Radiological	Uranium-233/234		pCi/L	NA	0.0818 #	0.0283 #	0.102 #	NA	NA	0.0802 #	0.154 #	0.167 #	NA	0 ##	0.142 #	0 ##	NA	0.314	0.00840 #	0.349	NA	1.38	0.874	0.910	0.650	NA	0.126 #	
Radiological	Uranium-235/236		pCi/L	NA	0 #	0 ##	0.0468 #	NA	NA	0.152 #	0.0254 #	0.0226 #	NA	0 ##	0.0266 #	NA	NA	0.104 #	0 ##	0.0590 #	NA	0.0324 #	0.0533 #	0.123 #	0 #	NA	0.0391 #	
Radiological	Uranium-238		pCi/L	NA	0 ##	0.0340 #	0 ##	NA	NA	0.0740 #	0.0695 #	0.106 #	NA	0.330 #	0.0345 #	0 #	NA	0.212	0.112 #	0.150 #	NA	0.633	0.477	0.231 #	0.380	NA	0.0404 #	
Radiological	Percent Uranium-235	%	NA	0 #	0 #	NA	NA	0 #	NA	0 #	0 #	NA	NA	0 #	0 #	NA	NA	0 #	NA	0 #	0 #	NA	0 #	0 #	NA	0 #		
Radiological	Uranium-234	ug/L	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	NA	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	NA	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500		
Radiological	Uranium-235	ug/L	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	NA	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	NA	<0.0700	<0.0700	<0.0700	<0.0700	0.0286 J	0.0159 J	0.0166 J	0.0121 J	<0.0700	<0.0700	
Radiological	Uranium-238	ug/L	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	NA	<0.200	0.151 J	0.177 J	0.122 J	0.0963 J	0.106 J	0.114 J	0.222	NA	0.287	0.0728 J	0.393	0.628	2.53	1.41	1.35	0.960	0.504	0.240
Radiological	Total Uranium Isotopes	30	ug/L	<0.200	<0.200	<0.200	<0.200	<0.200	NA	<0.200	0.151 J	0.177 J	0.122 J	0.0963 J	0.106 J	0.114 J	0.222	NA	0.287	0.0728 J	0.393	0.628	2.55	1.42	1.36	0.972	0.504	0.240
Chemical	Fluoride	4	mg/L	0.467	0.253	0.978	1.4	NA	0.50	0.62	1.57	0.121	0.269	0.333	0.282	0.38	NA	0.49	0.11	0.042	0.067	0.154	0.412	0.056 J	0.053 J	<0.10	<0.10	
Chemical	Nitrate as N	10	mg/L	3.8	5.3	3.9	19	4.7	NA	3.9	8.3	16	7.9	18	9.2	8.0	6.3	NA	15	3.1	1.4	1.3	4.5	3.8	4.1	3.7	5.7	3.8
Chemical	Ammonia as N		mg/L	0.0136 J	0.0127 J	0.0166 J	NA	NA	NA	0.0927	0.0158	0.0255 J	0.0137 J	0.0378 J	NA	NA	NA	NA	0.0762	0.381	0.0389 J	0.139	0.0352 J	0.0268 J	NA	NA	NA	
Metals	Aluminum		ug/L	122 J	NA	NA	NA	NA	NA	1210	136 J	265	NA	NA	NA	NA	NA	NA	<200	152 J	123 J	NA	NA	NA	NA	NA	NA	
Metals	Antimony	6	ug/L	<20.0	NA	NA	NA	NA	NA	5.32 J	<20.0	5.09 J	NA	NA	NA	NA	NA	NA	<20.0	<20.0	NA	NA	NA	NA	NA	NA		
Metals	Arsenic	10	ug/L	<30.0	NA	NA	NA	NA	NA	<30.0	<30.0	NA	NA	NA	NA	NA	NA	NA	<30.0	<30.0	NA	NA	NA	NA	NA	NA		
Metals	Barium	2000	ug/L	85.9	NA	NA	NA	NA	NA	124	126	82.7	NA	NA	NA	NA	NA	NA	266	18.1	47.4	NA	NA	NA	NA	NA	NA	
Metals	Beryllium	4	ug/L	<5.00	NA	NA	NA	NA	NA	1.59 J	<5.00	<5.00	NA	NA	NA	NA	NA	NA	<5.00	<5.00	NA	NA	NA	NA	NA	NA		
Metals	Cadmium	5	ug/L	<5.00	NA	NA	NA	NA	NA	<5.00	<5.00	<5.00	NA	NA	NA	NA	NA	NA	<5.00	<5.00	NA	NA	NA	NA	NA	NA		
Metals	Calcium		ug/L	15600	NA	NA	NA	NA	NA	17000	22900	17500	NA	NA	NA	NA	NA	NA	6000	14400	29700	NA	NA	NA	NA	NA	NA	
Metals	Chromium	100	ug/L	<10.0	NA	NA	NA	NA	NA	<10.0	<10.0	1.24 J	NA	NA	NA	NA	NA	NA	<10.0	1.79 J	<10.0	NA	NA	NA	NA	NA	NA	
Metals	Cobalt		ug/L	<5.00	NA	NA	NA	NA	NA	6.06	1.47 J	<5.00	NA	NA	NA	NA	NA	NA	10.3	<5.00	<5.00	NA	NA	NA	NA	NA	NA	
Metals	Copper	1300	ug/L	<20.0	NA	NA	NA	NA	NA	<20.0	<20.0	<20.0	NA	NA	NA	NA	NA	NA	<20.0	<20.0	<20.0	NA	NA	NA	NA	NA	NA	
Metals	Iron		ug/L	<100	NA	NA	NA	NA	NA	230	<100	83.4 J	NA	NA	NA	NA	NA	NA	18800	<100	62 J	NA	NA	NA	NA	NA	NA	
Metals	Lead	15	ug/L	<20.0	NA	NA	NA	NA	NA	<20.0	<20.0	<20.0	NA	NA	NA	NA	NA	NA	<20.0	<20.0	<20.0	NA	NA	NA	NA	NA	NA	
Metals	Magnesium		ug/L	515																								

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Well			W-79	W-79	W-79	W-79	W-79	W-79	W-79	W-80	W-80	W-80	W-80	W-80	W-80	W-81	W-81	W-81	W-81	W-81	W-81	W-81	W-81	W-81				
Group	Analyte	MCL	note	Units	10/6/2020	4/6/2021	10/6/2021	4/5/2022	10/5/2022	1/3/2023	4/6/2023	10/6/2019	4/14/2020	10/6/2020	4/6/2021	10/7/2021	4/5/2022	10/5/2022	1/3/2023	4/6/2023	10/8/2019	4/14/2020	10/6/2020	4/6/2021	10/7/2021	4/6/2022	10/5/2022	
SVOCs	Caprolactam		ug/L	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	
SVOCs	Carbazole		ug/L	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	
SVOCs	Chrysene		ug/L	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	
SVOCs	Di-n-butyl phthalate		ug/L	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	
SVOCs	Di-n-octyl phthalate		ug/L	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	
SVOCs	Dibenz(a,h)anthracene		ug/L	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	
SVOCs	Dibenzofuran		ug/L	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	
SVOCs	Diethyl phthalate		ug/L	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	
SVOCs	Dimethyl phthalate		ug/L	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	
SVOCs	Fluoranthene		ug/L	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	
SVOCs	Fluorene		ug/L	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	
SVOCs	Hexachlorobenzene	1	ug/L	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	
SVOCs	Hexachlorobutadiene		ug/L	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	
SVOCs	Hexachlorocyclopentadiene	50	ug/L	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	
SVOCs	Hexachloroethane		ug/L	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	
SVOCs	Indeno(1,2,3-cd)pyrene		ug/L	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	
SVOCs	Isophorone		ug/L	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	
SVOCs	N-Nitrosodi-n-propylamine		ug/L	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	
SVOCs	N-Nitrosodiphenylamine		ug/L	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	
SVOCs	Naphthalene		ug/L	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	
SVOCs	Nitrobenzene		ug/L	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	
SVOCs	Pentachlorophenol	1	ug/L	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	
SVOCs	Pentachlorophenol (SIM)	1	ug/L	< 1.0	< 0.95	NA	NA	NA	NA	NA	< 1.0	< 1.0	< 0.94	< 0.94	NA	NA	NA	NA	NA	< 0.99	< 0.96	NA	NA	NA	NA	NA	NA	
SVOCs	Phenanthrene		ug/L	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	
SVOCs	Phenol		ug/L	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	
SVOCs	Pyrene		ug/L	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	
VOCs	Acetone		ug/L	< 20	< 20	< 20	< 20	< 20	< 20	NA	< 20	< 20	< 20	< 20	NA	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	
VOCs	Benzene	5	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Bromodichloromethane		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	2.8	< 1.0	7.7	1.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Bromoform		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	3.9	3.8	< 1.0	280	58	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.8	12	6.3	17	12	< 1.0
VOCs	Bromomethane		ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
VOCs	2-Butanone		ug/L	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
VOCs	Carbon disulfide		ug/L	< 1.0	&																							

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-82 10/8/2019	W-82 4/14/2020	W-82 10/6/2020	W-82 4/6/2021	W-82 10/7/2021	W-82 4/6/2022	W-82 10/5/2022	W-82 4/5/2023	W-83 10/8/2019	W-83 4/13/2020	W-83 10/6/2020	W-83 4/6/2021	W-83 10/7/2021	W-83 4/6/2022	W-83 10/5/2022	W-83 4/5/2023	W-84 10/8/2019	W-84 4/13/2020	W-84 10/6/2020	W-84 4/6/2021	W-84 10/7/2021	W-84 4/6/2022	W-84 10/4/2022	W-84 4/5/2023	W-85 10/23/2019		
Group	Analyte	MCL note	Units																											
Radiological	Alpha particles	15 *	pCi/L	1.37 #	2.27 #	1.17 #	2.66	1.76 #	0 ##	NA	NA	0.300 #	1.90 #	2.98 #	0 ##	1.50 #	0.941 #	NA	NA	0 ##	4.27	0 ##	0.295 #	0 ##	0 ##	NA	NA	1.42 #		
Radiological	Beta particles	50 *	pCi/L	4.82	6.49	2.49 #	0.370 #	1.51 #	2.25 #	NA	NA	2.75 #	3.68 #	0.568 #	0.207 #	0.822 #	3.70 #	NA	NA	3.97 #	6.12	3.88	2.14 #	0.282 #	2.51 #	NA	NA	1.23 #		
Radiological	Tritium		pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Radiological	Technetium-99	900	pCi/L	0 ##	0 ##	0 ##	0.0115 #	1.72 #	0 ##	1.01 #	2.04 #	0.914 #	0 ##	0 ##	0.692 #	1.28 #	0 ##	0.616 #	1.95 #	0 ##	0 ##	0.481 #	0.165 #	1.48 #	0 ##	0 ##	2.13 #	19.3 #		
Radiological	Uranium-233/234		pCi/L	0.0453 #	0.0344 #	NA	0 ##	0 ##	0.173 #	NA	NA	0.603	0.0991 #	NA	0 ##	0.130 #	NA	NA	0.0661 #	0.0943 #	NA	0 ##	0 ##	0.0595 #	NA	NA	0.0494 #	NA	NA	
Radiological	Uranium-235/236		pCi/L	0 #	0.00931 #	NA	0.0729 #	0.0551 #	0.00942 #	NA	NA	0.161 #	0.0149 #	NA	0 #	0.0143 #	0.0175 #	NA	NA	0.0491 #	0.00983 #	NA	0 ##	0.0486 #	0.0225 #	NA	NA	0.0621 #	NA	NA
Radiological	Uranium-238		pCi/L	0.140 #	0.00738 #	NA	0.00134 #	0 ##	0.0846 #	NA	NA	0 ##	0.0242 #	NA	0 ##	0.00330 #	0.0957 #	NA	NA	0 ##	0.0161 #	NA	0.0842 #	0.0434 #	0.139 #	NA	NA	0.0502 #	NA	NA
Radiological	Percent Uranium-235	%	0 #	0 #	NA	0 #	0 #	NA	NA	0 #	NA	0 #	NA	0 #	NA	0 #	NA	NA	0 #	NA	0 #	NA	0 #	NA	NA	0 #	NA	NA		
Radiological	Uranium-234	ug/L	< 0.050	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500			
Radiological	Uranium-235	ug/L	< 0.070	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700			
Radiological	Uranium-238	ug/L	0.151 J	< 0.200	0.0923 J	< 0.200	< 0.200	0.254	0.128 J	0.209	< 0.200	< 0.200	0.0837 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.0704 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200		
Radiological	Total Uranium Isotopes	30	ug/L	0.151 J	< 0.200	0.0923 J	< 0.200	< 0.200	0.254	0.128 J	0.209	< 0.200	0.0837 J	< 0.200	< 0.200	< 0.200	< 0.200	0.0704 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200			
Chemical	Fluoride	4	mg/L	0.046	0.041	0.051 J	0.0240 J	0.064 J	< 0.10	< 0.10	0.079	0.104	0.126	0.0590 J	0.115	< 0.10	0.34	< 0.10	0.087	0.107	0.077 J	0.0580 J	0.092 J	< 0.10	< 0.10	< 0.10	0.23	0.039		
Chemical	Nitrate as N	10	mg/L	0.99	1.8	3.0	1.8	0.53	1.4	0.87	0.76	0.8	0.69	1.1	0.85	0.50	1.0	1.1	< 0.20	< 0.02	< 0.02	0.065	< 0.20	0.091	< 0.20	< 0.020	0.089	0.039		
Chemical	Ammonia as N		mg/L	0.0275	0.0209	0.0215 J	0.0134 J	0.0221 J	NA	NA	0.0099	0.0099	0.0289 J	0.00910 J	0.0243 J	NA	NA	NA	0.0119	0.0202	0.0207 J	0.00850 J	0.0236 J	NA	NA	NA	0.03	NA		
Metals	Aluminum		ug/L	107 J	85 J	< 200	NA	NA	NA	NA	< 200	< 200	108 J	NA	NA	NA	NA	NA	< 200	< 200	< 200	NA	NA	NA	NA	NA	NA	< 200	NA	
Metals	Antimony	6	ug/L	7.19 J	< 20.0	6.36 J	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	4.83 J	NA	NA	NA	NA	NA	NA	6.48 J	NA	
Metals	Arsenic	10	ug/L	< 30.0	< 30.0	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	7.94 J	NA		
Metals	Barium	2000	ug/L	162	188	211	NA	NA	NA	NA	NA	114	96.3	126	NA	NA	NA	NA	NA	215	234	235	NA	NA	NA	NA	NA	NA	236	NA
Metals	Beryllium	4	ug/L	< 5.00	< 5.00	< 5.00	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	< 5.00	NA	
Metals	Cadmium	5	ug/L	< 5.00	< 5.00	< 5.00	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	< 5.00	NA	
Metals	Calcium		ug/L	1520	6720	2640	NA	NA	NA	NA	4120	6020	8230	NA	NA	NA	NA	NA	5960	5380	3390	NA	NA	NA	NA	NA	NA	9410	NA	
Metals	Chromium	100	ug/L	< 10.0	< 10.0	< 10.0	NA	NA	NA	NA	< 10.0	< 10.0	NA	NA	NA	NA	NA	NA	< 10.0	< 10.0	< 10.0	NA	NA	NA	NA	NA	NA	< 10.0	NA	
Metals	Cobalt		ug/L	17.3	8.17	14.7	NA	NA	NA	NA	10	3.65 J	5.99	NA	NA	NA														

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Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-82 10/8/2019	W-82 4/14/2020	W-82 10/6/2020	W-82 4/6/2021	W-82 10/7/2021	W-82 4/6/2022	W-82 10/5/2022	W-82 4/5/2023	W-83 10/8/2019	W-83 4/13/2020	W-83 10/6/2020	W-83 4/6/2021	W-83 10/7/2021	W-83 4/6/2022	W-83 10/5/2022	W-83 4/5/2023	W-84 10/8/2019	W-84 4/13/2020	W-84 10/6/2020	W-84 4/6/2021	W-84 10/7/2021	W-84 4/6/2022	W-84 10/4/2022	W-84 4/5/2023	W-85 10/23/2019	
Group	Analyte	MCL	note	Units																								
SVOCs	Caprolactam			ug/L	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	< 8.0	
SVOCs	Carbazole			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	
SVOCs	Chrysene			ug/L	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	
SVOCs	Di-n-butyl phthalate			ug/L	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	
SVOCs	Di-n-octyl phthalate			ug/L	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	
SVOCs	Dibenz(a,h)anthracene			ug/L	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	
SVOCs	Dibenzofuran			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	
SVOCs	Diethyl phthalate			ug/L	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	
SVOCs	Dimethyl phthalate			ug/L	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	
SVOCs	Fluoranthene			ug/L	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	
SVOCs	Fluorene			ug/L	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	
SVOCs	Hexachlorobenzene	1		ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	
SVOCs	Hexachlorobutadiene			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	
SVOCs	Hexachlorocyclopentadiene	50		ug/L	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	
SVOCs	Hexachloroethane			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	
SVOCs	Isophorone			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	
SVOCs	N-Nitrosodi-n-propylamine			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	
SVOCs	N-Nitrosodiphenylamine			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	
SVOCs	Naphthalene			ug/L	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	
SVOCs	Nitrobenzene			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	
SVOCs	Pentachlorophenol	1		ug/L	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	< 0.99	< 0.95	NA	NA	NA	< 0.96	< 0.96	NA	NA	NA	NA	NA	< 0.98	< 0.95	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Phenanthrene			ug/L	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	
SVOCs	Phenol			ug/L	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	
SVOCs	Pyrene			ug/L	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	&lt								

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Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-85 4/28/2020	W-85 10/23/2020	W-85 4/22/2021	W-85 10/22/2021	W-85 4/25/2022	W-85 10/19/2022	W-86 4/19/2023	W-86 10/23/2019	W-86 4/28/2020	W-86 10/23/2020	W-86 4/22/2021	W-86 10/22/2021	W-86 4/25/2022	W-86 10/19/2022	W-86 4/19/2023	W-87 10/2/2019	W-87 4/15/2020	W-87 10/14/2020	W-87 4/15/2021	W-87 10/13/2021	W-87 4/11/2022	W-87 10/11/2022	W-87 4/12/2023	W-88 10/22/2019	
Group	Analyte	MCL note	Units																									
Radiological	Alpha particles	15 *	pCi/L	1.74 #	0.493 #	1.26 #	2.78 #	1.26 #	NA	NA	0.317 #	1.90 #	0.214 #	0.956 #	2.40 #	0 ##	0.180 #	NA	NA	1.68 #	3.87	0 ##	4.42	2.81	0.408 #	NA	NA	2.50 #
Radiological	Beta particles	50 *	pCi/L	3.47	0.347 #	3.55 #	1.85 #	3.11 #	NA	NA	7.12	0.0942 #	0.0401 #	2.55 #	0.663 #	1.60 #	NA	NA	4.92	1.57 #	0.453 #	1.01 #	9.79	4.06 #	NA	NA	2.05 #	
Radiological	Tritium		pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA													
Radiological	Technetium-99	900	pCi/L	0 ##	0.599 #	1.98 #	0 ##	0.582 #	0 ##	1.24 #	8.88 #	0 ##	0 ##	1.16 #	0.664 #	0 ##	0.347 #	0 ##	0.473 #	0.787 #	0 ##	0 ##	1.05 #	0.437 #	1.14 #	0 ##	6.34 #	
Radiological	Uranium-233/234		pCi/L	0 ##	NA	0 ##	0 ##	0 ##	NA	0.179 #	0.125 #	0.0841 #	NA	NA	0 ##	0 ##	0.0372 #	NA	0.118 #	0.175 #	0.0251 #	NA	0.00879 #	0.0823 #	0.242 #	NA	0.0595 #	0.107 #
Radiological	Uranium-235/236		pCi/L	0.0349 #	NA	0 #	0 ##	0.133 #	NA	0.171 #	0.130 #	0.00967 #	NA	NA	0 #	0 ##	0 ##	NA	0 ##	0.00163 #	0 ##	NA	0 #	0.0296 #	0 ##	NA	0 ##	0.0449 #
Radiological	Uranium-238		pCi/L	0.00884 #	NA	0.0921 #	0 ##	0.0794 #	NA	0.0920 #	0.137 #	0.0315 #	NA	NA	0 ##	0.147 #	0.142 #	NA	0.0456 #	0.151 #	0 ##	NA	0.0853 #	0.0689 #	0.183 #	NA	0.0827 #	0.185 #
Radiological	Percent Uranium-235	%	ug/L	0 #	NA	0 #	0 #	NA	0 #	0 #	NA	0 #	0 #	NA	0 #	0 #	NA	0 #	0 #	NA	0 #	0 #	NA	0 #	0 #	NA	0 #	0 #
Radiological	Uranium-234		ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500		
Radiological	Uranium-235		ug/L	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700		
Radiological	Uranium-238		ug/L	< 0.200	< 0.200	0.131 J	0.0781 J	0.106 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.0835 J	< 0.200	< 0.200	< 0.200	< 0.200	0.457	0.139 J	0.123 J	0.351	0.445	0.611	0.503	0.180 J	< 0.200	
Radiological	Total Uranium Isotopes	30	ug/L	< 0.200	< 0.200	0.131 J	0.0781 J	0.106 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.0835 J	< 0.200	< 0.200	< 0.200	< 0.200	0.457	0.139 J	0.123 J	0.351	0.445	0.611	0.503	0.180 J	< 0.200	
Chemical	Fluoride	4	mg/L	0.217	0.183	0.190	0.152	0.23	0.12	0.511	0.473	0.455	0.459	0.432	0.377	0.52	0.44	0.40	0.278	0.239	0.133	0.115	0.117	0.14	< 0.10	< 0.10	0.012	
Chemical	Nitrate as N	10	mg/L	0.023	< 0.020	< 0.020	< 0.020	< 0.020	0.14	0.062	0.028	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	0.045	0.04	0.097	0.19	0.085	0.36	0.46	4.5		
Chemical	Ammonia as N		mg/L	0.129	0.0619 J	0.0727 J	0.127	NA	NA	0.0073	0.0137	0.0173 J	0.0168 J	0.168	0.0166 J	NA	NA	NA	0.0127	0.0306	0.031 J	0.0282 J	0.027 J	NA	NA	NA	0.0127	
Metals	Aluminum		ug/L	< 200	NA	NA	NA	NA	NA	419	215	NA	NA	NA	NA	NA	NA	NA	382	79.4 J	NA	NA	NA	NA	NA	NA	< 200	
Metals	Antimony	6	ug/L	< 20.0	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	5.21 J	< 20.0	NA	NA	NA	NA	NA	NA	< 20.0	
Metals	Arsenic	10	ug/L	< 30.0	NA	NA	NA	NA	NA	5.58 J	< 30.0	NA	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	< 30.0	
Metals	Barium	2000	ug/L	189	NA	NA	NA	NA	NA	101	78.9	NA	NA	NA	NA	NA	NA	NA	89.8	44.4	NA	NA	NA	NA	NA	NA	90.5	
Metals	Beryllium	4	ug/L	< 5.00	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	< 5.00	
Metals	Cadmium	5	ug/L	< 5.00	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	< 5.00	
Metals	Calcium		ug/L	7430	NA	NA	NA	NA	NA	2060	1000	NA	NA	NA	NA	NA	NA	NA	5440	3160	NA	NA	NA	NA	NA	NA	5450	
Metals	Chromium	100	ug/L	1.02 J	NA	NA	NA	NA	NA	< 10.0	1.26 J	NA	NA	NA	NA	NA	NA	NA	1.02 J	< 10.0	NA	NA	NA	NA	NA	NA	< 10.0	
Metals	Cobalt		ug/L	< 5.00	NA	NA	NA	NA	NA	3.99 J	2.75 J	NA	NA	NA	NA	NA	NA	NA	4.87 J	1.65 J	NA	NA	NA	NA	NA	NA	1.08 J	
Metals	Copper	1300	ug/L	< 20.0	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	< 20.0	
Metals	Iron		ug/L	21400	NA																							

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-85 4/28/2020 N	W-85 10/23/2020 N	W-85 4/22/2021 N	W-85 10/22/2021 N	W-85 4/25/2022 N	W-85 10/19/2022 N	W-86 4/19/2023 N	W-86 10/23/2019 N	W-86 4/28/2020 N	W-86 10/23/2020 FD	W-86 4/22/2021 N	W-86 10/22/2021 N	W-86 4/25/2022 N	W-86 10/19/2022 N	W-87 4/19/2023 N	W-87 10/2/2019 N	W-87 4/15/2020 N	W-87 10/14/2020 N	W-87 4/15/2021 N	W-87 10/13/2021 N	W-87 4/11/2022 N	W-87 10/11/2022 N	W-87 4/12/2023 N	W-88 10/22/2019 N
Group	Analyte	MCL	note	Units																						
SVOCs	Caprolactam			ug/L	< 8	< 4.0	< 4.0	NA	NA	NA	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	< 8.0
SVOCs	Carbazole			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0
SVOCs	Chrysene			ug/L	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80
SVOCs	Di-n-butyl phthalate			ug/L	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0
SVOCs	Di-n-octyl phthalate			ug/L	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0
SVOCs	Dibenz(a,h)anthracene			ug/L	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80
SVOCs	Dibenzofuran			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0
SVOCs	Diethyl phthalate			ug/L	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0
SVOCs	Dimethyl phthalate			ug/L	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0
SVOCs	Fluoranthene			ug/L	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80
SVOCs	Fluorene			ug/L	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80
SVOCs	Hexachlorobenzene	1		ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0
SVOCs	Hexachlorobutadiene			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0
SVOCs	Hexachlorocyclopentadiene	50		ug/L	< 20	< 4.0	< 4.0	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20
SVOCs	Hexachloroethane			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80
SVOCs	Isophorone			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0
SVOCs	N-Nitrosodi-n-propylamine			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0
SVOCs	N-Nitrosodiphenylamine			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0
SVOCs	Naphthalene			ug/L	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80
SVOCs	Nitrobenzene			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0
SVOCs	Pentachlorophenol	1		ug/L	< 20	< 4.0	< 4.0	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	< 1.0
SVOCs	Phenanthrene			ug/L	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80
SVOCs	Phenol			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0
SVOCs	Pyrene			ug/L	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80
VOCs	Acetone																									

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-88 4/17/2020	W-88 10/19/2020	W-88 4/21/2021	W-88 10/21/2021	W-88 4/15/2022	W-88 10/18/2022	W-88 4/18/2023	W-89 10/22/2019	W-89 4/17/2020	W-89 10/19/2020	W-89 4/21/2021	W-89 10/21/2021	W-89 4/15/2022	W-89 10/18/2022	W-89 4/18/2023	W-89 FD	W-90 10/22/2019	W-90 4/17/2020	W-90 10/20/2020	W-90 4/20/2021	W-90 10/20/2021	W-90 4/18/2022	W-90 10/18/2022	W-90 4/17/2023	W-91 4/22/2020	
Group	Analyte	MCL note	Units																										
Radiological	Alpha particles	15 *	pCi/L	3.63	0 ##	3.35 #	0.593 #	0 ##	NA	NA	0.498 #	1.61 #	1.02 #	0.330 #	0.991 #	2.37 #	NA	NA	NA	0.889 #	3.85	1.19 #	2.04 #	0.419 #	1.72 #	NA	NA	1.84 #	
Radiological	Beta particles	50 *	pCi/L	4.16 #	0.984 #	3.64 #	0.117 #	1.92 #	NA	NA	0 ##	1.25 #	0.115 #	2.67 #	2.99 #	0 ##	NA	NA	NA	23.1	2.69 #	0.143 #	2.37 #	2.13 #	0 ##	NA	NA	4.24 #	
Radiological	Tritium		pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA														
Radiological	Technetium-99	900	pCi/L	1.15 #	1.15 #	1.42 #	1.74 #	2.08 #	1.33 #	0 ##	27.5 #	0 ##	0.647 #	0 ##	0.544 #	2.06 #	1.89 #	0 ##	0 ##	6.68 #	0 ##	0.404 #	0 ##	0.185 #	1.92 #	3.48	0.103 #	0.624 #	
Radiological	Uranium-233/234		pCi/L	0.0393 #	NA	0 ##	0 ##	0 ##	NA	0.0699 #	0.209 #	0 ##	NA	0 ##	0.107 #	0.0284 #	NA	0.0593 #	0 ##	0.0370 #	0 ##	NA	0 ##	0 ##	0.0292 #	NA	0.134 #	0.0885 #	
Radiological	Uranium-235/236		pCi/L	0 ##	NA	0.0337 #	0.0772 #	0 #	NA	0 ##	0.0379 #	NA	0.0326 #	0 ##	0.0583 #	NA	0.102 #	0.0399 #	0.0653 #	0 ##	NA	0 ##	0 ##	0 ##	0.103 #	NA	0.0485 #	0.0566 #	
Radiological	Uranium-238		pCi/L	0 ##	NA	0 ##	0 ##	0.0969 #	NA	0 ##	0 ##	NA	0 ##	0.0119 #	0 ##	NA	0.0688 #	0 #	0 ##	0 ##	NA	0.0976 #	0 ##	0 ##	0.0732 #	NA	0 ##	0.0532 #	
Radiological	Percent Uranium-235	%	ug/L	0 #	NA	0 #	0 #	NA	0 #	0 #	NA	0 #	0 #	NA	0 #	0 #	NA	0 #	0 #	NA	0 #	0 #	NA	0 #	0 #	NA	0 #	0 #	
Radiological	Uranium-234		ug/L	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500		
Radiological	Uranium-235		ug/L	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700		
Radiological	Uranium-238		ug/L	<0.200	<0.200	0.108 J	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.0916 J	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	
Radiological	Total Uranium Isotopes	30	ug/L	<0.200	<0.200	0.108 J	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.067 J	<0.10	0.011	<0.1	0.0170 J	<0.10	0.039	<0.1	0.0160 J	0.013 J	<0.10	<0.10	<0.10	0.033
Chemical	Fluoride	4	mg/L	<0.1	<0.1	0.0220 J	0.034 J	<0.10	<0.10	0.011	0.001	<0.1	0.0170 J	<0.10	0.067 J	<0.10	0.0170 J	<0.10	0.039	<0.1	0.1	<0.10	0.0160 J	0.013 J	<0.10	<0.10	<0.10	0.033	
Chemical	Nitrate as N	10	mg/L	4.3	4.2	3.5	3.5	3.2	2.5	2.5	2.7	2.3	2.2	2.3	2.5	2.2	2.3	2.5	2.2	2.3	1.4	2.5	1.7	2.8	2.7	1.9	<0.020	0.34	
Chemical	Ammonia as N		mg/L	0.0157	0.0322 J	0.00640 J	0.0194 J	NA	NA	0.0132	0.0336	0.0176 J	0.00760 J	0.019 J	NA	NA	NA	NA	NA	NA	0.0147	0.0174	0.0456 J	0.0204 J	0.0165 J	NA	NA	NA	0.021
Metals	Aluminum		ug/L	<200	NA	NA	NA	NA	NA	<200	<200	NA	NA	NA	NA	NA	NA	NA	NA	<200	<200	NA	NA	NA	NA	NA	NA	<200	
Metals	Antimony	6	ug/L	<20.0	NA	NA	NA	NA	NA	<20.0	<20.0	NA	NA	NA	NA	NA	NA	NA	NA	<20.0	<20.0	NA	NA	NA	NA	NA	NA	<20.0	
Metals	Arsenic	10	ug/L	<30.0	NA	NA	NA	NA	NA	<30.0	<30.0	NA	NA	NA	NA	NA	NA	NA	NA	<30.0	<30.0	NA	NA	NA	NA	NA	NA	<30.0	
Metals	Barium	2000	ug/L	96	NA	NA	NA	NA	NA	94	83.4	NA	NA	NA	NA	NA	NA	NA	NA	101	92.7	NA	NA	NA	NA	NA	NA	126	
Metals	Beryllium	4	ug/L	<5.00	NA	NA	NA	NA	NA	<5.00	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	<5.00	<5.00	NA	NA	NA	NA	NA	NA	<5.00	
Metals	Cadmium	5	ug/L	<5.00	NA	NA	NA	NA	NA	<5.00	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	<5.00	<5.00	NA	NA	NA	NA	NA	NA	<5.00	
Metals	Calcium		ug/L	5280	NA	NA	NA	NA	NA	4380	3190	NA	NA	NA	NA	NA	NA	NA	NA	3540	3030	NA	NA	NA	NA	NA	NA	7050	
Metals	Chromium	100	ug/L	<10.0	NA	NA	NA	NA	NA	2.85 J	3.76 J	NA	NA	NA	NA	NA	NA	NA	NA	<10.0	<10.0	NA	NA	NA	NA	NA	NA	4.15 J	
Metals	Cobalt		ug/L	<5.00	NA	NA	NA	NA	NA	1.08 J	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	1.62 J	1.17 J	NA	NA	NA	NA	NA	NA	2.73 J	
Metals	Copper	1300	ug/L	<20.0	NA	NA	NA	NA	NA	<20.0	<20.0	NA	NA	NA	NA	NA	NA	NA	NA	<20.0	<20.0	NA	NA	NA	NA	NA	NA	<20.0	
Met																													

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-88 4/17/2020 N	W-88 10/19/2020 N	W-88 4/21/2021 N	W-88 10/21/2021 N	W-88 4/15/2022 N	W-88 10/18/2022 N	W-88 4/18/2023 N	W-89 10/22/2019 N	W-89 4/17/2020 N	W-89 10/19/2020 N	W-89 4/21/2021 N	W-89 10/21/2021 N	W-89 4/15/2022 N	W-89 10/18/2022 N	W-89 4/18/2023 N	W-89 FD	W-90 10/22/2019 N	W-90 4/17/2020 N	W-90 10/20/2020 N	W-90 4/20/2021 N	W-90 10/20/2021 N	W-90 4/18/2022 N	W-90 10/18/2022 N	W-90 4/17/2023 N	W-91 4/22/2020 N	
Group	Analyte	MCL	note	Units																								
SVOCs	Caprolactam			ug/L	< 8	< 4.0	< 4.0	NA	NA	NA	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	< 8	
SVOCs	Carbazole			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	
SVOCs	Chrysene			ug/L	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	
SVOCs	Di-n-butyl phthalate			ug/L	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	
SVOCs	Di-n-octyl phthalate			ug/L	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	
SVOCs	Dibenz(a,h)anthracene			ug/L	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	
SVOCs	Dibenzofuran			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	
SVOCs	Diethyl phthalate			ug/L	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	
SVOCs	Dimethyl phthalate			ug/L	< 4	< 4.0	< 4.0	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	< 4	
SVOCs	Fluoranthene			ug/L	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	
SVOCs	Fluorene			ug/L	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	
SVOCs	Hexachlorobenzene	1		ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	
SVOCs	Hexachlorobutadiene			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	
SVOCs	Hexachlorocyclopentadiene	50		ug/L	< 20	< 4.0	< 4.0	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	
SVOCs	Hexachloroethane			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	
SVOCs	Isophorone			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	
SVOCs	N-Nitrosodi-n-propylamine			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	
SVOCs	N-Nitrosodiphenylamine			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	
SVOCs	Naphthalene			ug/L	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	
SVOCs	Nitrobenzene			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	
SVOCs	Pentachlorophenol	1		ug/L	< 20	< 4.0	< 4.0	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	< 20	
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	< 0.97	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	< 1.0	< 1.0	< 0.95	< 0.95	NA	NA	NA	NA	< 1.0	
SVOCs	Phenanthrene			ug/L	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	< 0.8	
SVOCs	Phenol			ug/L	< 4	< 0.80	< 0.80	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	< 4	
SVOCs	Pyrene			ug/L	< 0.8	< 0.16	< 0.16	NA	NA	NA	< 0.80	<																

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
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			Well Date Type	W-91 10/22/2020	W-91 4/20/2021	W-91 10/20/2021	W-91 4/18/2022	W-91 4/17/2023	W-92 10/10/2019	W-92 4/27/2020	W-92 10/26/2020	W-92 4/21/2021	W-92 10/22/2021	W-92 4/21/2022	W-92 10/19/2022	W-92 4/20/2023	W-93 10/6/2019	W-93 4/14/2020	W-93 10/7/2020	W-93 10/13/2020	W-93 4/7/2021	W-93 10/6/2021	W-93 4/5/2022	W-93 10/6/2022	W-93 1/3/2023	W-93 4/6/2023	W-94 10/15/2019		
Group	Analyte	MCL note	Units																										
Radiological	Alpha particles	15 *	pCi/L	0.262 #	2.12 #	0 ##	1.70 #	NA	1.58 #	0.372 #	0 ##	1.94 #	1.90 #	3.35	0	NA	NA	3.06	1.12 #	0.885 #	NA	1.29 #	2.17 #	0 ##	NA	NA	NA	1.14 #	
Radiological	Beta particles	50 *	pCi/L	4.15 #	5.13	0 ##	2.20 #	NA	3.78 #	2.51 #	1.63 #	2.70 #	4.59	0.885 #	1.18 #	NA	NA	8.18	3.82 #	1.74 #	NA	4.16	3.21 #	2.99 #	NA	NA	NA	2.48 #	
Radiological	Tritium		pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Radiological	Technetium-99	900	pCi/L	0 ##	0.186 #	0.352 #	1.47 #	0 ##	0.249 #	1.99 #	1.93 #	3.40 #	2.76 #	2.58	0.800 #	2.56	0 ##	0 ##	1.82 #	NA	0 ##	0 ##	1.33 #	0 ##	NA	0.0508 #	20.4 #		
Radiological	Uranium-233/234		pCi/L	NA	0 ##	0 ##	0.0179 #	0.0426 #	0.0370 #	0 ##	NA	0 ##	0.0378 #	0 ##	NA	0 ##	0.115 #	0 ##	NA	NA	0.163 #	0.264	0 ##	NA	NA	NA	1.18	0.0614 #	
Radiological	Uranium-235/236		pCi/L	NA	0 ##	0 ##	0.139 #	0.0454 #	0 ##	0.0378 #	0.0249 #	NA	0 ##	0 ##	0.0395 #	NA	0.0446 #	0.0644 #	0.0396 #	NA	NA	0.0547 #	0.101 #	0 ##	NA	NA	NA	0.0467 #	0 ##
Radiological	Uranium-238		pCi/L	NA	0 ##	0 ##	0.136	0 ##	0.0765 #	0 ##	0.0296 #	NA	0 ##	0 ##	0.0741 #	NA	0.229 #	0.0900 #	0.0238 #	NA	NA	0.0885 #	0.0520 #	0.0125 #	NA	NA	0 ##	0.0262 #	
Radiological	Percent Uranium-235	%	NA	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	NA	0 #	0 #	0 #	NA	0 #	0 #	0 #		
Radiological	Uranium-234	ug/L	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500			
Radiological	Uranium-235	ug/L	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	0.0177 J			
Radiological	Uranium-238	ug/L	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.429			
Radiological	Total Uranium Isotopes	30	ug/L	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.447			
Chemical	Fluoride	4	mg/L	<0.1	0.0140 J	0.014 J	<0.10	<0.10	0.099	0.1	0.099	0.108	0.0950 J	0.12	0.15	0.043	0.017	0.033 J	0.0220 J	0.036 J	<0.10	NA	0.22	<0.10	0.043				
Chemical	Nitrate as N	10	mg/L	1.1	2.0	1.2	0.43	1.3	0.029	<0.02	<0.02	0.076	0.068	<0.020	0.12	0.068	<0.020	5.3	4.6	4.4	NA	4.5	4.9	5.4	4.6	5.5	<0.020		
Chemical	Ammonia as N		mg/L	0.0115 J	0.0312 J	0.0174 J	NA	NA	3.19	4.11	4.06	4.84	4.01	4.39	NA	NA	0.0324	0.0139	NA	0.0253 J	0.0258 J	0.0174 J	NA	NA	NA	NA	0.246		
Metals	Aluminum		ug/L	NA	NA	NA	NA	NA	<200	<200	<200	NA	NA	NA	NA	NA	<200	<200	NA	NA	NA	NA	NA	NA	NA	<200			
Metals	Antimony	6	ug/L	NA	NA	NA	NA	NA	<20.0	<20.0	<20.0	NA	NA	NA	NA	NA	4.77 J	<20.0	NA	NA	NA	NA	NA	NA	NA	<20.0			
Metals	Arsenic	10	ug/L	NA	NA	NA	NA	NA	<30.0	6.43 J	<30.0	NA	NA	NA	NA	NA	<30.0	<30.0	NA	NA	NA	NA	NA	NA	NA	<30.0			
Metals	Barium	2000	ug/L	NA	NA	NA	NA	NA	165	167	154	NA	NA	NA	NA	NA	91.2	88.8	NA	NA	NA	NA	NA	NA	NA	NA	114		
Metals	Beryllium	4	ug/L	NA	NA	NA	NA	NA	<5.00	<5.00	<5.00	NA	NA	NA	NA	NA	<5.00	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	<5.00		
Metals	Cadmium	5	ug/L	NA	NA	NA	NA	NA	<5.00	<5.00	<5.00	NA	NA	NA	NA	NA	<5.00	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	<5.00		
Metals	Calcium		ug/L	NA	NA	NA	NA	NA	6100	6640	6630	NA	NA	NA	NA	NA	5470	6070	NA	NA	NA	NA	NA	NA	NA	NA	5440		
Metals	Chromium	100	ug/L	NA	NA	NA	NA	NA	<10.0	1 J	1.21 J	NA	NA	NA	NA	NA	<10.0	<10.0	NA	NA	NA	NA	NA	NA	NA	NA	<10.0		
Metals	Cobalt		ug/L	NA	NA	NA	NA	NA	<5.00	<5.00	<5.00	NA	NA	NA	NA	NA	3.97 J	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	1.3 J		
Metals	Copper	1300	ug/L	NA	NA	NA	NA	NA	<20.0	<20.0	<20.0	NA	NA	NA	NA	NA	<20.0	<20.0	NA	NA	NA	NA	NA	NA	NA	NA	<20.0		
Metals	Iron		ug/L	NA	NA	NA	NA	NA	21200	19800	19700	NA	NA	NA	NA	NA	<100	<100	NA	NA	NA	NA	NA	NA	NA	NA	20900		
Metals	Lead	15	ug/L	NA	NA	NA	NA	NA	<20.0	4.37 J	<20.0	NA</																	

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Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-94 4/24/2020	W-94 N 10/26/2020	W-94 FD 10/26/2020	W-94 N 4/23/2021	W-94 N 6/9/2021	W-94 N 10/26/2021	W-94 N 4/20/2022	W-94 N 10/20/2022	W-94 N 4/24/2023	W-95 N 10/15/2019	W-95 N 4/24/2020	W-95 N 10/26/2020	W-95 N 4/22/2021	W-95 N 10/26/2021	W-95 N 4/20/2022	W-95 N 10/20/2022	W-95 N 4/24/2023	W-96 N 10/11/2019	W-96 N 4/24/2020	W-96 N 10/27/2020	W-96 N 4/22/2021	W-96 N 10/25/2021	W-96 N 4/21/2022	W-96 N 10/19/2022		
Group	Analyte	MCL	note	Units																									
Radiological	Alpha particles	15 *	pCi/L	0.640 #	0.890 #	0 ##	1.65 #	NA	3.82 #	1.29 #	NA	NA	0.695 #	1.22 #	2.10 #	0.537 #	2.57 #	0.255	2.06	NA	NA	2.51 #	0.667 #	0.0674 #	0.253 #	0.893 #	0.774 #	NA	
Radiological	Beta particles	50 *	pCi/L	0.552 #	4.34 #	20.4	0 ##	NA	5.78	2.49 #	NA	NA	0.814 #	1.90 #	11.2	1.60 #	3.99	6.47	0 ##	NA	NA	4.36	3.11 #	4.61	1.76 #	2.22 #	1.69 #	NA	
Radiological	Tritium		pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Radiological	Technetium-99	900	pCi/L	0 ##	0 ##	0 ##	0 ##	0.696 #	NA	0 ##	0 ##	0 ##	0 ##	2.35 #	0 ##	0 ##	0 ##	0 ##	0.193 #	0 ##	0 ##	0.160 #	0 ##	0.03377 #	2.31 #	0.392 #	0 ##	0 ##	1.25 #
Radiological	Uranium-233/234		pCi/L	0.129 #	NA	NA	0.202 #	NA	0 ##	0 ##	NA	0.0746 #	0.0378 #	0.108 #	NA	0 ##	0 ##	0.0521 #	0.0578 #	NA	0 ##	0.0695 #	0.0173 #	NA	0 ##	0.0564 #	0 ##	0 ##	NA
Radiological	Uranium-235/236		pCi/L	0 ##	NA	NA	0.121 #	NA	0 ##	0.176 #	NA	0 #	0.0692 #	0.0369 #	NA	0.0234 #	0 ##	0.126 #	0.0333 #	NA	0.0130 #	0.108 #	0 ##	NA	0.0441 #	0.0586 #	0.0271 #	NA	
Radiological	Uranium-238		pCi/L	0 ##	NA	NA	0 ##	NA	0 ##	0.0167 #	NA	0 ##	0.0560 #	0.00597 #	NA	0.0568 #	0 ##	0.146 #	0.111 #	NA	0.0105 #	0.0719 #	0.110 #	NA	0.0535 #	0 ##	0.0539 #	NA	
Radiological	Percent Uranium-235	%	0 #	NA	NA	0 #	NA	0 #	NA	0 #	NA	0 #	NA	0 #	NA	0 #	NA	0 #	NA	0 #	NA	0 #	NA	0 #	NA	0 #	NA		
Radiological	Uranium-234	ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	NA	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500		
Radiological	Uranium-235	ug/L	< 0.0700	< 0.0700	< 0.0700	< 0.0700	NA	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700		
Radiological	Uranium-238	ug/L	< 0.200	< 0.200	< 0.200	< 0.200	NA	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200		
Radiological	Total Uranium Isotopes	30	ug/L	< 0.200	< 0.200	< 0.200	< 0.200	NA	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200			
Chemical	Fluoride	4	mg/L	0.043	0.03 J	0.026 J	NA	0.0280 J	0.049 J	< 0.10	< 0.10	< 0.10	0.05	0.033 J	0.0570 J	0.233	< 0.10	< 0.10	< 0.10	< 0.10	0.111	0.059	0.073 J	0.0710 J	0.092 J	< 0.10	< 0.10		
Chemical	Nitrate as N	10	mg/L	< 0.02	0.077	0.16	0.054	NA	0.089	0.050	0.077	< 0.020	0.024	0.037	0.058	0.039	0.076	0.059	0.089	< 0.020	0.054	< 0.02	0.032	< 0.020	< 0.020	0.17	0.025		
Chemical	Ammonia as N		mg/L	0.245	0.347	0.307	NA	0.228	0.275	NA	NA	0.145	0.174	0.197	0.110	0.203	NA	NA	NA	NA	0.228	0.165	0.164	0.0950 J	0.241	NA	NA		
Metals	Aluminum		ug/L	< 200	NA	NA	NA	NA	NA	NA	< 200	< 200	NA	NA	NA	NA	NA	NA	NA	NA	< 200	< 200	NA	NA	NA	NA			
Metals	Antimony	6	ug/L	< 20.0	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA			
Metals	Arsenic	10	ug/L	< 30.0	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA	NA	NA	NA	NA	< 30.0	< 30.0	NA	NA	NA	NA			
Metals	Barium	2000	ug/L	83.4	NA	NA	NA	NA	NA	NA	NA	NA	120	110	NA	NA	NA	NA	NA	NA	NA	NA	128	140	NA	NA	NA	NA	
Metals	Beryllium	4	ug/L	< 5.00	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA			
Metals	Cadmium	5	ug/L	< 5.00	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA			
Metals	Calcium		ug/L	4560	NA	NA	NA	NA	NA	NA	6230	5490	NA	NA	NA	NA	NA	NA	NA	NA	8750	7970	NA	NA	NA	NA			
Metals	Chromium	100	ug/L	< 10.0	NA	NA	NA	NA	NA	NA	< 10.0	< 10.0	NA	NA	NA	NA	NA	NA	NA	< 10.0	< 10.0	NA	NA	NA	NA				
Metals	Cobalt		ug/L	< 5.00	NA	NA	NA	NA	NA	NA	< 5.00	< 5.00	NA	NA	NA	NA	NA	NA	NA	NA	3.35 J	2.73 J	NA	NA	NA	NA			
Metals	Copper	1300	ug/L	< 20.0	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA	NA	NA	NA	NA	NA	< 20.0	< 20.0	NA	NA	NA</td				

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-94 4/24/2020 N	W-94 10/26/2020 N	W-94 10/26/2020 FD	W-94 4/23/2021 N	W-94 6/9/2021 N	W-94 10/26/2021 N	W-94 4/20/2022 N	W-94 10/20/2022 N	W-95 4/24/2023 N	W-95 10/15/2019 N	W-95 4/24/2020 N	W-95 10/26/2020 N	W-95 4/22/2021 N	W-95 10/26/2021 N	W-95 4/20/2022 N	W-95 10/20/2022 N	W-95 4/24/2023 N	W-96 10/11/2019 N	W-96 4/24/2020 N	W-96 10/27/2020 N	W-96 4/22/2021 N	W-96 10/25/2021 N	W-96 4/21/2022 N	W-96 10/19/2022 N		
Group	Analyte	MCL	note	Units																								
SVOCs	Caprolactam			ug/L	< 8	< 4.0	< 4.0	9.2	NA	NA	NA	NA	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA
SVOCs	Carbazole			ug/L	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA
SVOCs	Chrysene			ug/L	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA
SVOCs	Di-n-butyl phthalate			ug/L	< 4	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA
SVOCs	Di-n-octyl phthalate			ug/L	< 4	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA
SVOCs	Dibenz(a,h)anthracene			ug/L	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA
SVOCs	Dibenzofuran			ug/L	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA
SVOCs	Diethyl phthalate			ug/L	< 4	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA
SVOCs	Dimethyl phthalate			ug/L	< 4	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA
SVOCs	Fluoranthene			ug/L	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA
SVOCs	Fluorene			ug/L	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA
SVOCs	Hexachlorobenzene	1		ug/L	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA
SVOCs	Hexachlorobutadiene			ug/L	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA
SVOCs	Hexachlorocyclopentadiene	50		ug/L	< 20	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA
SVOCs	Hexachloroethane			ug/L	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA
SVOCs	Isophorone			ug/L	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA
SVOCs	N-Nitrosodi-n-propylamine			ug/L	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA
SVOCs	N-Nitrosodiphenylamine			ug/L	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA
SVOCs	Naphthalene			ug/L	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA
SVOCs	Nitrobenzene			ug/L	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA
SVOCs	Pentachlorophenol	1		ug/L	< 20	< 4.0	< 4.0	< 4.0	NA	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	< 1.0	< 1.0	NA	NA	NA	NA								
SVOCs	Phenanthrene			ug/L	< 0.8	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA
SVOCs	Phenol			ug/L	< 4	< 0.80	< 0.80	< 0.80	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	< 4.0	< 4	< 0.80	< 0.80</			

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-96 4/20/2023	W-97 10/11/2019	W-97 4/24/2020	W-97 10/27/2020	W-97 4/21/2021	W-97 10/25/2021	W-97 4/20/2022	W-97 10/20/2022	W-97 4/21/2023	W-98 2/15/2021	W-98 10/19/2021	W-98 4/18/2022	W-98 10/18/2022	W-98 4/18/2023	W-99 2/15/2021	W-99 10/15/2021	W-99 4/15/2022	W-99 10/14/2022	W-99 4/12/2023	W-100 2/15/2021	W-100 10/15/2021	W-100 4/15/2022	W-100 10/14/2022	W-100 4/12/2023		
Group	Analyte	MCL	note	Units																									
Radiological	Alpha particles	15	*	pCi/L	NA	0.168 #	6.24	3.05 #	2.07 #	1.69 #	0.808 #	4.71	NA	NA	2.38 #	2.36 #	0.818 #	NA	NA	4.95	1.01 #	0.867 #	NA	NA	0.377 #	2.75 #	1.76 #	NA	NA
Radiological	Beta particles	50	*	pCi/L	NA	11.0	53.8	24.5	42.3	10.3	12.9	8.35	NA	NA	13.4	16.3	12.7	NA	NA	39.7	40.6	31.5	NA	NA	4.68 #	23.9	6.75	NA	NA
Radiological	Tritium			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Technetium-99	900		pCi/L	0.888 #	10.3 #	88.3	33.8	97.8	14.7	15.9	20.7	11.3	10.1	1.71 #	6.30	7.44	10.4	6.87	45.2	57.7	41.7	45.7	39.9	6.43	18.0	12.3	33.0	1.98 #
Radiological	Uranium-233/234			pCi/L	0.158 #	0.106 #	0.0625 #	NA	0 #	0 ##	0.0789 #	0 ##	NA	0 ##	0.320	0 ##	0 ##	NA	0.228 #	0.765	0.314 #	0 ##	NA	0.164 #	0.340	0.0196 #	0.394 #	NA	0.0811 #
Radiological	Uranium-235/236			pCi/L	0.101 #	0.0403 #	0.00869 #	NA	0 #	0.0222 #	0 ##	0.0357 #	NA	0 ##	0.223	0.0516 #	0.0234 #	NA	0.0449 #	0.0580 #	0.0255 #	0 ##	NA	0.0295 #	0.100 #	0.0619 #	0.0482 #	NA	0.00151 #
Radiological	Uranium-238			pCi/L	0 ##	0.0495 #	0 ##	NA	0.0373 #	0 ##	0 ##	0 ##	NA	0.0542 #	0 ##	0 ##	0 ##	NA	0.568	0.789	0.130 #	0.0594 #	NA	0.157	0.161 #	0 ##	0.152 #	NA	0 ##
Radiological	Percent Uranium-235		%	##	0 #	0 #	0 #	NA	0 #	0 #	0 #	NA	0 #	0 #	0	0 #	0 #	NA	0 #	0 #	0 #	NA	0 #	0 #	0 #	0 #	NA	0 #	
Radiological	Uranium-234		ug/L	<0.0500	<0.050	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	
Radiological	Uranium-235		ug/L	<0.0700	<0.070	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	
Radiological	Uranium-238		ug/L	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	
Radiological	Total Uranium Isotopes	30	ug/L	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	
Chemical	Fluoride	4	mg/L	<0.10	0.375	0.233	0.408	0.298	0.481	0.451	0.31	0.17	0.18	0.039	J	0.019 J	<0.10	<0.10	2.17	2.7	3.1	1.9	0.399	1.91	1.3	2.5	0.39		
Chemical	Nitrate as N	10	mg/L	<0.020	3.4	6	6.3	15	4.5	4.2	3.8	2.0	2.6	5.4	11	11	9.4	9.5	3.6	7.8	0.56	0.095	1.5	1.3	7.6	2.0	2.7	1.6	
Chemical	Ammonia as N		mg/L	NA	4.89	2.32	4.17	5.28	7.35	6.65	NA	NA	NA	0.431	0.356	NA	NA	NA	3.74	3.25	NA	NA	NA	0.428	8.27	NA	NA	NA	
Metals	Aluminum		ug/L	NA	82.7	J	<200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Antimony	6	ug/L	NA	3.97	J	<20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Arsenic	10	ug/L	NA	<30.0	<30.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Barium	2000	ug/L	NA	155	171	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Beryllium	4	ug/L	NA	<5.00	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Cadmium	5	ug/L	NA	<5.00	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Calcium		ug/L	NA	7250	6680	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Chromium	100	ug/L	NA	<10.0	1.42	J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Cobalt		ug/L	NA	1.05	J	1.82	J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Copper	1300	ug/L	NA	<20.0	<20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Iron		ug/L	NA	492	32.4	J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Lead	15	ug/L	NA	<20.																								

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Well Date Type			W-96 4/20/2023	W-97 10/11/2019	W-97 4/24/2020	W-97 10/27/2020	W-97 4/21/2021	W-97 10/25/2021	W-97 4/20/2022	W-97 10/20/2022	W-98 4/21/2023	W-98 2/15/2021	W-98 10/19/2021	W-98 4/18/2022	W-98 10/18/2022	W-98 4/18/2023	W-99 2/15/2021	W-99 10/15/2021	W-99 4/15/2022	W-99 10/14/2022	W-99 4/12/2023	W-100 2/15/2021	W-100 10/15/2021	W-100 4/15/2022	W-100 10/14/2022	W-100 4/12/2023
Group	Analyte	MCL	note	Units																						
SVOCs	Caprolactam		ug/L	NA	< 8.0	< 8	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Carbazole		ug/L	NA	< 4.0	< 4	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Chrysene		ug/L	NA	< 0.80	< 0.8	< 4.0	< 4	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Di-n-butyl phthalate		ug/L	NA	< 4.0	< 4	< 4	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Di-n-octyl phthalate		ug/L	NA	< 4.0	< 4	< 4	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Dibenz(a,h)anthracene		ug/L	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Dibenzofuran		ug/L	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Diethyl phthalate		ug/L	NA	< 4.0	< 4	< 4	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Dimethyl phthalate		ug/L	NA	< 4.0	< 4	< 4	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Fluoranthene		ug/L	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Fluorene		ug/L	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Hexachlorobenzene	1	ug/L	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Hexachlorobutadiene		ug/L	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Hexachlorocyclopentadiene	50	ug/L	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Hexachloroethane		ug/L	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Indeno[1,2,3-cd]pyrene		ug/L	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Isophorone		ug/L	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	N-Nitrosodi-n-propylamine		ug/L	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	N-Nitrosodiphenylamine		ug/L	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Naphthalene		ug/L	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Nitrobenzene		ug/L	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Pentachlorophenol	1	ug/L	NA	< 20	< 20	< 4.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Pentachlorophenol (SIM)	1	ug/L	NA	NA	< 0.96	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Phenanthrene		ug/L	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Phenol		ug/L	NA	< 4.0	< 4	< 0.80	< 0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Pyrene		ug/L	NA	< 0.80	< 0.8	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
VOCs	Acetone		ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 25.0	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	
VOCs	Benzene	5	ug/L	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromodichloromethane		ug/L	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromoform		ug/L	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromomethane		ug/L	< 2.0	< 2.0	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	2-Butanone		ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Carbon disulfide		ug/L	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Carbon tetrachloride	5	ug/L	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chlorobenzene	100	ug/L	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chloroethane		ug/L	< 2.0	< 2.0	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2.0	< 2.0	< 2.0	< 2.0
VOCs																										

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-102 2/15/2021	W-102 10/8/2021	W-102 4/7/2022	W-102 10/10/2022	W-102 1/5/2023	W-102 4/11/2023	W-103 2/15/2021	W-103 10/18/2021	W-103 4/14/2022	W-103 10/17/2022	W-103 4/10/2023	W-104 2/16/2021	W-104 2/16/2021 FD	W-104 10/25/2021	W-104 4/21/2022	W-104 10/20/2022	W-104 10/20/2022 FD	W-104 4/20/2023	W-105 2/16/2021	W-105 10/25/2021	W-105 4/21/2022	W-105 10/20/2022	W-105 4/19/2023	W-106 4/21/2021	W-106 10/20/2022	W-106 4/19/2023	W-106 4/15/2021
Group	Analyte	MCL	note	Units																										
SVOCs	Caprolactam			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.0			
SVOCs	Carbazole			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.80			
SVOCs	Chrysene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.16			
SVOCs	Di-n-butyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.0			
SVOCs	Di-n-octyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.0			
SVOCs	Dibenz(a,h)anthracene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.16			
SVOCs	Dibenzofuran			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.80			
SVOCs	Diethyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.0			
SVOCs	Dimethyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.0			
SVOCs	Fluoranthene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.16			
SVOCs	Fluorene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.16			
SVOCs	Hexachlorobenzene	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.80			
SVOCs	Hexachlorobutadiene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.80			
SVOCs	Hexachlorocyclopentadiene	50		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.0			
SVOCs	Hexachloroethane			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.80			
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.16			
SVOCs	Isophorone			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.80			
SVOCs	N-Nitrosodi-n-propylamine			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.80			
SVOCs	N-Nitrosodiphenylamine			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.80			
SVOCs	Naphthalene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.16			
SVOCs	Nitrobenzene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.80			
SVOCs	Pentachlorophenol	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.0			
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.94			
SVOCs	Phenanthrene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.16			
SVOCs	Phenol			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.80			
SVOCs	Pyrene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.16			
VOCs	Acetone			ug/L	< 20	< 20	< 20	NA	< 20	< 20	< 25.0	< 20	< 20	< 20	< 20	< 25.0	< 20	< 20	< 25.0	< 20	< 20	< 20	< 25.0	< 20	< 20	< 20	< 20			
VOCs	Benzene	5		ug/L	< 1	< 1.0	< 1.0	NA	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
VOCs	Bromodichloromethane			ug/L	< 1	< 1.0	< 1.0	NA	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
VOCs	Bromoform			ug/L	< 1	< 1.0	< 1.0	NA	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
VOCs	Bromomethane			ug/L	< 2	< 2.0	< 2.0	NA	< 2.0	< 2	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0											

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-106 10/18/2021	W-106 4/14/2022	W-106 10/14/2022	W-106 4/13/2023	W-107 2/16/2021	W-107 10/21/2022	W-107 4/20/2022	W-107 10/21/2022	W-107 4/24/2023	W-108 2/16/2021	W-108 10/25/2021	W-108 10/25/2021	W-108 4/25/2022	W-108 10/21/2022	W-108 4/21/2023	W-109 2/16/2021	W-109 10/26/2021	W-109 4/25/2022	W-109 10/20/2022	W-109 4/21/2023	W-110 2/17/2021	W-110 10/26/2021	W-110 4/20/2022	W-110 10/21/2022		
Group	Analyte	MCL note	Units																										
Radiological	Alpha particles	15 *	pCi/L	1.44 #	0.511 #	NA	NA	0.818 #	1.64 #	1.02	NA	NA	NA	1.14 #	1.96 #	0 ##	1.21 #	NA	NA	0 ##	1.47 #	0.234 #	NA	NA	3.38	2.35	1.55	NA	
Radiological	Beta particles	50 *	pCi/L	0.500 #	1.45 #	NA	NA	3.19 #	3.52 #	4.85	NA	NA	NA	1.81 #	2.55 #	1.92 #	1.55 #	NA	NA	2.18 #	0 ##	0.802 #	NA	NA	1.51 #	0.581 #	0 ##	NA	
Radiological	Tritium		pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Radiological	Technetium-99	900	pCi/L	2.54 #	3.61 #	2.69 #	2.34 #	0 ##	0 ##	0.467 #	0 ##	0.740 #	0 ##	0 ##	0 ##	0 ##	0 ##	1.00 #	0 ##	0 ##	1.75 #	0 ##	0 ##	0 ##	0.825 #	0 ##	0 ##	0.305 #	0 ##
Radiological	Uranium-233/234		pCi/L	0.195 #	0.0618 #	NA	0.125 #	0.308	0 ##	0.266 #	NA	NA	NA	0.0227 #	0.00115 #	0.142 #	0.0897 #	NA	0.0550 #	0.143 #	0.125 #	0.0622 #	NA	0.0246 #	0.200 #	0.185 #	0.0564 #	NA	
Radiological	Uranium-235/236		pCi/L	0.103 #	0 #	NA	0 #	0.0356 #	0.125 #	0.112 #	NA	NA	NA	0 ##	0.0920 #	0 #	0.0368 #	0.0137 #	NA	0.0202 #	0.0295 #	0.0839 #	0.0109 #	NA	0.0360 #	0.210 #	0 ##	0.0102 #	NA
Radiological	Uranium-238		pCi/L	0.122 #	0.0958 #	NA	0.0938	0.0773 #	0.0573 #	0.0731 #	NA	NA	NA	0 ##	0.00149 #	0 ##	0 ##	0.0111 #	NA	0 ##	0.140 #	0.0414 #	0.0253 #	NA	0.0107 #	0.127 #	0.170 #	0.0390 #	NA
Radiological	Percent Uranium-235	%	#	0 #	0 #	NA	0 #	0 #	0 #	NA	NA	NA	0 #	0 #	0 #	0 #	0 #	NA	0 #	0 #	0 #	NA	0 #	0 #	0 #	0 #	NA		
Radiological	Uranium-234	ug/L	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500		
Radiological	Uranium-235	ug/L	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700	<0.0700		
Radiological	Uranium-238	ug/L	<0.200	0.103 J	<0.200	<0.200	0.291	<0.200	0.0931 J	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.119 J	<0.200	<0.200	<0.200	<0.200	0.169 J	<0.200	<0.200	
Radiological	Total Uranium Isotopes	30	ug/L	<0.200	0.103 J	<0.200	<0.200	0.291	<0.200	0.0931 J	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.119 J	<0.200	<0.200	<0.200	<0.200	0.169 J	<0.200	<0.200	
Chemical	Fluoride	4	mg/L	0.154	0.22	0.13	0.14	0.13	0.082 J	<0.10	<0.10	<0.10	<0.10	0.149	0.098 J	0.11	<0.10	<0.10	0.131	0.051 J	<0.10	<0.10	0.138	0.032 J	<0.10	<0.10	<0.10	<0.10	
Chemical	Nitrate as N	10	mg/L	0.084	0.071	0.10	0.17	<0.02	0.089	0.052	0.052	0.098	<0.020	0.086	<0.020	<0.020	0.039	0.32	<0.020	<0.02	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
Chemical	Ammonia as N		mg/L	1.58	NA	NA	NA	0.486	0.334	NA	NA	NA	NA	0.333	0.158	0.148	NA	NA	0.105	0.0756 J	NA	NA	0.0797 J	0.032 J	NA	NA	NA	NA	
Metals	Aluminum		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Antimony	6	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Arsenic	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Barium	2000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Beryllium	4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Cadmium	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Calcium		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Chromium	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Cobalt		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Copper	1300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Iron		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals	Lead	15	ug/L	NA																									

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-106 10/18/2021 N	W-106 4/14/2022 N	W-106 10/14/2022 N	W-106 4/13/2023 N	W-107 2/16/2021 N	W-107 10/26/2021 N	W-107 4/20/2022 N	W-107 10/21/2022 FD	W-107 4/24/2023 N	W-108 2/16/2021 N	W-108 10/25/2021 N	W-108 4/25/2022 N	W-108 10/21/2022 N	W-108 4/21/2023 N	W-109 2/16/2021 N	W-109 10/26/2021 N	W-109 4/25/2022 N	W-109 10/20/2022 N	W-109 4/21/2023 N	W-110 2/17/2021 N	W-110 10/26/2021 N	W-110 4/20/2022 N	W-110 10/21/2022 N
Group	Analyte	MCL	note	Units																						
SVOCs	Caprolactam		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Carbazole		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Chrysene		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Di-n-butyl phthalate		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Di-n-octyl phthalate		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Dibenz(a,h)anthracene		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Dibenzofuran		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Diethyl phthalate		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Dimethyl phthalate		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Fluoranthene		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Fluorene		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Hexachlorobenzene	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Hexachlorobutadiene		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Hexachlorocyclopentadiene	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Hexachloroethane		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Indeno(1,2,3-cd)pyrene		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Isophorone		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	N-Nitrosodi-n-propylamine		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	N-Nitrosodiphenylamine		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Naphthalene		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Nitrobenzene		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Pentachlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Pentachlorophenol (SIM)	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Phenanthrene		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Phenol		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Pyrene		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
VOCs	Acetone		ug/L	< 20	< 20	< 20	< 20	< 20	< 25.0	< 25.0	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 25.0	
VOCs	Benzene	5	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Bromodichloromethane		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Bromoform		ug/L	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Bromomethane		ug/L	< 2.0	< 2.0	< 2.0	< 2	< 2.0	< 2.0	< 2.0	< 2	< 2.0	< 2.0	< 2	< 2.0	< 2.0	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2.0	< 2.0	
VOCs	2-Butanone		ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5.0	
VOCs	Carbon disulfide		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Carbon tetrachloride	5	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Chlorobenzene	100	ug/L	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Chloroethane		ug/L	< 2.0	< 2.0	< 2.0	< 2	< 2.0	< 2.0	< 2.0	< 2	< 2.0	< 2.0	< 2	< 2.0	< 2.0	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2	< 2.0	< 2.0	< 2.0	
VOCs	Chloroform		ug/L	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Chloromethane		ug/L	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Cyclohexane		ug/L	< 1.0</																						

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date	W-110 4/21/2023	W-111 2/16/2021	W-111 10/26/2021	W-111 4/20/2022	W-111 10/20/2022	W-111 4/24/2023	W-112 2/16/2021	W-112 4/20/2022	W-112 10/21/2022	W-112 4/21/2023	W-113 8/5/2021	W-113 10/15/2021	W-113 4/12/2022	W-113 10/13/2022	W-113 4/7/2023	W-114 8/5/2021	W-114 10/15/2021	W-114 4/12/2022	W-114 10/13/2022	W-114 4/7/2023	W-115 8/3/2021	W-115 10/14/2021	W-115 4/12/2022	W-115 10/12/2022				
Group	Analyte	MCL	note	Units																											
Radiological	Alpha particles	15	*	pCi/L	NA	2.02 #	0.989 #	1.71	NA	NA	1.73 #	0 ##	0	NA	NA	5.40	0.642 #	0 ##	NA	NA	1.53 #	0.602 #	0 ##	NA	NA	1.67 #	0 ##	0.272 #	NA		
Radiological	Beta particles	50	*	pCi/L	NA	5.11	1.15 #	2.37 #	NA	NA	2.23 #	0 ##	1.75 #	NA	NA	1.34 #	1.04 #	0.667 #	NA	NA	1.71 #	2.37 #	4.71 #	NA	NA	12.1	0.991 #	3.74 #	NA		
Radiological	Tritium			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Radiological	Technetium-99	900		pCi/L	0.468 #	0 ##	0 ##	0 ##	1.02 #	1.16 #	0 ##	0 ##	0 ##	0.607 #	0.667 #	1.89 #	1.01 #	0.178 #	0 ##	1.97 #	0.900 #	0 ##	0 ##	0.463 #	0 ##	0.0562 #	0 ##	1.26 #			
Radiological	Uranium-233/234			pCi/L	0.0683 #	0.122 #	0.0169 #	0.151 #	NA	0.0148 #	0.263 #	0 ##	0 ##	NA	0 ##	0.0602 #	0 ##	0.132 #	NA	0.139 #	0 ##	0.0697 #	0.146 #	NA	0.0501 #	0.266 #	0.0547 #	0.0443 #	NA		
Radiological	Uranium-235/236			pCi/L	0.0292 #	0.0262 #	0.0932 #	0 ##	NA	0 ##	0.144 #	0.0195 #	0.0827 #	NA	0.0330 #	0 ##	0.0683 #	0 ##	0.0193 #	NA	0.102 #	0 ##	0.0380 #	0.0364 #	NA	0.0620 #	0.155 #	0.0935 #	0.0976 #	NA	
Radiological	Uranium-238			pCi/L	0.0473 #	0.236 #	0.0769 #	0.245 #	NA	0.0864 #	0.106 #	0.00122 #	0.0751 #	NA	0.0885 #	0.110 #	0.118 #	0.0601 #	NA	0.0413 #	0.0342 #	0 ##	0.0124 #	NA	0.0167 #	0.0838 #	0.0575 #	0 ##	NA		
Radiological	Percent Uranium-235			%	0 #	0 #	0 #	0 #	NA	0 #	0 #	0 #	0 #	NA	0 #	0 #	0 #	0 #	NA	0 #	0 #	0 #	0 #	NA	0 #	0 #	0 #	0 #	NA		
Radiological	Uranium-234			ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500			
Radiological	Uranium-235			ug/L	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700			
Radiological	Uranium-238			ug/L	< 0.200	0.179 J	0.136 J	0.145 J	0.0979 J	0.179 J	0.181 J	0.137 J	0.0673 J	< 0.200	0.231	0.0997 J	< 0.200	0.192 J	0.142 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200		
Radiological	Total Uranium Isotopes	30		ug/L	< 0.200	0.179 J	0.136 J	0.145 J	0.0979 J	0.179 J	0.181 J	0.137 J	0.0673 J	< 0.200	0.231	0.0997 J	< 0.200	0.192 J	0.142 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200			
Chemical	Fluoride	4		mg/L	< 0.10	0.061 J	0.012 J	< 0.10	< 0.10	0.107	0.076 J	< 0.10	< 0.10	< 0.10	0.0680 J	0.181	< 0.10	< 0.10	0.0340 J	0.247	< 0.10	< 0.10	< 0.10	0.0680 J	0.026 J	< 0.10	< 0.10	0.0357 J	0.0148 J	NA	
Chemical	Nitrate as N	10		mg/L	< 0.020	0.03	< 0.020	< 0.020	< 0.020	0.074	0.077	0.050	0.084	< 0.020	2.1	2.2	2.9	3.1	2.5	1.1	1.1	1.5	1.0	1.3	3.4	3.6	14				
Chemical	Ammonia as N			mg/L	NA	0.193	0.031 J	NA	NA	NA	NA	NA	NA	NA	NA	0.0131 J	0.025 J	NA	NA	0.106	0.0237 J	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Aluminum			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Antimony	6		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Arsenic	10		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Barium	2000		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Beryllium	4		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Cadmium	5		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Calcium			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Chromium	100		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Cobalt			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Copper	1300		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Iron			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Lead	15		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Magnesium			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Manganese			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Mercury	2		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Nickel			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Potassium			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Metals	Selenium	50		ug/L</td																											

Appendix C - Historical Groundwater Analytical Results (2015 - 2023)  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date Type	W-110 4/21/2023	W-111 2/16/2021	W-111 10/26/2021	W-111 4/20/2022	W-111 10/20/2022	W-112 4/24/2023	W-112 2/16/2021	W-112 10/26/2021	W-112 4/20/2022	W-112 10/21/2022	W-113 8/5/2021	W-113 10/15/2021	W-113 4/12/2022	W-113 10/13/2022	W-113 4/7/2023	W-114 8/5/2021	W-114 10/15/2021	W-114 4/12/2022	W-114 10/13/2022	W-114 4/7/2023	W-115 8/3/2021	W-115 10/14/2021	W-115 4/12/2022	W-115 10/12/2022
Group	Analyte	MCL	note	Units																							
SVOCs	Caprolactam			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Carbazole			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Chrysene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Di-n-butyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Di-n-octyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Dibenz(a,h)anthracene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Dibenzofuran			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Diethyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Dimethyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Fluoranthene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Fluorene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Hexachlorobenzene	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Hexachlorobutadiene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Hexachlorocyclopentadiene	50		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Hexachloroethane			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Isophorone			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	N-Nitrosodi-n-propylamine			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	N-Nitrosodiphenylamine			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Naphthalene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Nitrobenzene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Pentachlorophenol	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Phenanthrene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SVOCs	Phenol			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
VOCs	Acetone			< 20	< 20	< 20	< 25.0	< 20	< 20	< 25.0	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	
VOCs	Benzene	5		ug/L	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Bromodichloromethane			ug/L	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Bromoform			ug/L	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Bromomethane			ug/L	< 2.0	< 2	< 2.0	< 2.0	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
VOCs	2-Butanone			ug/L	< 10	< 10	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
VOCs	Carbon disulfide			ug/L	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Carbon tetrachloride	5		ug/L	&																						

## Appendix C - Historical Groundwater Analytical Results (2015 - 2023) Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

			Well Date	W-115 4/7/2023	W-116 8/3/2021	W-116 10/14/2021	W-116 4/12/2022	W-116 10/12/2022	W-116 4/7/2023	W-117 8/3/2021	W-117 10/14/2021	W-117 4/12/2022	W-117 10/13/2022	W-117 4/7/2023	W-118 8/3/2021	W-118 10/14/2021	W-118 4/12/2022	W-118 10/13/2022	W-118 4/7/2023	W-119 8/4/2021	W-119 8/4/2021	W-119 10/18/2021	W-119 4/12/2022	W-119 10/13/2022	W-119 4/14/2023	W-120 8/4/2021	W-120 10/15/2021	W-120 4/13/2022			
Group	Analyte	MCL	note	Units																											
Radiological	Alpha particles	15	*	pCi/L	NA	1.82 #	1.24 #	0 ##	NA	NA	1.53 #	0.596 #	0.283 #	NA	NA	1.70 #	1.08 #	0.171 #	NA	NA	1.47 #	0 ##	2.25 #	0 ##	NA	NA	0 ##	1.26 #	1.56 #		
Radiological	Beta particles	50	*	pCi/L	NA	3.06 #	0 ##	1.60 #	NA	NA	4.76	0.859 #	1.88 #	NA	NA	2.01 #	0 ##	6.43	NA	NA	3.27 #	0.966 #	2.00 #	4.55	NA	NA	1.81 #	3.56 #	2.87 #		
Radiological	Tritium			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Radiological	Technetium-99	900		pCi/L	0.252 #	1.37 #	0.927 #	0 ##	2.78 #	0.155 #	0.584 #	0 ##	0 ##	1.87 #	0.211 #	0.879 #	1.61 #	0 ##	2.71 #	0.669 #	1.06 #	1.96 #	0 ##	0 ##	0 ##	1.09 #	1.13 #	1.01 #	1.50 #		
Radiological	Uranium-233/234			pCi/L	0 ##	0.119 #	0 ##	0 ##	NA	NA	0.205 #	0 ##	0 ##	NA	0.0122 #	0.0870 #	0.0332 #	0 ##	NA	0.216 #	0 ##	0.0709 #	0 ##	0 ##	0 ##	NA	2.32	0 ##	0.393	0.277	
Radiological	Uranium-235/236			pCi/L	0.112 #	0 ##	0.108 #	0.0706 #	NA	NA	0.168 #	0 ##	0 ##	0.0445 #	NA	0.0656 #	0 #	0.0386 #	0.0382 #	NA	0.0777 #	0 #	0 ##	0.0153 #	0.0486 #	NA	0.206 #	0 ##	0 ##	0.0610 #	
Radiological	Uranium-238			pCi/L	0.0607 #	0 ##	0 ##	0.0217 #	NA	NA	0.214 #	0.0534 #	0 ##	0 ##	0.132 #	NA	0.146 #	0.0223 #	0.0325 #	0.0114 #	NA	0.0152 #	0 ##	0 ##	0 ##	0.0394 #	NA	0.666 #	0 ##	0.278 #	0.112 #
Radiological	Percent Uranium-235			%	0 #	0 #	0 #	0 #	NA	NA	0 #	0 #	0 #	NA	0 #	0 #	0 #	0 #	NA	0 #	0 #	0 #	0 #	NA	0 #	0 #	0 #	0 #	0 #		
Radiological	Uranium-234			ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500			
Radiological	Uranium-235			ug/L	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700			
Radiological	Uranium-238			ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.580	0.623	0.817	
Radiological	Total Uranium Isotopes	30		ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.580	0.623	0	
Chemical	Fluoride	4		mg/L	< 0.10	0.0410 J	0.025 J	< 0.10	< 0.10	0.0770 J	0.029 J	< 0.10	< 0.10	0.0630 J	0.047 J	< 0.10	< 0.10	0.0230 J	0.0250 J	0.016 J	< 0.10	< 0.10	0.0228 J	0.0228 J	NA	NA	0.0265 J	0.0228 J	NA		
Chemical	Nitrate as N	10		mg/L	3.2	4.0	5.9	6.5	5.9	4.4	1.3	2.4	2.8	2.7	2.2	2.5	3.9	4.0	3.4	2.9	0.86	0.89	1.5	1.7	1.5	2.8	4.5	2.7			
Chemical	Ammonia as N			mg/L	NA	0.0987 J	0.0159 J	NA	NA	NA	0.0570 J	0.0207 J	NA	NA	NA	0.0821 J	0.0138 J	NA	NA	NA	0.0129 J	0.0341 J	0.0635 J	NA	NA	0.0265 J	0.0228 J	NA			
Metals	Aluminum			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Antimony	6		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Arsenic	10		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Barium	2000		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Beryllium	4		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Cadmium	5		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Calcium			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Chromium	100		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Cobalt			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Copper	1300		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Iron			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Lead	15		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Magnesium			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Manganese			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Mercury	2		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Nickel			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Potassium			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Selenium	50		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals	Silver			ug/L	NA	NA	NA																								

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			Well Date Type	W-115 4/7/2023 N	W-116 8/3/2021 N	W-116 10/14/2021 N	W-116 4/12/2022 N	W-116 10/12/2022 N	W-116 4/7/2023 N	W-117 8/3/2021 N	W-117 10/14/2021 N	W-117 4/12/2022 N	W-117 10/13/2022 N	W-118 8/3/2021 N	W-118 10/14/2021 N	W-118 4/12/2022 N	W-118 10/13/2022 N	W-118 4/7/2023 N	W-118 8/4/2021 N	W-119 8/4/2021 FD	W-119 10/18/2021 N	W-119 4/12/2022 N	W-119 10/13/2022 N	W-119 4/14/2023 N	W-120 8/4/2021 N	W-120 10/15/2021 N	W-120 4/13/2022 N		
Group	Analyte	MCL	note	Units																									
SVOCs	Caprolactam			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	Carbazole			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	Chrysene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	Di-n-butyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	Di-n-octyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	Dibenz(a,h)anthracene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	Dibenzofuran			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	Diethyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	Dimethyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	Fluoranthene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	Fluorene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	Hexachlorobenzene	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	Hexachlorobutadiene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	Hexachlorocyclopentadiene	50		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	Hexachloroethane			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	Isophorone			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	N-Nitrosodi-n-propylamine			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	N-Nitrosodiphenylamine			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	Naphthalene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	Nitrobenzene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	Pentachlorophenol	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	Phenanthrene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	Phenol			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	Pyrene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
VOCs	Acetone			ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 100			
VOCs	Benzene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0		
VOCs	Bromodichloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0	
VOCs	Bromoform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0	
VOCs	Bromomethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	
VOCs	2-Butanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 50
VOCs	Carbon disulfide			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
VOCs	Carbon tetrachloride	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
VOCs	Chlorobenzene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
VOCs	Chloroethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10
VOCs	Chloroform			ug/L	< 1.0	11	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.2																	

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 Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

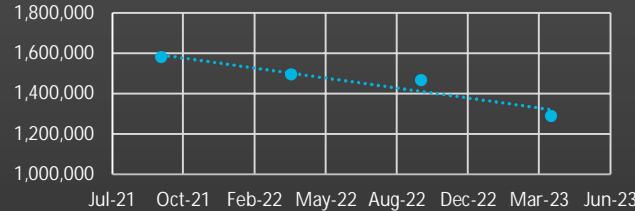
			Well Date Type	W-124 4/21/2023	W-125 8/3/2021	W-125 10/25/2021	W-125 4/21/2022	W-125 10/20/2022	W-125 4/19/2023	W-126 8/3/2021	W-126 10/25/2021	W-126 4/21/2022	W-126 10/19/2022	W-126 4/20/2023
Group	Analyte	MCL	note	Units										
SVOCs	Caprolactam			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Carbazole			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Chrysene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Di-n-butyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Di-n-octyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Dibenz(a,h)anthracene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Dibenzofuran			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Diethyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Dimethyl phthalate			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Fluoranthene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Fluorene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Hexachlorobenzene	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Hexachlorobutadiene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Hexachlorocyclopentadiene	50		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Hexachloroethane			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Isophorone			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	N-Nitrosodi-n-propylamine			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	N-Nitrosodiphenylamine			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Naphthalene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Nitrobenzene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Pentachlorophenol	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Pentachlorophenol (SIM)	1		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Phenanthrene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	Phenol			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	Pyrene			ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	Acetone		< 20	< 20	< 20	< 25.0	< 20	< 20	< 20	< 20	< 25.0	< 20		
VOCs	Benzene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Bromodichloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Bromoform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Bromomethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
VOCs	2-Butanone		< 10	< 10	< 10	< 5.0	< 10	< 10	< 10	< 10	< 5.0	< 10		
VOCs	Carbon disulfide			ug/L	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	2.5	< 1.0	< 1.0	< 2.0	< 1.0
VOCs	Carbon tetrachloride	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Chlorobenzene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Chloroethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
VOCs	Chloroform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Chloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Cyclohexane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	1,2-Dibromo-3-chloropropane	0.2		ug/L	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	
VOCs	1,2-Dibromo-3-chloropropane (8011)	0.2		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
VOCs	Dibromochloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	1,2-Dibromoethane	0.05		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	1,2-Dibromoethane (8011)	0.05		ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
VOCs	1,2-Dichlorobenzene	600		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	1,3-Dichlorobenzene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	1,4-Dichlorobenzene	75		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	1,1-Dichloroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Dichlorodifluoromethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
VOCs	1,2-Dichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	1,1-Dichloroethene	7		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	cis-1,2-Dichloroethene	70		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.68 J	0.56 J
VOCs	trans-1,2-Dichloroethene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	1,2-Dichloropropane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	cis-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	trans-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Ethylbenzene	700		ug/L										

## **Appendix D**

### **Plume Analytics**

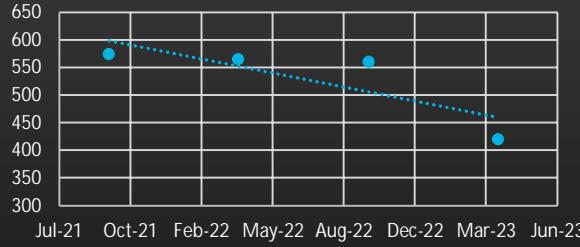
# PCE Upper Aquifer

Plume Area (ft<sup>2</sup>)



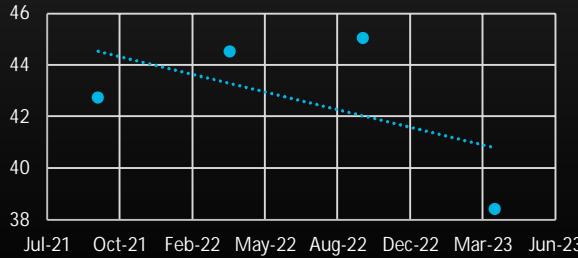
Mann-Kendall  
COV: 0.08  
Statistics (S): -6  
Confidence: 96%  
Trend: Decreasing

Plume Mass (g/ft)



Mann-Kendall  
COV: 0.14  
Statistics (S): -6  
Confidence: 96%  
Trend: Decreasing

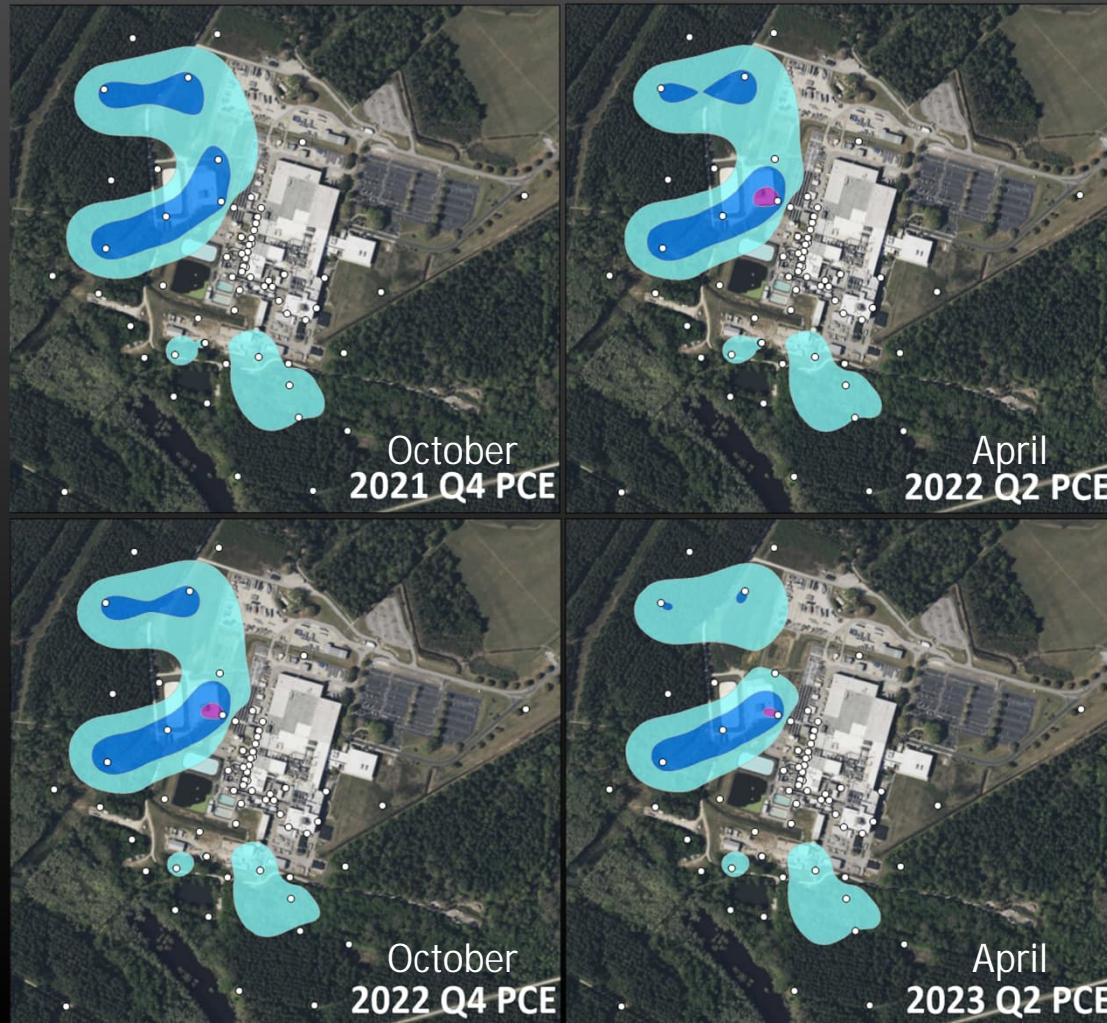
Plume Average Concentration (ug/L)



Mann-Kendall  
COV: 0.07  
Statistics (S): 0  
Confidence: 38%  
Trend: Stable

Upper Aquifer

ug/L  
500  
50  
5



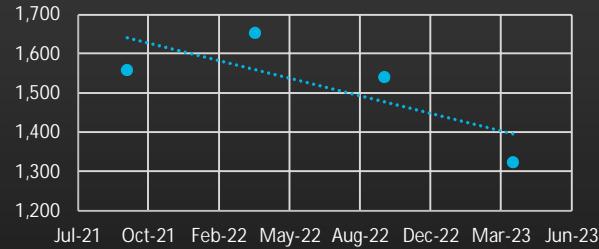
# PCE Lower Aquifer

Plume Area (ft<sup>2</sup>)



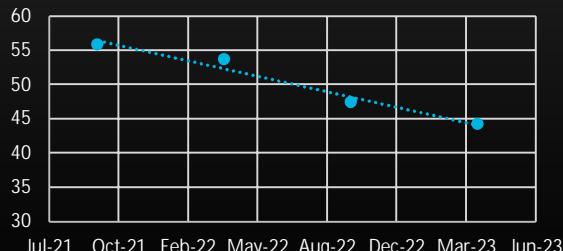
Mann-Kendell  
COV: 0.06  
Statistics (S): 2  
Confidence: 63%  
Trend: No Trend

Plume Mass(g/ft)



Mann-Kendell  
COV: 0.09  
Statistics (S): -4  
Confidence: 83%  
Trend: Stable

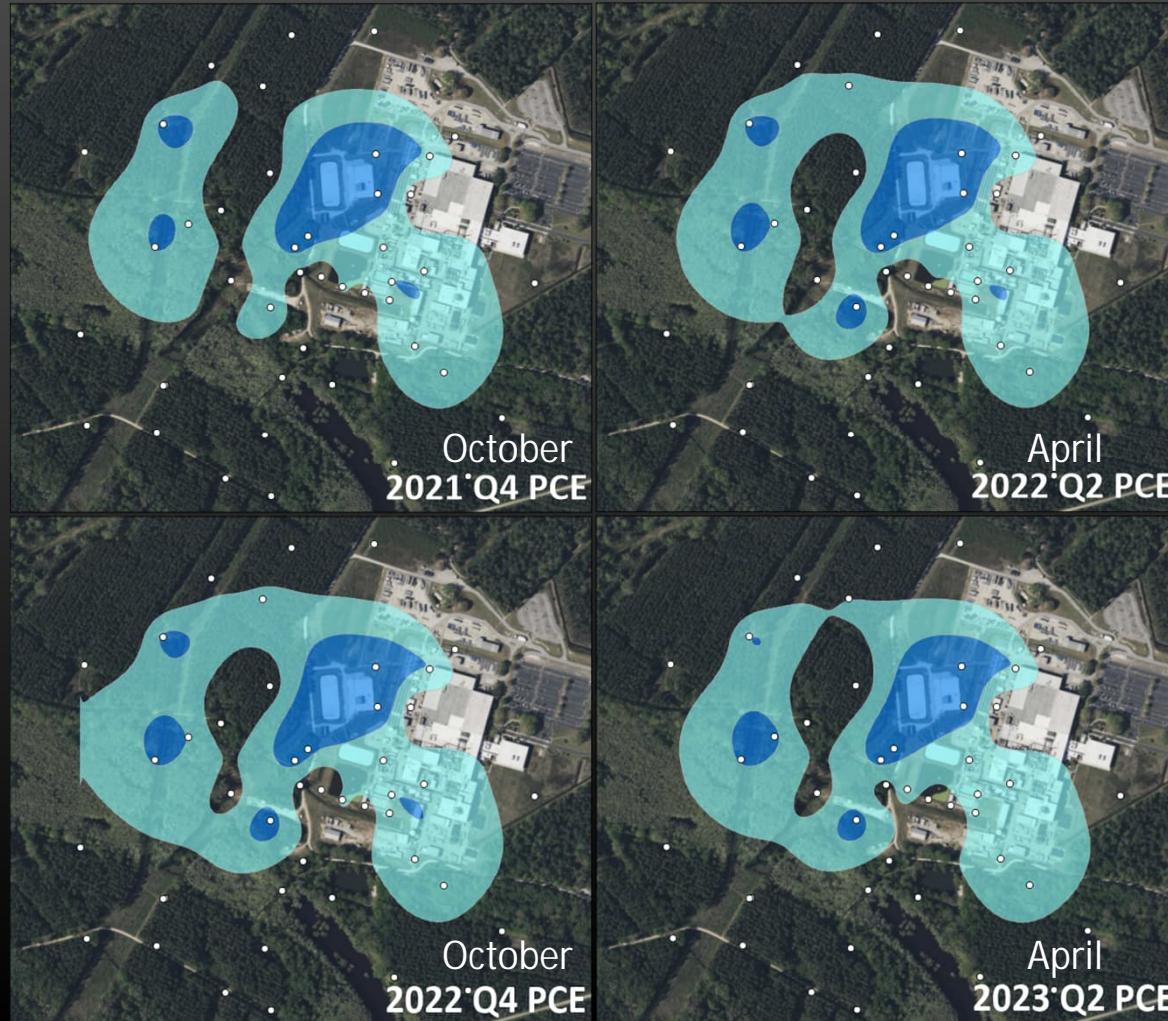
Plume Average Concentration (ug/L)



Mann-Kendell  
COV: 0.11  
Statistics (S): -6  
Confidence: 96%  
Trend: Decreasing

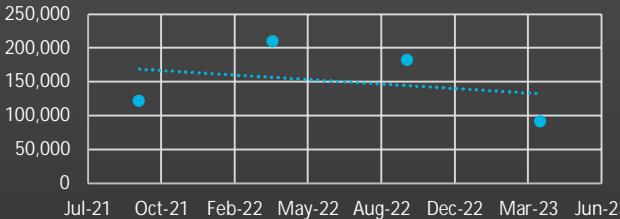
Lower Aquifer

ug/L  
500  
50  
5



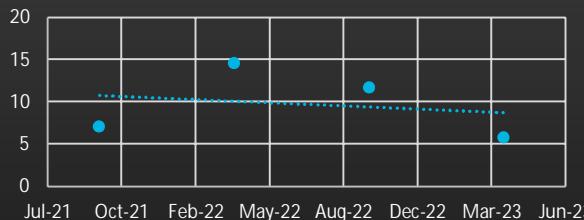
# TCE Upper Aquifer

Plume Area (ft<sup>2</sup>)



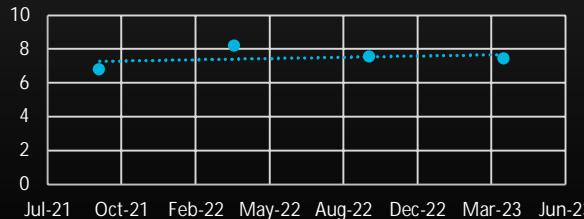
Mann-Kendell  
COV: 0.36  
Statistics(S): -2  
Confidence: 63%  
Trend: Stable

Plume Mass(g/ft)



Mann-Kendell  
COV: 0.42  
Statistics(S): -2  
Confidence: 63%  
Trend: Stable

Plume Average Concentration (ug/L)



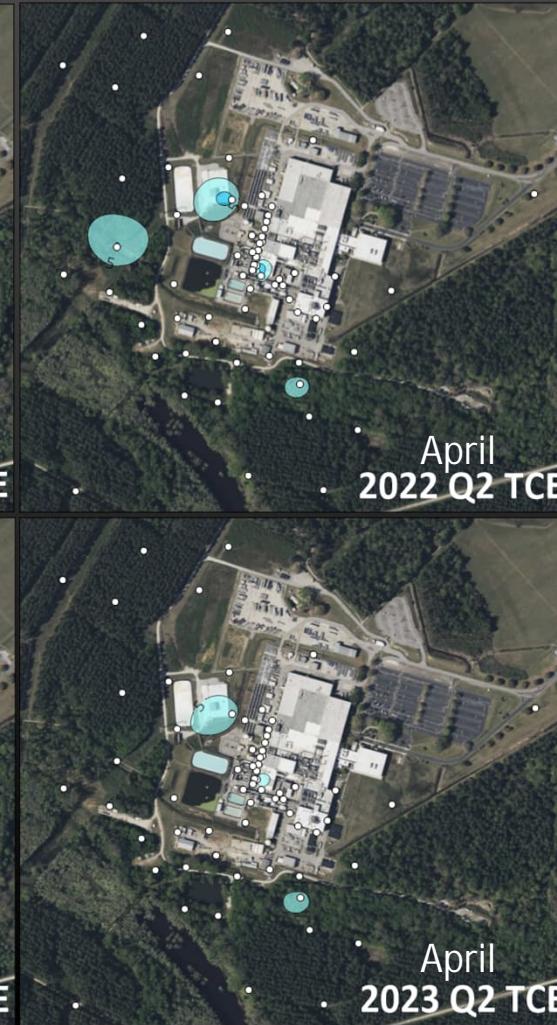
Mann-Kendell  
COV: 0.08  
Statistics(S): 0  
Confidence: 38%  
Trend: Stable

Upper Aquifer

ug/L  
45  
35  
25  
15  
5

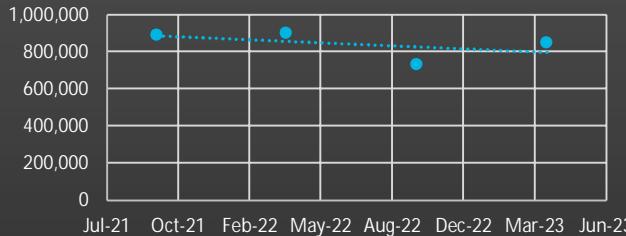


**AECOM** Imagine it.  
Delivered.



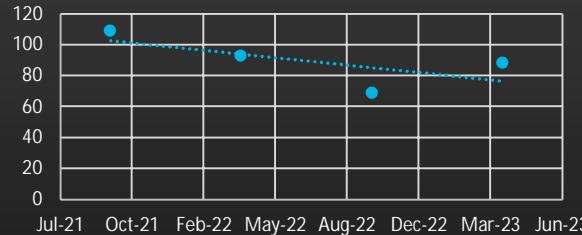
# TCE Lower Aquifer

Plume Area (ft<sup>2</sup>)



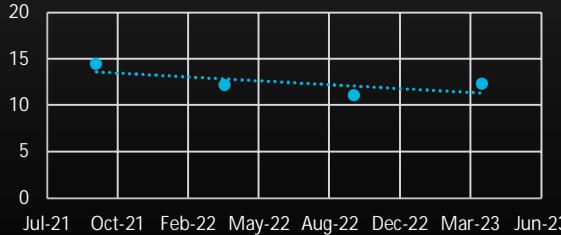
Mann-Kendall  
COV: 0.09  
Statistics(S): -2  
Confidence: 63%  
Trend: Stable

Plume Mass (g/ft)



Mann-Kendall  
COV: 0.19  
Statistics(S): -4  
Confidence: 83%  
Trend: Stable

Plume Average Concentration (ug/L)



Mann-Kendall  
COV: 0.11  
Statistics(S): -2  
Confidence: 63%  
Trend: Stable

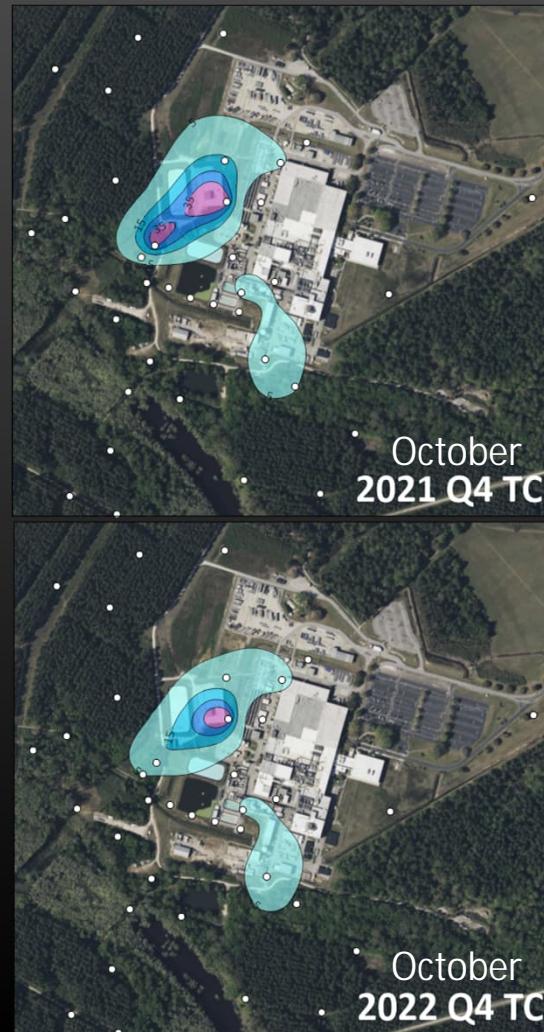
Lower Aquifer

ug/L



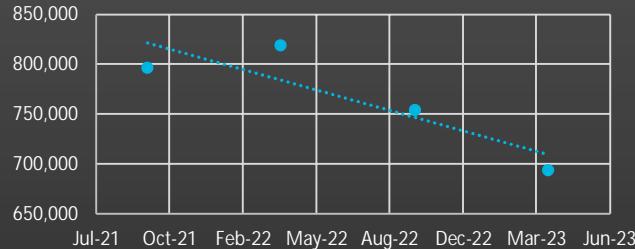
**AECOM**

Imagine it.  
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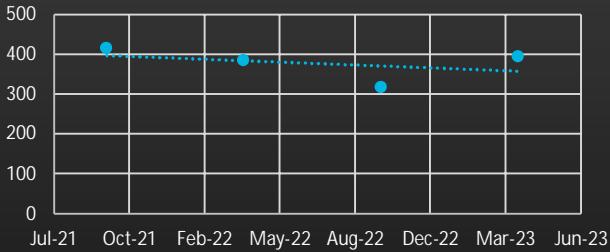
# Nitrate

Plume Area (ft<sup>2</sup>)



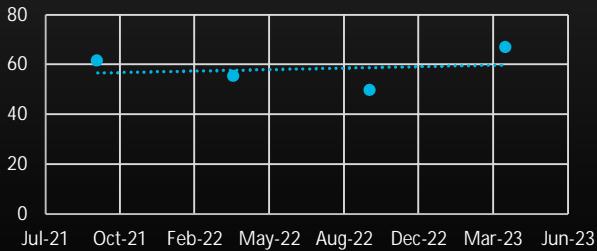
Mann-Kendall  
COV: 0.07  
Statistics (S): -4  
Confidence: 83%  
Trend: Stable

Plume Mass (kg/ft)

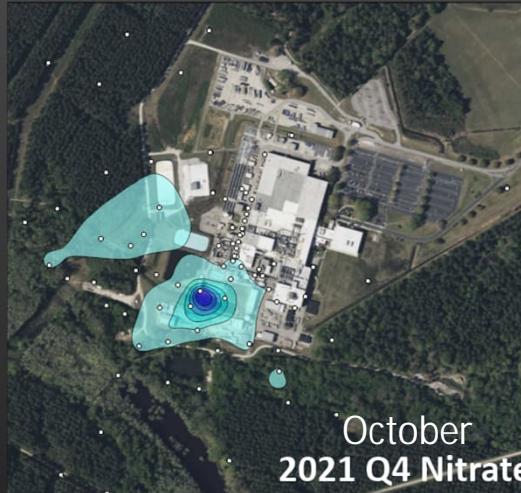
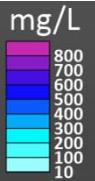


Mann-Kendall  
COV: 0.11  
Statistics (S): -2  
Confidence: 63%  
Trend: Stable

Plume Average Concentration (mg/L)

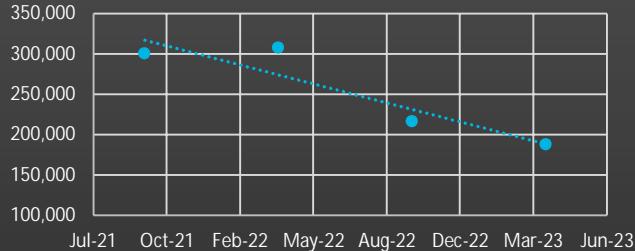


Mann-Kendall  
COV: 0.13  
Statistics (S): 0  
Confidence: 38%  
Trend: Stable



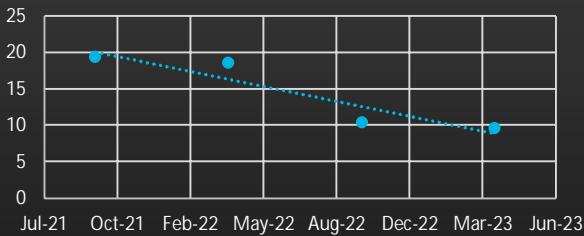
# Fluoride

Plume Area (ft<sup>2</sup>)



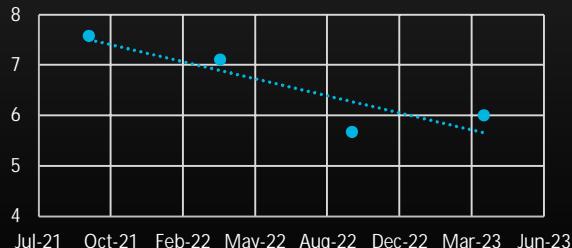
Mann-Kendall  
COV: 0.24  
Statistics (S): -4  
Confidence: 83%  
Trend: Stable

Plume Mass (kg/ft)



Mann-Kendall  
COV: 0.36  
Statistics (S): -6  
Confidence: 96%  
Trend: Decreasing

Plume Average Concentration (mg/L)



Mann-Kendall  
COV: 0.14  
Statistics (S): -4  
Confidence: 83%  
Trend: Stable

mg/L  
25  
15  
4

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# Tc-99

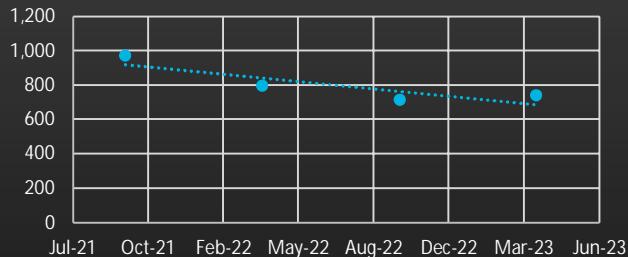
Plume Area (ft<sup>2</sup>)



Mann-Kendell

COV: 0.07  
Statistics (S): -6  
Confidence: 96%  
Trend: Decreasing

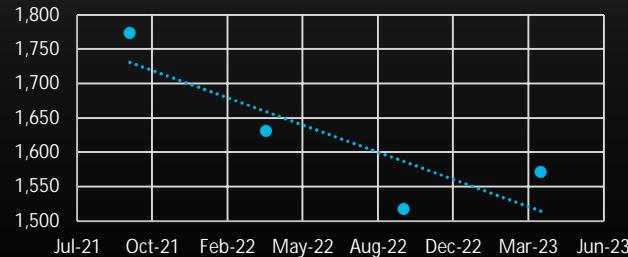
Plume Activity (pCi/ft)



Mann-Kendell

COV: 0.14  
Statistics (S): -4  
Confidence: 83%  
Trend: Stable

Plume Average Activity (pCi/L)



Mann-Kendell

COV: 0.07  
Statistics (S): -4  
Confidence: 83%  
Trend: Stable

pCi/L



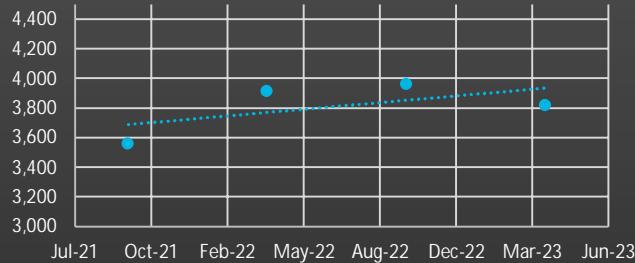
**AECOM**

Imagine it.  
Delivered.



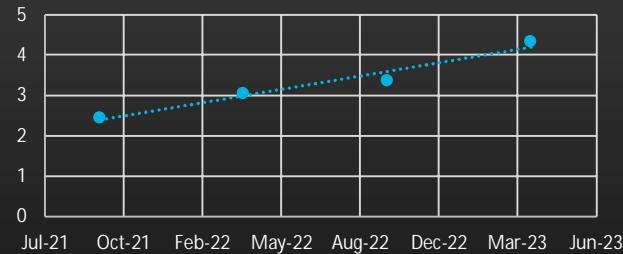
# Uranium

Plume Area (ft<sup>2</sup>)



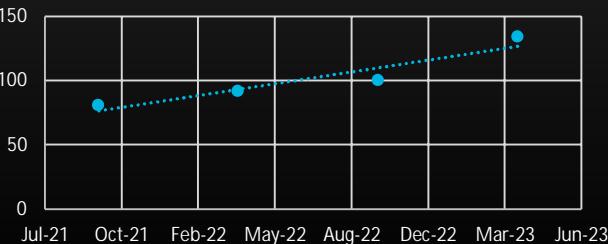
Mann-Kendell  
COV: 0.05  
Statistics (S): 2  
Confidence: 62.5  
Trend: No Trend

Plume Mass (g/ft)



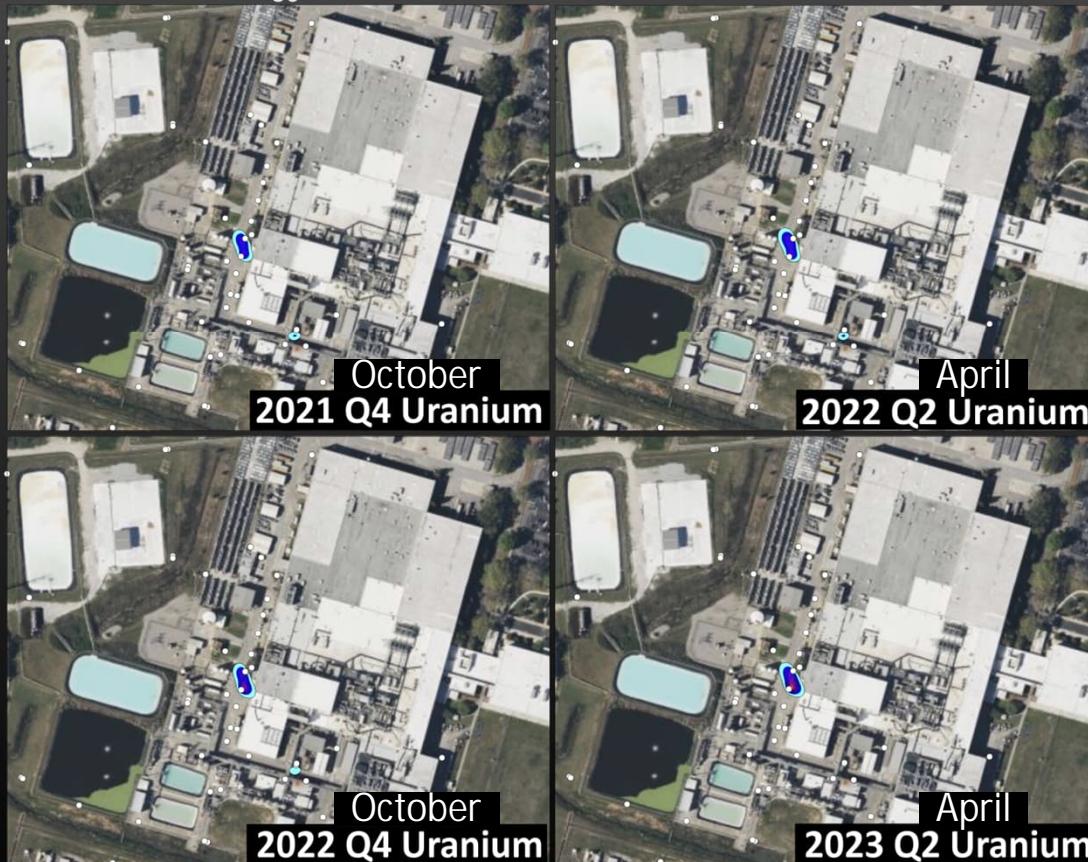
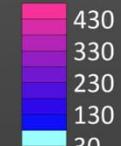
Mann-Kendell  
COV: 0.24  
Statistics (S): 6  
Confidence: 95.8  
Trend: Increasing

Plume Average Concentration (ug/L)



Mann-Kendell  
COV: 0.23  
Statistics (S): 6  
Confidence: 95.8  
Trend: Increasing

ug/L



**Table 1. Summary of Plume Metrics for COPC Plumes.**

COPC	Plume Designation	Date <sup>1</sup>	Plume Metric		
			Average Concentration <sup>2</sup>	Dissolved Mass <sup>3</sup>	Area (ft <sup>2</sup> )
PCE	Upper Zone	2021 Q4	42.72	573.23	1,579,601
		2022 Q2	44.51	564.45	1,492,662
		2022 Q4	45.02	560.29	1,465,165
		2023 Q2	38.39	420.05	1,288,080
	Lower Zone	2021 Q4	55.80	1557.72	3,286,351
		2022 Q2	53.62	1652.67	3,628,363
		2022 Q4	47.33	1540.03	3,830,008
		2023 Q2	44.15	1323.28	3,528,393
TCE	Upper Zone	2021 Q4	6.79	7.00	121,418
		2022 Q2	8.17	14.55	209,512
		2022 Q4	7.56	11.65	181,453
		2023 Q2	7.44	5.72	90,445
	Lower Zone	2021 Q4	14.42	108.92	889,141
		2022 Q2	12.14	92.73	899,246
		2022 Q4	11.04	68.52	730,419
		2023 Q2	12.24	88.00	846,054
Nitrate	Surficial Aquifer	2021 Q4	61.33	414.75	796,123
		2022 Q2	55.20	383.83	818,569
		2022 Q4	49.54	317.05	753,336
		2023 Q2	66.81	393.46	693,250
Fluoride	Surficial Aquifer	2021 Q4	7.57	19.32	300,300
		2022 Q2	7.10	18.51	306,869
		2022 Q4	5.66	10.37	215,846
		2023 Q2	6.00	9.55	187,472
Tc-99	Surficial Aquifer	2021 Q4	1773.56	969.23	64,330
		2022 Q2	1630.16	795.28	57,428
		2022 Q4	1516.70	712.01	55,261
		2023 Q2	1570.46	736.72	55,221
Uranium	Surficial Aquifer	2021 Q4	80.76	2.44	3,560
		2022 Q2	91.72	3.05	3,913
		2022 Q4	99.97	3.36	3,961
		2023 Q2	133.79	4.34	3,818

Notes:

1 Sample months for each event are October, 2021 (2021 Q4), April, 2022 (2022 Q2), October, 2022 (2022 Q4), and April, 2023 (2023 Q2).

2 Average concentration units are ug/L for PCE, TCE, and uranium; mg/L for fluoride and nitrate; and pCi/L for Tc-99.

3 Dissolved mass units are g/ft for PCE, TCE, and uranium; kg/ft for fluoride and nitrate; and pCi/ft for Tc-99.

**Table 2. Summary of Mann-Kendall Trends for Plume Metrics from April 2021 through April 2023.**

COPC	Plume Designation	Mann-Kendall Trends of Plume Metrics		
		Average Concentration	Dissolved Mass	Area
PCE	Upper Zone	<b>Stable</b> (S=0, Conf=38%, COV=0.07)	<b>Decreasing</b> (S=-6, Conf=96%, COV=0.14)	<b>Decreasing</b> (S=-4, Conf=96%, COV=0.07)
	Lower Zone	<b>Decreasing</b> (S=-6, Conf=96%, COV=0.11)	<b>Stable</b> (S=-4, Conf=83%, COV=0.09)	<b>No Trend</b> (S=2, Conf=63%, COV=0.06)
TCE	Upper Zone	<b>Stable</b> (S=0, Conf=38%, COV=0.08)	<b>Stable</b> (S=-2, Conf=63%, COV=.42)	<b>Stable</b> (S=-2, Conf=63%, COV=0.36)
	Lower Zone	<b>Stable</b> (S=-2, Conf=63%, COV=0.11)	<b>Stable</b> (S=-4, Conf=83%, COV=0.19)	<b>Stable</b> (S=-2, Conf=63%, COV=0.09)
Nitrate	Surficial Aquifer	<b>Stable</b> (S=0, Conf=38%, COV=0.13)	<b>Stable</b> (S=-2, Conf=63%, COV=0.11)	<b>Stable</b> (S=-4, Conf=83%, COV=0.11)
Fluoride	Surficial Aquifer	<b>Stable</b> (S=-4, Conf=83%, COV=0.14)	<b>Decreasing</b> (S=-6, Conf=96%, COV=0.36)	<b>Stable</b> (S=-4, Conf=83%, COV=0.24)
Tc-99	Surficial Aquifer	<b>Stable</b> (S=-4, Conf=83%, COV=0.07)	<b>Stable</b> (S=-4, Conf=83%, COV=0.14)	<b>Decreasing</b> (S=-6, Conf=96%, COV=0.07)
Uranium	Surficial Aquifer	<b>Increasing</b> (S=6, Conf=95.8%, COV=0.23)	<b>Increasing</b> (S=6, Conf=95.8%, COV=0.24)	<b>No Trend</b> (S=2, Conf=62.5%, COV=0.05)