



# **GROUNDWATER AND SURFACE WATER MONITORING DATA RELEASE 2024 SAMPLING EVENT SHALLOW LAND DISPOSAL AREA FUSRAP SITE**

U.S. Army Corps of Engineers  
Building Strong®  
Pittsburgh District

**October 2025**

## **Formerly Utilized Sites Remedial Action Program (FUSRAP)**

FUSRAP was initiated in 1974 to identify, investigate, and, if necessary, clean up or control sites throughout the United States that were part of the Nation's early atomic weapons and energy programs during the 1940s, 1950s, and 1960s. In January 2002, Section 8143 of Public Law 107-117 directed the United States Army Corps of Engineers (USACE) to clean up radioactive waste at the Shallow Land Disposal Area (SLDA) site under the FUSRAP. When implementing FUSRAP, the USACE follows the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). This cleanup will follow the remediation process outlined in CERCLA, as amended, and the NCP, and is consistent with the requirements of the July 5, 2001, Memorandum of Understanding between the U.S. Nuclear Regulatory Commission (NRC) and the USACE for coordination of cleanup and decommissioning of FUSRAP sites with NRC-licensed facilities.

The USACE is the lead federal agency under FUSRAP remediating the SLDA site.

## **Site Description**

The SLDA is in Parks Township, Armstrong County, Pennsylvania, about 23 miles (37 kilometers) east-northeast of Pittsburgh, Pennsylvania (Figure 1). The 44-acre (18-hectare) site is predominantly an open field partially bordered by woodland. Ten disposal trenches were excavated in the overburden soils and together encompass approximately 1.2 acres (0.49 hectares); the trenches are separated geographically into the Trench 1 through 9 area (or the upper trench area) and Trench 10 (the lower trench area). Site topography declines approximately 115 feet (35 meters) from the southeast to northwest, or from Trenches 1 through 9 toward Trench 10 (Figure 2). The depths of the upper trenches vary between 10 and 15 feet below ground surface, whereas Trench 10 varies up to 20 feet below ground surface in depth.

The upper trench area is underlain by five groundwater-bearing zones:

- Overburden Soil - averages 20 feet in thickness of native silty soil between elevation 881 and 894 feet above mean sea level (AMSL)
- First Shallow Bedrock - averages 13 feet in thickness between elevation 881 and 894 feet AMSL
- Second Shallow Bedrock - averages 14-feet in thickness between elevation 856 and 870 feet AMSL
- Upper Freeport Coal - averages 4 feet in thickness between elevations 832 and 836 feet AMSL and was subjected to room and pillar mining (now exhibits open-channel flow)
- Deep Bedrock Zone - averages about 36 feet in thickness between elevations 757 and 793 feet AMSL

In the Trench 10 area, the Freeport coal seam was strip mined, and the general area was backfilled with approximately 22 feet of shale rock spoils. Figure 3 presents a generalized northwest-to-southeast geologic cross-section through the site with data incorporated from historical well borings and water level measurements to depict these site entities and groundwater zones.

Groundwater under the upper trench area flows predominantly in the following directions in each layer:

- North to northwesterly in the overburden soil layer (Figure 4)
- Northerly in the first shallow bedrock zone (Figure 5)
- Both northeasterly and southwesterly in the second shallow bedrock zone (Figure 6) due to a flow divide under the site
- Southeasterly in the Freeport coal zone (Figure 7)
- Southwesterly to northwesterly in the deep bedrock zone (Figure 8)

Groundwater surrounding Trench 10 appears to enter the Upper Freeport Coal seam, which generally drains to the south and east (Figure 7). These flow observations contrast from previous sampling events which groundwater in the Upper Freeport Coal Zone drained predominantly to the south.

The site is drained by a small ephemeral stream identified as Dry Run (Figure 2). A portion of the flow in Dry Run infiltrates into the coal mine spoils near Trench 10 and then into the abandoned coal mines that underlie most of the site (see Figure 2-14 in USACE 2005). The balance of flow in Dry Run continues northwest into the Kiskiminetas River.

Land use surrounding the SLDA site consists of medium-sized residential communities and individual rural residences, small farms with croplands and pastures, idle farmland, forestlands, and light industrial areas. The closest community is Kiskimere, which is adjacent to and south of the SLDA; some residences are within several hundred feet of the SLDA.

## Previous Groundwater Monitoring Results

A series of non-USACE groundwater monitoring actions began in 1981 and led to a quarterly monitoring program that ceased in 2000; the USACE initiated site activities in 2002. The historical and USACE-generated data are summarized in the USACE Remedial Investigation (RI) (USACE 2005).

Groundwater sampling conducted by the USACE during the RI included the following radionuclides:

- Radium-228
- Uranium-234, -235, -238
- Thorium-228, 232
- Plutonium-239, -241
- Americium-241

In addition, 10 percent of the RI samples were analyzed for cesium-137, cobalt-60, thorium-230, radium-226, plutonium-238, -240, -242, and gross alpha and beta. The RI sampling of groundwater indicated that FUSRAP-related constituents were not a threat to human health and the environment (USACE 2005).

From April to December 2011 (during the initial remedial action), groundwater was sampled monthly at 14 locations for the following constituents: isotopic uranium (U-234, -235, -238), isotopic thorium (Th-228, -232), radium-228, plutonium-239 and -241, americium-241, total uranium, target analyte list (TAL) metals (plus molybdenum), anions, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), total organic carbon, and total dissolved solids. The radiological and metals analyses include both unfiltered and filtered samples. These sampling results were consistent with the RI sampling (i.e., FUSRAP-related radiologic constituents are not a risk to groundwater at the SLDA). This monitoring effort was suspended in 2012 due to a remediation hiatus and will re-initiate once remediation recommences; the 2011 data are presented in the 2013 groundwater sampling report (USACE 2014).

## Annual Sampling Program Purpose

The groundwater monitoring plan that was developed in 2013 is used to guide annual sampling activities through the completion of the remedial action (USACE 2013). The overarching objective of the sampling effort is to ensure the protection of human health and the environment from FUSRAP-related constituents of concern at the SLDA site. The USACE plan delineated an optimal monitoring program to detect the potential for off-site migration, specifically towards the Kiskimere community.

The goals of the groundwater monitoring plan include:

- Specify analytical parameters for collected samples (analytical parameters are shown in Table 1)
- Identification of the locations to be sampled (sample locations are identified in Table 2)
- Identification of the sampling frequency (i.e., annual sampling)

This sampling program was developed in consultation with the U.S. Environmental Protection Agency (USEPA), who independently sampled on-site and nearby wells through 2017; USEPA ceased sampling since the USEPA and USACE data were comparable.

## Sampling Scope

Annual groundwater and surface water monitoring for 2024 at the SLDA was conducted between October 10 and October 23, 2024. Twenty-two groundwater locations were sampled and generally lie between the 10 trenches and the neighboring residences (Figure 9). Two surface-water locations were sampled to verify the protection of human health and the environment (Figures 9 and 10). Eight wells planned for sampling were either dry or did not yield adequate sampling volumes, which were then substituted with six other wells to maximize the sampling program. Table 1 lists the constituents analyzed, and Table 2 lists the planned locations, along with well substitutions. The constituents listed in Table 1 are a subset of the analytes sampled during the RI and remedial action; this annual sampling program focuses on site contaminants specifically listed in the record of decision (ROD) (USACE 2007), as amended (USACE 2015).

Static water levels from all site wells were recorded synchronously to the nearest 0.01 foot to determine whether adequate volumes were available for sampling and to confirm groundwater flow directions. These measurements are listed in Table 3; wells omitted from this list were either decommissioned during remedial action or previously damaged (unreliable). Figures 4 through 8 graphically present the groundwater elevation data and inferred flow directions for the five water-bearing zones underlying the SLDA.

Low-flow sampling techniques consistent with USEPA guidance (Puls and Barcelona 1996) and the Department of Defense (DoD) (DoD 2013) were utilized for the groundwater and surface water sampling. Prior to sampling, groundwater wells were purged until the following field parameters stabilized according to the sampling plan: temperature, pH, specific conductance, oxidation-reduction potential (ORP), turbidity, and dissolved oxygen. These data are listed in Table 4.

Both unfiltered (total fraction) and field-filtered (dissolved fraction) groundwater samples were obtained where well yield allowed. Filtered samples were collected by utilizing a disposable 0.45-micron in-line filter. Field duplicates provided quality control samples, which were collected at a rate of approximately one duplicate for every six regular samples.

Samples were packaged according to standard practices and shipped to DoD Environmental Laboratory Accreditation Program (ELAP) accredited laboratories. Laboratory data were reviewed and qualified per laboratory performance quality indicators, the applicable laboratory and method criteria, and the DoD Quality Systems Manual.

The sampling task produced investigation derived waste (IDW) that consisted of solids and liquids. The solid IDW generated from groundwater sampling and decontamination activities (i.e., personal protective equipment, sample tubing, etc.) was assessed for radioactivity and either disposed of as general trash or retained on site for disposition. The liquid IDW consisted of purge water that was containerized on site for future disposition.

## Sampling Results

Figures 9 and 10 highlight the on-site groundwater wells as well as on-site and off-site surface water locations that were sampled in 2024; Tables 5 and 6 list the unfiltered (total) and filtered (dissolved phase) analytical results for all groundwater and surface water sampling events for comparison. Tables 7 and 8 present a summary of all groundwater (2003-2024) and surface water (2004-2024) sampling results, comparative drinking water standards, and up-gradient groundwater values for radionuclides derived during the USACE RI. The 2024 analytical results are consistent with past sampling results apart from a few select wells that exhibited slightly elevated values for some analytes relative to the overall dataset; these are discussed below.

### Metals Data:

The site-wide ranges of the 2024 data generally fall within the historical site ranges. The following metals in groundwater and/or surface water exceeded their respective water quality standards in 2024 (Table 5):

- Aluminum
- Beryllium
- Manganese
- Arsenic
- Iron

The site-wide average values since 2003 for aluminum, iron, and manganese in groundwater, along with aluminum, iron, manganese, and thallium in surface water exceed the primary or secondary drinking water standards (Tables 7 and 8) due to natural conditions, such as the naturally low-oxygen or reducing conditions in the coal mine and deep groundwater zones below the coal mine.

In 2024, arsenic in MW-22 (deep zone) exceeded its respective Maximum Contaminant Level (MCL); this reflects previous values observed at this well (Table 5). The reducing conditions in these groundwater zones commonly solubilize such metals from natural minerals, which are persistent in the historic data ranges. The site-wide average for arsenic falls below the MCL (Table 7). Beryllium exceeded its respective MCL at MW-39 (upper freeport coal zone) in 2024, consistent with previous values observed at this well, also likely due to the naturally low-oxygen or reducing conditions in the coal mine (Table 5). The site-wide average for beryllium also falls below the MCL (Table 7).

### Radionuclides:

The ranges of radionuclide results for the 2024 groundwater and surface water sampling event are generally consistent with past sampling data. No radionuclides exceed the drinking water standards, as listed in Tables 6, 7, and 8. Tables 7 and 8 show the 2003-2024 data generally reflect the natural background ranges or are well below the drinking water standards.

## **Conclusions**

The 2024 USACE sampling shows that radionuclides are present in site groundwater and on-site and off-site surface water at concentrations indicative of background and well below USEPA MCLs or dose-based drinking water standards. Sampling results for metals show select constituents are above drinking water standards, primarily in the coal mine and deeper water-bearing zones. Other exceptions for metals vary throughout the hydrogeologic zones at the site and do not indicate a contiguously contaminated zone. The overall sampling results are consistent with past USACE findings that indicate no FUSRAP-related radionuclides exceed the USEPA MCLs or dose-based drinking water standards.

## References

Department of Defense (DoD), 2013. DoD Environmental Field Sampling Handbook, Revision 1.0, DoD Environmental Data Quality Workgroup, April 2013.

Puls, R. and M. Barcelona, 1996. Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures, EPA Issue Paper (EPA/540/S-95/04), April 1996.

U.S. Army Corps of Engineers (USACE), 2005. Shallow Land Disposal Area Remedial Investigation Report, U.S. Army Corps of Engineers, October 2005.

USACE, 2007. Record of Decision for the Shallow Land Disposal Area, U.S. Army Corps of Engineers, August 2007.

USACE, 2013. Groundwater and Surface Water Data Release, U.S. Army Corps of Engineers, December 2013.

USACE, 2015. Record of Decision Amendment for the Shallow Land Disposal Area, U.S. Army Corps of Engineers, December 2015.

U.S. Environmental Protection Agency (USEPA), 2001. Directive number 9283.1-14, Memorandum: Use of Uranium Drinking Water Standards under 40 CFR 141 and 40 CFR 192 as Remediation Goals for Groundwater at CERCLA sites.

---

U.S. ARMY CORPS OF ENGINEERS – PITTSBURGH DISTRICT

2200 WILLIAM S. MOORHEAD FEDERAL BUILDING

1000 LIBERTY AVENUE, PITTSBURGH, P.A. 15222-4186

Phone: 412-395-7500

Email: [celrp-pa@usace.army.mil](mailto:celrp-pa@usace.army.mil)

Website: <https://www.lrd.usace.army.mil/Mission/Projects/Article/3646985/shallow-land-disposal-area/>

# TABLES

**Table 1. Site Monitoring Program and Analytical Methods**

Analyte	Fraction	Method
Target Analyte List (TAL) Metals and Total Uranium	Filtered and Unfiltered	EPA 6020, Inductively Coupled Plasma Mass Spectrometry
Mercury	Filtered and Unfiltered	EPA 7470, Cold-Vapor Atomic Absorption
Thorium-228 Thorium-230 Thorium-232 Plutonium-238 Plutonium-239/240 Americium-241	Filtered and Unfiltered	Alpha Spectrometry
Plutonium-241	Filtered and Unfiltered	Liquid Scintillation

**Table 2: SLDA Groundwater and Surface Water Monitoring Summary**

Well/Location	Northing and Easting [NAD 1983 State Plane PA South Coordinates (US Survey Feet)]		Zone	Up (U) or Down (D) Gradient from Disposal Areas	Monitoring Activity			Notes	Analysis	
					Water Level	Unfiltered and Filtered Samples	Unfiltered and Filtered Field Duplicate Samples		TAL Metals and Mercury [Filtered and Unfiltered]	Rad (Total U, Iso-Th, Iso-Pu, Am-241, Pu-241) [Filtered and Unfiltered]
01U17	474920.75	1460132.90	OB	D	X			Static Water Levels		
03U05	474911.30	1460475.84	OB	D	X			Static Water Levels		
06U05	474752.61	1460622.86	OB	D	-			Static Water Levels		
08U04	474752.61	1460622.86	OB	D	-			Static Water Levels		
10L31	475611.15	1459495.75	UF	U	X	X		Trench Containment Verification (Note 1)	X	X
10L32	475637.54	1459665.53	UF	U	X			Static Water Levels		
MW-01	475701.63	1459639.30	UF	U	X	0		Backup Well (Note 4)	0	0
MW-02	475514.39	1459671.58	DB	U	X			Static Water Levels		
MW-02A	475500.91	1459653.22	UF	D	X	X		Trench Containment Verification (Note 1)	X	X
MW-03	475394.45	1459519.68	UF	D	X	NS		Trench Containment Verification (Note 1)		
MW-05	475426.21	1459213.58	UF	U	X	X		Trench Containment Verification (Note 1)	X	X
MW-07	474862.82	1460008.03	1S	U/cross gradient	X	X	X	Trench Containment Verification (Note 1)	X	X
MW-08	474646.43	1460245.79	1S	U	X	X	X	Trench Containment Verification (Note 1)	X	X
MW-09A	474502.63	1460478.56	1S	U	X	X		Trench Containment Verification (Note 1)	X	X
MW-11D	474996.87	1460158.33	2S	D	X			Static Water Levels		
MW-11S	475006.61	1460164.38	OB	D	X			Static Water Levels		
MW-13	474513.42	1460608.55	1S	U	X	X		Trench Containment Verification (Note 1)	X	X
MW-14	474365.98	1460405.15	1S	U	X	X		Trench Containment Verification (Note 1)	X	X
MW-15	474519.64	1460320.18	1S	U	X	X		Trench Containment Verification (Note 1)	X	X
MW-17	474967.5	1460237.46	2S	D	X			Static Water Levels		
MW-19	475677.35	1459470.99	DB	U	X			Static Water Levels		
MW-20	475435.23	1459560.73	UF	D	X	NS		Trench Containment Verification (Note 1)		
MW-21	475350.60	1459428.07	UF	D	X	NS		Trench Containment Verification (Note 1)		
MW-22	475257.29	1459401.92	DB	D	X	X		Trench Containment Verification (Note 1)	X	X
MW-25	474997.03	1460085.62	1S	D	X			Static Water Levels		
MW-26	474874.01	1460250.94	1S	D	X			Static Water Levels		
MW-27	474839.93	1460615.22	1S	D	X			Static Water Levels		
MW-29	474997.15	1460195.22	1S	D	X			Static Water Levels		
MW-32	474745.92	1460072.69	1S	U	X	NS		Trench Containment Verification (Note 1)		
MW-33	474515.36	1460328.97	2S	U	X	X		Trench Containment Verification (Note 1)	X	X
MW-34A	474743.01	1460055.63	DB	D	X	NS		Trench Containment Verification (Note 1)		
MW-35	474981.1	1460241.46	DB	U	X			Static Water Levels		
MW-37	474864.49	1460596.71	2S	D	X			Static Water Levels		
MW-38	474628.85	1460617.36	1S	U	X			Static Water Levels		
MW-39	475248.58	1459391.74	UF	D	X	X	X	Trench Containment Verification (Note 1)	X	X
MW-40	474510.49	1460314.48	DB	D	X	X		Trench Containment Verification (Note 1)	X	X
MW-41	474948.6	1460120.09	1S	D	X			Static Water Levels		
MW-42	474874.08	1460180.20	1S	D	X			Static Water Levels		
MW-43	474929.41	1460278.27	2S	D	X			Static Water Levels		
MW-44	474794.04	1460541.96	1S	D	X	0	0	Backup Well/Field Duplicate (Note 4)	0	0
MW-45	474707.54	1460371.90	2S	U	X	NS		Trench Containment Verification (Note 1)		
MW-46	474757.33	1460209.91	UF	D	X	NS		Trench Containment Verification (Note 1)		
MW-47	474769.62	1460063.55	OB	U	X	X		Trench Containment Verification (Note 1)	X	X
MW-50	475062.59	1460107.73	1S	D	X			Backup Well (Note 4)		
MW-51	474892.83	1460685.09	1S	D	X	X		Backup Well (Note 4)	0	0
MW-52	474767.91	1460081.72	2S	U	X	X		Trench Containment Verification (Note 1)	X	X
MW-53	474883.38	1460681.58	2S	D	X	0		Backup Well (Note 4)	0	0
MW-58	475686.53	1459760.00	DB	U	X			Static Water Levels		
MW-59	474494.87	1460031.85	OB	U	X	0		Backup Well (Note 4)	0	0
MW-61	474501.10	1460020.48	2S	U	X	NS		Trench Containment Verification (Note 1)		
MW-62	474975.92	1460626.67	UF	D	X			Static Water Levels		
MW-64	473972.91	1461139.17	OB	U	X			Static Water Levels		
MW-69	474413.33	1461122.42	OB	U	X			Static Water Levels		
MW-74	475034.11	1460563.70	OB	U	X			Static Water Levels		
MW-80	474965.82	1460356.34	1S	D	X			Static Water Levels		
MW-81	475064.61	1460046.84	1S	D	X			Static Water Levels		
MW-82	474951.18	1460546.39	1S	D	X			Static Water Levels		
MW-83	474990.32	1460446.17	2S	D	X			Static Water Levels		
MW-84	474932.04	1460608.34	1S	D	X			Static Water Levels		
MW-86	474872.88	1460766.95	1S	D	X			Static Water Levels		
PZ-01	475012.32	1460057.73	OB	D	X	0		Backup Well (Note 4)	0	0
PZ-02	474931.25	1460146.14	OB	D	X			Static Water Levels		
PZ-03A	474874.5	1460282.09	OB	D	-			Static Water Levels		
PZ-05	474834.66	1460595.88	OB	D	X			Static Water Levels		
PZ-06A	474678.01	1460656.96	OB	D	X			Static Water Levels		
PZ-07	474602.29	1460545.24	OB	U	X			Static Water Levels		
PZ-08	474666.96	1460375.71	OB	U	X			Static Water Levels		
PZ-09	474527.33	1460302.34	OB	U	X	X		Trench Containment Verification (Note 1)	X	X
TPZ-01	475102.5	1460052.79	1S	U	X			Static Water Levels		
TPZ-02	475102.5	1460052.79	1S	U	-			Static Water Levels		
TPZ-03	475102.5	1460052.79	1S	D	X			Static Water Levels		
TPZ-04	474971.08	1460247.79	1S	D	X			Static Water Levels		
TPZ-05	474869.71	1460188.39	1S	D	X			Static Water Levels		
TPZ-06	475054.27	1460186.93	OB	D	-			Static Water Levels		
TPZ-07	475054.27	1460186.93	OB	D	-			Static Water Levels		
SE-CR-06	471158.49	1459647.99	WS	-	-	X		Off-Site Surface Water (Notes 1 and 2)	X	X
SP-DR-01	475721.74	1459728.73	WS	-	-	X		On-Site Surface Water (Notes 1 and 3)	X	X

- Notes:**  
 OB Overburden  
 1S First Shallow Bedrock Zone  
 2S Second Shallow Bedrock Zone  
 UF Upper Freeport Coal  
 DB Deep Bedrock Zone  
 WS Surface Water  
 NS Not Sampled (Dry/Non-producing Well)  
 0 Replacement for Dry or Non-producing Trench Containment Verification Well

Note 1: The Contractor is required to collect static groundwater levels, in addition to unfiltered and filtered groundwater and surface water samples for the following analysis. If there is insufficient groundwater yield for the collection of all analytes, the collection (in order of priority) is unfiltered rad, unfiltered metals, filtered rad, and filtered metals.

Analyte
Target Analyte List (TAL) Metals
Total Uranium
Plutonium-238, 239/240 (isotopic)
Thorium-228, 229, 230, 232 (isotopic)
Americium-241
Uranium-232, 233, 234, 235, 236, 238
Plutonium-241

Note 2: SE-CR-06 is an off-site surface water sample collected near the intersection of Carnahan Run and River Road (State Route 66). Carnahan Run outlet to Kiski River.

Note 3: SP-DR-01-20 is an on-site groundwater seep near Trenches 4 and 5. This location is approximate. The sample shall be collected from the nearest groundwater seep in this vicinity (see Figure 1).

Note 4: Sampling of Backup Wells will only be required if monitoring well network (MWN) wells are dry or non-producing. MW-44 is the primary backup well/field duplicate sample location.

**Table 3. 2024 SLDA Groundwater Levels**

Well ID	Date	Depth to Water from TOC (ft)	Measuring Point Elevation (ft amsl)	Groundwater Surface Elevation (ft amsl)	New Remarks
01U17	10-Oct-24	16.00	917.06	901.06	
03U05	11-Oct-24	8.20	924.10	915.90	
06U05	11-Oct-24	N/A	941.26	N/A	Under Excavation Building 1
08U04	11-Oct-24	N/A	938.94	N/A	Under Excavation Building 1
10L31	10-Oct-24	DRY	859.84	DRY	
10L32	10-Oct-24	10.60	848.69	838.09	
MW-01	10-Oct-24	7.68	845.32	837.64	
MW-02	10-Oct-24	79.50	883.69	804.19	
MW-02A	10-Oct-24	47.10	884.72	837.62	
MW-03	10-Oct-24	52.47	889.96	837.49	
MW-05	10-Oct-24	26.40	864.90	838.50	
MW-07	10-Oct-24	32.60	920.97	888.37	
MW-08	11-Oct-24	12.20	931.27	919.07	
MW-09A	11-Oct-24	21.00	944.90	923.90	
MW-11D	10-Oct-24	DRY	909.50	DRY	
MW-11S	10-Oct-24	DRY	908.81	DRY	
MW-13	11-Oct-24	23.40	947.97	924.57	
MW-14	10-Oct-24	15.50	946.38	930.88	
MW-15	10-Oct-24	14.20	939.47	925.27	
MW-17	10-Oct-24	42.30	913.47	871.17	
MW-19	10-Oct-24	59.30	861.18	801.88	
MW-20	10-Oct-24	51.90	889.40	837.50	
MW-21	10-Oct-24	DRY	887.82	DRY	
MW-22	10-Oct-24	90.30	893.05	802.75	
MW-25	10-Oct-24	18.40	909.54	891.14	
MW-26	10-Oct-24	29.70	919.02	889.32	
MW-27	11-Oct-24	33.40	929.50	896.10	
MW-29	10-Oct-24	19.00	912.00	893.00	
MW-32	10-Oct-24	26.48	925.50	899.02	
MW-33	10-Oct-24	56.10	940.32	884.22	
MW-34A	11-Oct-24	100.50	925.88	825.38	
MW-35	10-Oct-24	112.99	913.29	800.30	
MW-37	11-Oct-24	DRY	926.23	DRY	
MW-38	11-Oct-24	39.75	943.81	904.06	
MW-39	10-Oct-24	54.45	891.72	837.27	
MW-40	10-Oct-24	125.20	939.39	814.19	
MW-41	10-Oct-24	21.90	912.59	890.69	
MW-42	10-Oct-24	26.60	916.20	889.60	
MW-43	10-Oct-24	41.40	916.07	874.67	
MW-44	11-Oct-24	44.30	932.93	888.63	
MW-45	10-Oct-24	66.95	929.64	862.69	
MW-46	10-Oct-24	DRY	923.86	DRY	
MW-47	10-Oct-24	14.60	925.00	910.40	Damaged about 18" down by frost
MW-50	10-Oct-24	37.00	901.87	864.87	
MW-51	10-Oct-24	38.80	926.81	888.01	
MW-52	10-Oct-24	36.10	924.46	888.36	
MW-53	10-Oct-24	58.10	926.97	868.87	
MW-58	10-Oct-24	7.90	838.67	830.77	

Well ID	Date	Depth to Water from TOC (ft)	Measuring Point Elevation (ft amsl)	Groundwater Surface Elevation (ft amsl)	New Remarks
MW-59	10-Oct-24	10.02	932.23	922.21	
MW-61	10-Oct-24	67.40	932.38	864.98	
MW-62	10-Oct-24	89.00	926.08	837.08	
MW-64	11-Oct-24	15.30	946.20	930.90	
MW-69	11-Oct-24	16.20	947.28	931.08	Bolted Shut
MW-74	10-Oct-24	DRY	924.99	DRY	
MW-80	10-Oct-24	27.30	916.07	888.77	
MW-81	11-Oct-24	8.52	898.22	889.70	
MW-82	11-Oct-24	32.50	921.22	888.72	
MW-83	10-Oct-24	48.50	916.03	867.53	
MW-84	11-Oct-24	37.90	923.36	885.46	
MW-86	11-Oct-24	37.90	928.02	890.12	
PZ-01	10-Oct-24	14.10	907.08	892.98	
PZ-02	10-Oct-24	19.70	912.86	893.16	
PZ-03A	11-Oct-24	N/A	920.18	N/A	Not Located
PZ-05	11-Oct-24	19.70	929.48	909.78	
PZ-06A	11-Oct-24	9.30	942.82	933.52	
PZ-07	10-Oct-24	8.90	942.67	933.77	
PZ-08	11-Oct-24	11.20	932.98	921.78	
PZ-09	10-Oct-24	10.40	937.66	927.26	
TPZ-01	11-Oct-24	DRY	924.30	DRY	Off-Site Location
TPZ-02	11-Oct-24	N/A	926.38	N/A	Off-Site Location - Bent
TPZ-03	10-Oct-24	9.40	895.50	886.10	
TPZ-04	10-Oct-24	20.90	914.09	893.19	
TPZ-05	11-Oct-24	5.80	916.44	910.64	
TPZ-06	11-Oct-24	N/A	907.77	N/A	Broken, pipe on ground
TPZ-07	11-Oct-24	N/A	917.35	N/A	Pipe Missing

**Notes:**

amsl            above mean sea level  
ft                feet  
TOC              top of casing

**Table 4. Groundwater Sampling Field Data (2024)**

Well ID	Collect Date	Temperature (°C)	pH (standard unit)	ORP (mV)	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Purge Rate (mL/min)	Comments
10L31	14-Oct-24	13.3	6.67	105.6	548	1.94	5.1	110	Sample Time: 1043 (unfiltered) and 1105 (filtered).
MW-01	17-Oct-24	17.4	6.24	194.5	420.7	1.18	0.13	240	Sample Time: 1440 (unfiltered) and 1535 (filtered).
MW-02A	16-Oct-24	9.9	6.67	194.8	416.6	2.99	8.32	25	Sample Time: 1123 (unfiltered) and 1330 (filtered).
MW-03	Not provided	-	-	-	-	-	-	-	
MW-05	14-Oct-24	12.8	6.15	194.5	109.9	7.95	1.02	100	Sample Time: 1025 (unfiltered) and 1115 (filtered).
MW-07	15-Oct-24	12.3	6.75	520.5	805	1.4	1.34	250	Sample Time: 0840 (unfiltered), 0920 (filtered), 1004 (unfiltered duplicate), and 1045 (filtered duplicate). Pin hole in line at 0900 and fixed before collecting filtered samples.
MW-08	15-Oct-24	12.6	7.38	49.7	274.3	4.6	0.27	40	Sample Time: 0819 (unfiltered), 0903 (filtered), 0944 (unfiltered duplicate), and 1017 (filtered duplicate).
MW-09A	16-Oct-24	10.1	6.88	93.2	471.6	14.29	0.51	50	Sample Time: 0905 (unfiltered) and 1015 (filtered).
MW-13	22-Oct-24	12.4	7.76	-101.9	480.9	2.53	8.69	75	Sample Time: 0923 (unfiltered) and 0959 (filtered).
MW-14	15-Oct-24	14.1	6.4	-16.6	565	342.48	0.34	100	Sample Time: 1415 (unfiltered) and 1515 (filtered).
MW-15	15-Oct-24	13.2	5.99	117.7	162.1	62.35	1.22	75	Sample Time: 1651 (unfiltered) and 1727 (filtered).
MW-20	Not provided	-	-	-	-	-	-	-	
MW-21	Not provided	-	-	-	-	-	-	-	Dry
MW-22	22-Oct-24	17.3	6.61	-94.9	2166.0	58.86	0.52	100	Sample Time: 1515 (unfiltered) and 1604 (filtered).
MW-32	Not provided	-	-	-	-	-	-	-	
MW-33	17-Oct-24	13.3	7.20	154.9	424.1	4.83	8.26	75	Sample Time: 1107 (unfiltered) and 1203 (filtered).
MW-34A	Not provided	-	-	-	-	-	-	-	
MW-39	17-Oct-24	13.0	3.63	275.1	1223.0	1.79	0.82	75	Sample Time: 0950 (unfiltered), 1015 (filtered), 1100 (unfiltered duplicate), and 1155 (filtered duplicate).
MW-40	23-Oct-24	14.1	8.88	35.4	1558.0	47.82	3.24	-	Sample Time: 1425 (unfiltered) and 1435 (filtered). Electric pump failure on both 17 and 18 Oct. Bladder pump had insufficient pressure on 22 Oct. Bailer used to purge 35 gallons on 23 Oct.
MW-44	17-Oct-24	13.3	6.96	147.2	553.0	5.93	1.21	80	Sample Time: 1107 (unfiltered), 1142 (filtered), 1218 (unfiltered duplicate), and 1247 (filtered duplicate).
MW-45	Not provided	-	-	-	-	-	-	-	
MW-46	Not provided	-	-	-	-	-	-	-	Dry
MW-47	17-Oct-24	16.7	4.93	529.0	409.8	334	4.59	100	Sample Time: 0725 (unfiltered) and 0935 (filtered). Well went dry after collecting parameters. Samples were collected on 18 Oct.
MW-51	23-Oct-24	16.2	7.14	-60.3	371.6	10.47	3.17	110	Sample Time: 1320 (unfiltered) and 1344 (filtered).
MW-52	17-Oct-24	15.0	6.95	-7.3	520	5.31	1.39	110	Sample Time: 1534 (unfiltered) and 1606 (filtered).
MW-53	22-Oct-24	12.4	7.56	209.4	961	180.25	9.77	50	Sample Time: 0915 (unfiltered) and 0735 (filtered). Well went dry after unfiltered samples. Filtered samples were collected on 23 Oct.
MW-59	21-Oct-24	17.7	4.78	271.8	114.1	4.56	0.65	125	Sample Time: 1040 (unfiltered) and 1125 (filtered).
MW-61	Not provided	-	-	-	-	-	-	-	
PZ-01	14-Oct-24	14.4	6.11	142.7	371	0.22	0.91	110	Sample Time: 1425 (unfiltered) and 1455 (filtered).
PZ-09	14-Oct-24	17	4.81	521.2	355.4	35.49	2.55	100	Sample Time: 1430 (unfiltered) and 1510 (filtered).
SP-DR-01	23-Oct-24	18.8	7.9	127	520.0	106.42	8.76	-	Sample Time: 1521 (unfiltered) and 1536 (filtered). Parameters listed are from when the unfiltered samples were taken. Parameters from filtered sample are as follows: temp: 17.9°C, pH: 7.98, ORP: 154.6 mV, specific conductance: 528 mS/cm, turbidity: 149.78 NTU, D.O.: 8.92 mg/L.
SE-CR-06	22-Oct-24	13.2	7.74	206.7	548	2.3	10.69	-	Sample Time: 1401 (unfiltered) and 1421 (filtered). Parameters listed are from when the unfiltered samples were taken. Parameters from filtered sample are as follows: temp: 12.5°C, pH: 7.73, ORP: 191.4 mV, specific conductance: 545 mS/cm, turbidity: 2.35 NTU, D.O.: 10.76 mg/L.

Maximum	18.8	8.9	529	2166.000	342.5	10.7	250.0
Minimum	9.9	3.6	-102	109.900	0.2	0.1	25.0
Average	14.2	6.6	159	597.879	51.7	3.5	100.0
Geometric Mean	14.0	6.5	--	472.441	--	1.8	88.1

**NOTES:**  
 Temperature (F) - Degrees Fahrenheit  
 Specific Conductance (mS/cm) - millisiemens per centimeter  
 ORP (mV) - Oxidation Reduction Potential in millivolts  
 Turbidity (NTU) - Nephelometric Turbidity Units  
 Purge Rate (mL/min) - milliliters per minute ("Pump Max" reflects maximum peristaltic rate of approximately 0.4 gallons [1.5 liters] per minute)

### Table 5. Comprehensive Metals Sampling Results at SLDA

Well	Year	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM, TOTAL	COBALT	COPPER	IRON	LEAD	MAGNESIUM	MANGANESE	MERCURY	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	THALLIUM	VANADIUM	ZINC
Units		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
10I31	2013	0.01 J	0.00052 U	0.00061 U	0.039	0.00027 U	79	0.0013 J	0.00036 J	0.0008 J	0.29	0.00086 J	0.00024 U	42	0.046	0.00086 J	0.0042 J	3.1	0.0015 U	0.00018 U	9	0.00016 U	0.00054 J	0.016 J
	2014	0.0038 J	0.001 U	0.001 U	0.043	0.0005 U	67	0.0028 J	0.0005 U	0.00035 J	0.26	0.0005 U	0.0005 U	36	0.013	0.0001 U	0.002 J	2.7	0.003 J	0.0005 U	6.8	0.0005 U	0.0005 U	0.0031 J
	2015	0.0084 J	0.001 U	0.001 U	0.06	0.0005 U	54	0.00061 J	0.0005 U	0.0005 U	0.15 J	0.0005 U	0.0005 U	27	0.0057	0.0005 U	0.0013 J	2.8	0.0005 U	0.0005 U	5.1	0.0005 U	0.0005 U	0.0018 U
	2016	0.015 J	0.00075 U	0.001 U	0.078	0.0005 U	53	0.00062 J	0.00016 J	0.00073 J	0.62 U	0.0005 U	0.0005 U	32	0.0015 J	0.0001 U	0.0039 J	2.3 J	0.0016 J	0.0005 U	1.9 J	0.0005 U	0.0005 U	0.0054 J
	2017	0.13	0.0011 J	0.001 U	0.082	0.0005 U	54	0.00044 J	0.00034 J	0.00089 J	0.66	0.00036 J	0.00036 J	30	0.013	0.0001 U	0.0029 J	2.5	0.0021 J	0.0005 U	2	0.0005 U	0.0005 U	0.0025 U
	2018	0.012 J	0.00075 U	0.001 U	0.11	0.0005 U	48	0.0006 J	0.00015 J	0.00024 J	0.46	0.0005 U	0.0005 U	25	0.029	0.0001 U	0.0029 J	2.3	0.0025 U	0.0005 U	1.2	0.0005 U	0.0005 U	0.011 J
	2019	0.03 U	0.00074 U	0.001 U	0.15	0.0003 U	54.8	0.0001 J	0.00019 U	0.00037 U	0.33	0.00074 U	0.00074 U	12.1	0.091	0.00016 U	0.00019 U	2.1	0.00019 U	0.00074 U	3.9	0.0003 U	0.00074 U	0.0065 J
	2020	0.03 U	0.00074 U	0.001 U	0.1	0.0003 U	49.4	0.00074 U	0.00019 U	0.00019 U	0.15	0.00074 U	0.00074 U	26.6	0.006	0.00016 U	0.00019 U	2.4	0.0021 J	0.00074 U	5.5	0.0003 U	0.00074 U	0.0019 U
	2021	0.041 U	0.00093 U	0.001 U	0.12	0.0004 U	47.3	0.0002 U	0.00036 U	0.00073 U	0.18	0.00022 U	0.00022 U	26.2	0.004 J	0.00016 U	0.00017 J	2.4	0.0073 U	0.00074 U	1.2	0.0073 U	0.00074 U	0.0073 U
	2022	0.03 U	0.00074 U	0.001 U	0.13	0.0003 U	52.4	0.00021 J	0.00019 U	0.00019 U	0.044 J	0.00019 U	0.00019 U	28.1	0.008	0.00016 U	0.00022 J	2.5	0.0019 U	0.00074 U	1.5	0.0003 U	0.00074 U	0.0026 J
2023	0.012 U	0.0002 U	0.00068 U	0.142	0.000119 U	62.1	0.00055 U	0.000156 U	0.000362 U	0.0253 J	0.00012 U	0.00012 U	30.8	0.00322	0.000079 U	0.000673 J	2.58	0.00309	0.00079 U	1.85	0.00013 U	0.00074 U	0.004 U	
2024	0.0193 U	0.001 U	0.00212 J	0.148	0.0002 U	75.4	0.0003 U	0.0003 U	0.0003 U	0.0698 J	0.0005 U	0.0005 U	31.4	0.0045 J	0.000067 U	0.00006 U	2.38	0.00202 J	0.0003 U	1.43 J	0.0006 U	0.0003 U	0.0033 U	
10I31 (Filtered)	2013	0.0099 J	0.00052 U	0.00061 U	0.03	0.00025 U	65	0.0016 J	0.00018 J	0.00027 U	0.98 J	0.00024 U	0.00024 U	32	0.037	0.00012 J	0.00028 J	2.5	0.0017 J	0.00028 J	7	0.00016 U	0.00049 U	0.013 J
	2014	0.0025 U	0.001 U	0.001 U	0.038	0.00034 J	65	0.0018 J	0.00022 J	0.0015 J	0.47	0.0005 U	0.0005 U	33	0.013	0.0001 U	0.0017 J	2.6	0.0025 U	0.0005 U	6.2	0.0005 U	0.00094 J	0.0035 J
	2015	0.0027 J	0.001 U	0.001 U	0.054	0.0005 U	54	0.002 J	0.00026 J	0.0005 U	0.16 J	0.0005 U	0.0005 U	29	0.0099 J	0.0001 U	0.0014 J	2.8	0.0016 J	0.0005 U	5.5	0.0005 U	0.00054 J	0.0027 J
	2016	0.38	0.00075 U	0.001 U	0.075	0.0005 U	52	0.00071 J	0.00013 J	0.0013 J	0.62 U	0.0005 U	0.0005 U	29	0.0013 J	0.0001 U	0.0023 J	2.3 J	0.0022 J	0.0005 U	1.9 J	0.0005 U	0.0005 U	0.004 J
	2017	0.005 U	0.00075 U	0.001 U	0.076	0.0005 U	33	0.0005 U	0.00022 J	0.00096 J	0.47	0.0005 U	0.0005 U	28	0.0036 J	0.0001 U	0.0023 J	2.4	0.0021	0.0005 U	2	0.0005 U	0.0005 U	0.005 U
	2018	0.0054 J	0.00075 U	0.001 U	0.11	0.0005 U	50	0.00044 J	0.00043 J	0.00093 J	0.47	0.0005 U	0.0005 U	27	0.023	0.0001 U	0.0026 J	2.3	0.0025 U	0.0005 U	1.1	0.0005 U	0.0005 U	0.009 J
	2019	0.03 U	0.00074 U	0.0017 J	0.42	0.00037 U	36.2	0.0018 J	0.00033 J	0.0019 U	11.4	0.00074 U	0.00074 U	6.7	0.4	0.0003 U	0.0047 J	0.97	0.0019 U	0.00074 U	3.7	0.00037 U	0.00074 U	0.0092
	2020	0.03 U	0.00074 U	0.0011 U	0.096	0.00037 U	49.4	0.00074 U	0.00019 U	0.00019 U	0.12	0.00074 U	0.00074 U	27.5	0.0048 J	0.00003 U	0.00003 U	2.4	0.0028 J	0.00037 U	5.4	0.00037 U	0.00074 U	0.0022 J
	2021	0.033 U	0.0066 U	0.0026 U	0.12	0.0013 U	53.4	0.0016 U	0.0016 U	0.0033 U	0.25	0.002 U	0.002 U	27.2	0.0092	0.00003 U	0.00066 U	2.7	0.0066 U	0.0013 U	1.2	0.0066 U	0.0016 U	0.0093 U
	2022	0.03 U	0.00074 U	0.0011 U	0.14	0.00037 U	58.1	0.00037 U	0.00019 U	0.00019 U	0.019 J	0.00074 U	0.00074 U	29.9	0.0023 J	0.00003 U	0.00019 U	2.5	0.00019 U	0.00074 U	1.6	0.00037 U	0.00074 U	0.002 J
2023	0.0124 U	0.000206 U	0.0007 U	0.135	0.000123 U	60.2	0.000567 U	0.000161 U	0.000373 U	0.0244 J	0.000274 J	0.000274 J	28.2	0.0025	0.000123 J	0.000123 J	2.48	0.00293 J	0.000103 U	2.82	0.000134 U	0.00088 U	0.00412 U	
2024	0.0193 U	0.001 U	0.00226 J	0.15	0.0002 U	74.8	0.0003 U	0.0003 U	0.0003 U	0.0599 J	0.0005 U	0.0005 U	32.8	0.00277 J	0.000067 U	0.00006 U	2.44	0.00206 J	0.0003 U	1.51 J	0.0006 U	0.0003 U	0.0033 U	
MW-01	2013	0.012 J	0.00052 U	0.00061 U	0.048	0.00027 U	46	0.00092 J	0.00022 J	0.0008 J	0.19 J	0.0003 J	0.00024 U	21	0.0086 J	0.000085 J	0.0032 J	1.7	0.0018 J	0.00018 U	4.5	0.00016 U	0.00049 U	0.0027 J
	2014	0.0043 U	0.00076 J	0.001 U	0.046	0.0005 U	37	0.00066 J	0.0005 U	0.12 U	0.0015 J	0.0015 J	19	0.0046 U	0.00015 J	0.0014 J	1.5	0.0005 U	0.0001 U	3.2	0.0005 U	0.0005 U	0.0061 J	
	2015	0.027 J	0.001 U	0.0032	0.07	0.0005 U	26	0.0005 U	0.00013 J	0.00024 U	4.2	0.0005 U	0.0005 U	13	0.011	0.0001 U	0.001 J	1.5	0.0025 U	0.0005 U	2.1	0.0005 U	0.0005 U	0.0018 U
	2016	0.012 J	0.00075 U	0.001 U	0.048	0.0005 U	29	0.00054 J	0.0005 U	0.62 U	0.0005 U	0.0005 U	18	0.0042 J	0.0001 U	0.0023 J	1.5 J	0.0025 U	0.0005 U	3.7	0.0005 U	0.0005 U	0.0058 J	
	2017	0.0032 U	0.00075 U	0.001 U	0.053	0.0005 U	31	0.00038 J	0.0005 U	0.00057 J	0.19 J	0.0005 U	0.0005 U	19	0.001 U	0.0001 U	0.0021 J	1.7	0.0025 U	0.0005 U	3.7	0.0005 U	0.0005 U	0.0037 J
	2018	0.008 J	0.00075 U	0.001 U	0.047	0.0005 U	30	0.0007 J	0.0005 U	0.00027 J	0.28	0.0005 U	0.0005 U	17	0.0012 J	0.0001 U	0.002 J	1.7	0.0025 U	0.0005 U	4.3	0.0005 U	0.0005 U	0.011 J
	2019	0.03 U	0.00074 U	0.001 U	0.032	0.0003 U	20.1	0.00074 U	0.00019 U	0.00019 U	0.26	0.00074 U	0.00074 U	3.1	0.55	0.00016 U	0.00019 U	1	0.0019 U	0.00074 U	1.3	0.0003 U	0.00074 U	0.0028 J
	2020	0.03 U	0.00074 U	0.001 U	0.064	0.0003 U	36.9	0.0003 U	0.00037 U	0.00037 U	0.067	0.00074 U	0.00074 U	20.6	0.042	0.00019 U	0.00019 U	1.9	0.00019 U	0.00074 U	4.8	0.0003 U	0.00074 U	0.0028 J
	2021	0.036 U	0.01 U	0.0093 U	0.075	0.0014 U	39.5	0.002 U	0.002 U	0.002 U	0.066 U	0.0022 U	0.002 U	22.5	0.031	0.00016 U	0.00073 U	2.2	0.0073 U	0.0014 U	4.6	0.0073 U	0.002 U	0.0073 U
	2022	0.03 U	0.00074 U	0.001 U	0.082	0.0003 U	39.5	0.00074 U	0.00019 U	0.00019 U	0.019 U	0.00074 U	0.00074 U	20.8	0.0024 J	0.00019 U	0.00019 U	2.0	0.0019 U	0.00074 U	4.7	0.0003 U	0.00074 U	0.0021 J
2023	0.012 U	0.0002 U	0.00068 U	0.0743	0.000119 U	39.9	0.00055 U	0.000156 U	0.000362 U	0.02 U	0.00012 U	0.00012 U	20.7	0.00593	0.000079 U	0.000405 J	2.01	0.000605 J	0.00079 U	4.32	0.00013 U	0.00074 U	0.004 U	
2024	0.0193 U	0.001 U	0.002 U	0.0937	0.0002 U	44.7	0.0003 U	0.0003 U	0.0003 U	0.033 U	0.0005 U	0.0005 U	25.8 J	0.0015 J	0.0000691 U	0.00017 J	2.13	0.000691 U	0.0003 U	5.67 J	0.0006 U	0.0003 U	0.0033 U	
MW-01 (Filtered)	2013	0.0017 J	0.00052 U	0.00061 U	0.043	0.00025 U	44	0.00031 J	0.00012 U	0.0004 U	0.048 U	0.00024 U	21	0.00086 J	0.000085 J	0.0032 J	1.7	0.0018 J	0.00018 U	4.5	0.00016 U	0.00049 U	0.0027 J	
	2014	0.0025 U	0.001 U	0.001 U	0.047	0.0005 U	33	0.00078 J	0.0005 U	0.12 U	0.0015 J	0.0015 J	17	0.00086 J	0.0001 U	0.0012 J	1.3	0.0025 U	0.0005 U	3	0.0005 U	0.0005 U	0.0022 J	
	2015	0.0044 J	0.001 U	0.001 U	0.054	0.0005 U	26	0.0012 J	0.00057 J	0.0005 U	0.31	0.0005 U	0.0005 U	13	0.012	0.0001 U	0.00098 J	1.7	0.0022 J	0.0005 U	2.4	0.0005 U	0.0005 U	0.0027 J
	2016	0.46	0.00075 U	0.001 U	0.048	0.0005 U	32	0.00041 J	0.0005 U	0.62 U	0.00041 J	0.0005 U	17	0.0024 J	0.0001 U									

Well Units	Year	ALUMINUM mg/L	ANTIMONY mg/L	ARSENIC mg/L	BARIUM mg/L	BERYLLIUM mg/L	CADMIUM mg/L	CALCIUM mg/L	CHROMIUM, TOTAL mg/L	COBALT mg/L	COPPER mg/L	IRON mg/L	LEAD mg/L	MAGNESIUM mg/L	MANGANESE mg/L	MERCURY mg/L	NICKEL mg/L	POTASSIUM mg/L	SELENIUM mg/L	SILVER mg/L	SODIUM mg/L	THALLIUM mg/L	VANADIUM mg/L	ZINC mg/L	
MW-07 (Filtered)	2013	0.0095 J	0.00012 J	0.00061 U	0.16	0.00025 U	0.00061 U	58	0.00025 U	0.00027 J	0.002 J	0.048 U	0.00024 U	9.9	0.39	0.00018 U	0.0049 J	2.1	0.0015 U	0.00018 U	4	0.00016 U	0.0004 U	0.0004 U	0.015 J
	2014	0.0025 U	0.001 U	0.001 U	0.21	0.0005 U	0.0005 U	57	0.00078 J	0.00024 J	0.00098 J	0.12 U	0.0005 U	10	0.81	0.0001 U	0.0032 J	2.1	0.0025 U	0.0003 J	4.6	0.0005 U	0.0005 U	0.0023 J	0.061
	2015	0.0023 J	0.001 U	0.001 U	0.18	0.0005 U	0.0005 U	59	0.00018 J	0.00018 J	0.0005 U	0.16 J	0.0005 U	11	0.23	0.0001 U	0.0025 J	2.1	0.0025 U	0.0005 U	3.9	0.0005 U	0.0005 U	0.0005 J	0.061
	2017	0.005 U	0.00075 U	0.001 U	0.18	0.0005 U	0.0005 U	53	0.00056 J	0.0002 J	0.00064 U	0.49	0.0005 U	10	0.23	0.0001 U	0.0036 J	2	0.0025 U	0.0005 U	3.7	0.0005 U	0.0005 U	0.0025 U	0.0087 J
	2018	0.0051 J	0.00075 U	0.001 U	0.18	0.0005 U	0.0003 J	55	0.00082 J	0.00015 J	0.0031 J	0.49	0.0005 U	11	0.23	0.0001 U	0.0033 J	1.7	0.0025 U	0.0005 U	3.4	0.0005 U	0.0005 U	0.0025 U	0.0064 J
	2019	0.03 U	0.00074 U	0.0011 U	0.18	0.00037 U	0.0003 U	56.2	0.00074 U	0.00019 U	0.0019 U	0.49	0.00074 U	28.6	0.27	0.00003 U	0.0052 J	2.5	0.0019 U	0.00074 U	1.3	0.00037 U	0.00074 U	0.00037 U	0.024
	2020	0.03 U	0.00074 U	0.0011 U	0.18	0.00037 U	0.0003 U	57.6	0.00074 U	0.00019 U	0.0019 U	0.49	0.00074 U	28.6	0.27	0.00003 U	0.0052 J	2.5	0.0019 U	0.00074 U	1.3	0.00037 U	0.00074 U	0.00037 U	0.024
	2021	0.033 U	0.0056 U	0.0026 U	0.13	0.00037 U	0.00036 U	61.2	0.0013 U	0.0016 U	0.0016 U	0.02 U	0.0068	12.3	0.0068	0.0003 U	0.0056 U	2.3	0.0066 U	0.0013 U	3.3	0.0066 U	0.0013 U	0.0056 U	0.024
	2022	0.03 U	0.00074 U	0.0011 U	0.15	0.00037 U	0.00037 U	50.4	0.00074 U	0.00019 U	0.0019 U	0.02 U	0.0068	12.3	0.0068	0.0003 U	0.0056 U	2.3	0.0066 U	0.0013 U	3.3	0.0066 U	0.0013 U	0.0056 U	0.024
	2023	0.03 U	0.00074 U	0.0011 U	0.15	0.00037 U	0.00037 U	50.4	0.00074 U	0.00019 U	0.0019 U	0.02 U	0.0068	12.3	0.0068	0.0003 U	0.0056 U	2.3	0.0066 U	0.0013 U	3.3	0.0066 U	0.0013 U	0.0056 U	0.024
MW-08	2013	0.0124 U	0.000206 U	0.000173 U	0.0007 U	0.000136 U	53.1	0.000567 U	0.000161 U	0.000373 U	0.000779 U	0.000114 U	9.94	0.000286 U	0.000113 U	1.8	0.00079 U	0.000412 U	1.9	0.000136 U	0.000103 U	3.33	0.000136 U	0.000818 U	0.00412 U
	2014	0.0193 U	0.001 U	0.002 U	0.143	0.0002 U	0.0003 U	64.8	0.003 U	0.0003 U	0.00133 J	0.0003 U	0.0005 U	12.8	0.131 J	0.000067 U	0.00157 J	1.92	0.0015 U	0.0003 U	4.57 J	0.0006 U	0.0033 U	0.0033 U	0.0033 U
	2015	0.005 J	0.00052 U	0.0014 J	0.35 J	0.0012	0.0015 J	43	0.0025 J	0.0015 J	0.0015 J	0.047	0.0014	8.5	0.1	0.00095 J	0.0017 J	1.7	0.002 J	0.00018 U	3.8 J	0.0009 J	0.0018 J	0.0018 J	0.014 J
	2016	0.0028 J	0.001 U	0.001 U	0.35	0.0005 U	0.0005 U	39	0.0036 J	0.00012 J	0.0005 U	0.42	0.0005 U	8.5	0.12	0.0001 U	0.003 J	1.5	0.0025 U	0.0005 U	3.1	0.0005 U	0.0005 U	0.0005 U	0.0019 J
	2017	0.0043 U	0.00075 U	0.001 U	0.36	0.0005 U	0.0005 U	37	0.00043 J	0.0005 J	0.0005 U	0.45	0.0005 U	8.7	0.055	0.0001 U	0.002 J	1.4 J	0.0025 U	0.0005 U	3.6	0.0005 U	0.0005 U	0.0005 U	0.0088 J
	2018	0.005 U	0.00075 U	0.001 U	0.35	0.0005 U	0.0005 U	39	0.00077 J	0.00015 J	0.00057 U	1.5	0.0005 U	8.7	0.055	0.0001 U	0.002 J	1.4 J	0.0025 U	0.0005 U	3.6	0.0005 U	0.0005 U	0.0005 U	0.0088 J
	2019	0.085 J	0.00074 U	0.001 U	0.053	0.00051 J	0.0008 J	6.7	0.00074 U	0.0005 U	0.0019 U	0.048 J	0.00074 U	8.3	0.39	0.0001 U	0.0015 J	1.6	0.0025 U	0.0005 U	3.2	0.0005 U	0.0005 U	0.0005 U	0.0049 J
	2020	0.03 U	0.00078 J	0.001 U	0.33	0.0003 U	0.00037 U	36.4	0.00074 U	0.00019 U	0.0019 U	0.89	0.00074 U	8.4	0.26	0.00016 U	0.0019 U	1.6	0.0019 U	0.00074 U	2.5	0.0003 U	0.00074 U	0.00074 U	0.0019 U
	2021	0.068 U	0.01 U	0.0093 U	0.35	0.0014 U	0.00073 U	32.9	0.002 U	0.0036 U	0.002 U	1.1	0.0022 U	7.6	0.41	0.00016 U	0.0019 U	1.8	0.0019 U	0.00074 U	2.4	0.0003 U	0.00074 U	0.00074 U	0.0019 U
	2022	0.03 U	0.00074 U	0.001 U	0.38	0.0003 U	0.00037 U	39.5	0.00074 U	0.00019 U	0.0019 U	0.82	0.00074 U	8.6	0.21	0.00016 U	0.0019 U	1.6	0.0019 U	0.00074 U	2.5	0.0003 U	0.00074 U	0.00074 U	0.0019 U
MW-08 (Filtered)	2013	0.012 U	0.0002 U	0.00068 U	0.381	0.000119 U	0.000362 U	39.1	0.00055 U	0.000119 U	0.000362 U	1.18	0.00012 U	8.33	0.000278 U	0.0004 U	1.51	0.000278 U	0.0004 U	2.35	0.00013 U	0.00074 U	0.0004 U	0.004 U	
	2014	0.0193 U	0.001 U	0.002 U	0.356	0.0002 U	0.0003 U	40.9	0.003 U	0.0003 U	0.0003 U	0.455	0.0005 U	9.02	0.159 J	0.000067 U	0.0006 U	3.71	0.0015 U	0.0003 U	3300 J	0.0006 U	0.0033 U	0.0033 U	
	2015	0.0016 J	0.00052 U	0.00061 U	0.33	0.00025 U	0.00027 U	44.4	0.00023 U	0.00032 J	0.00027 U	0.28	0.00023 U	8.3	0.052	0.000062 U	0.0013 J	1.7	0.0025 U	0.00018 U	3.3	0.00016 U	0.00049 U	0.0013 J	
	2016	0.0025 U	0.001 U	0.001 U	0.33	0.0005 U	0.0005 U	38	0.00066 J	0.0005 U	0.00049 J	0.11 J	0.0005 U	7.7	0.051	0.0001 U	0.0023 J	1.5	0.0025 U	0.0005 U	2.9	0.0005 U	0.00062 J	0.00062 J	0.0018 J
	2017	0.005 U	0.00075 U	0.001 U	0.34	0.0005 U	0.0005 U	39	0.00092 J	0.0005 U	0.0005 U	0.28	0.0005 U	8	0.19	0.0005 U	0.0014 J	1.6	0.0025 U	0.0005 U	3	0.0005 U	0.0005 U	0.0005 U	0.0025 U
	2018	0.005 U	0.00075 U	0.001 U	0.33	0.0005 U	0.0005 U	38	0.0005 U	0.00016 J	0.0028 J	0.3 J	0.0005 U	8	0.24	0.000057 J	0.0014 J	1.3 J	0.0025 U	0.0005 U	3.4	0.0005 U	0.0005 U	0.0005 U	0.0056 J
	2019	0.03 U	0.00074 U	0.0011 U	0.26	0.00037 U	0.00037 U	36	0.0011 J	0.0005 U	0.0009 U	0.38	0.00074 U	8.1	0.17	0.0001 U	0.0016 J	1.7	0.0025 U	0.0005 U	3.2	0.0005 U	0.0005 U	0.0005 U	0.0046 J
	2020	0.03 U	0.00074 U	0.0011 U	0.26	0.00037 U	0.00037 U	36	0.0011 J	0.0005 U	0.0009 U	0.38	0.00074 U	8.1	0.17	0.0001 U	0.0016 J	1.7	0.0025 U	0.0005 U	3.2	0.0005 U	0.0005 U	0.0005 U	0.0046 J
	2021	0.033 U	0.0056 U	0.0026 U	0.34	0.00037 U	0.00036 U	35.2	0.00074 U	0.00019 U	0.0019 U	0.27	0.00074 U	8.4	0.14	0.00003 U	0.0052 J	2.4	0.0019 U	0.00074 U	1.6	0.00037 U	0.00074 U	0.00037 U	0.022
	2022	0.03 U	0.00074 U	0.0011 U	0.39	0.00037 U	0.00037 U	37.6	0.0016 U	0.0016 U	0.0016 U	0.48	0.002 U	7.5	0.15	0.00003 U	0.0056 U	1.7	0.0056 U	0.0013 U	2.4	0.0056 U	0.0013 U	0.0056 U	0.022
MW-09A	2013	0.044 J	0.00052 U	0.0043	0.46	0.00027 U	0.0003 U	20	0.005 J	0.00044 J	0.013	0.51	0.0031 J	0.032	0.00083 J	0.0033 J	6.5	0.0015 U	0.00018 U	8.5	0.0016 U	0.00049 U	0.0026 J		
	2014	0.0032 J	0.001 U	0.001 U	0.43	0.0005 U	0.0005 U	26	0.00045 J	0.00029 J	0.0005 U	0.22	0.0005 U	5.4	0.021	0.0005 U	0.0014 J	11	0.0005 U	0.0011 U	11	0.0005 U	0.0011 U	0.0019 J	
	2015	0.0025 U	0.00052 U	0.001 U	0.44	0.0005 U	0.0005 U	26	0.00042 J	0.0005 U	0.0005 U	0.072 J	0.0005 U	5	0.0017 J	0.0001 U	0.00094 J	9.6	0.0025 U	0.0005 U	10	0.00019 J	0.0005 U	0.0025 U	
	2016	0.014 J	0.00075 U	0.001 U	0.43	0.0005 U	0.0005 U	25	0.00032 J	0.00017 J	0.00086 J	0.62 U	0.0005 U	5.9	0.0011 J	0.0001 U	0.0011 J	11	0.0025 U	0.0005 U	12	0.0005 U	0.0005 U	0.0005 U	
	2017	0.0046 U	0.0012 J	0.001 U	0.46	0.0005 U	0.0005 U	27	0.004 J	0.00016 J	0.0006 J	0.18 J	0.0005 U	6.1	0.0069	0.0001 U	0.002 J	11	0.0025 U	0.0004 J	8	0.0005 U	0.0005 U	0.0005 U	
	2018	0.005 U	0.00075 U	0.001 U	0.53	0.0005 U	0.0005 U	28	0.0005 U	0.00036 J	0.00036 J	0.46	0.0005 U	6.6	0.0035 J	0.0005 U	9.6	0.0025 U	0.0005 U	14	0.0005 U	0.0005 U	0.0005 U	0.0065 J	
	2019	0.03 U	0.00074 U	0.001 U	0.024	0.0003 U	0.00037 U	42.6	0.0019 J	0.0019 U	0.0019 U	0.091	0.00074 U	28.6	0.018	0.00016 U	0.0028 J	2.3	0.0019 U	0.00074 U	10.5	0.0003 U	0.00074 U	0.00074 U	0.0046 J
	2020	0.03 U	0.00074 U	0.001 U	0.73	0.00076 J	0.00037 U	31.2	0.00076 J	0.0019 U	0.0019 U	0.57	0.00074 U	7.6	0.57	0.00016 U	0.01	5.8	0.0019 U	0.00074 U	7.2	0.0003 U	0.00074 U	0.00074 U	0.0046 J
	2021	0.036 U	0.01 U	0.0093 U	0.67	0.0014 U	0.00073 U	29.3	0.002 U	0.002 U	0.0036 U	0.5	0.0022 U	7.5	0.19	0.00016 U	0.0093 J	3	0.0073 U	0.0014 U	6.5	0.0003 U	0.00074 U	0.00074 U	0.008 J
	2022	0.03 U	0.00074 U	0.001 U	0.7	0.0003 U	0.00037 U	32.3	0.00074 U																

Well	Year	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM, TOTAL	COBALT	COPPER	IRON	LEAD	MAGNESIUM	MANGANESE	MERCURY	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	THALLIUM	VANADIUM	ZINC
Units		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-15 (Filtered)	2013	0.011 J	0.00052 U	0.00061 U	0.19	0.00025 U	0.00061 U	18	0.00078 J	0.00026 J	0.00086 J	0.00027 U	0.00024 U	4.4	0.14	0.00093 J	0.0017 J	1.1	0.0015 U	0.0005 J	3.8	0.00016 U	0.00049 U	0.012 J
	2014	0.0025 U	0.001 U	0.001 U	0.2	0.0005 U	0.0005 U	18	0.0005 U	0.00029 J	0.0005 U	0.088 J	0.0005 U	4.2	0.16	0.0001 U	0.00096 J	0.97	0.0025 U	0.0005 U	4.1	0.0005 U	0.00049 J	0.002 J
	2015	0.0025 U	0.0006 J	0.0006 J	0.26	0.0005 U	0.0005 U	18	0.0005 U	0.0004 J	0.0005 U	0.43	0.0005 U	4.5	0.14	0.0005 U	0.00024 J	0.72	0.0025 U	0.0005 U	4.5	0.0005 U	0.0005 U	0.0031 J
	2016	0.62	0.00075 U	0.001 U	0.27	0.0005 U	0.0005 U	23	0.0005 U	0.00088 J	0.085	0.48 J	0.0005 U	5.4	0.1	0.0005 U	0.00022 J	0.87 J	0.0025 U	0.0005 U	4.4	0.0005 U	0.0005 U	0.0079 J
	2017	0.005 U	0.00075 U	0.001 U	0.27	0.0005 U	0.0005 U	21	0.00067 J	0.00012 J	0.00068 J	0.52	0.0005 U	5.1	1.1	0.0001 U	0.00027 J	1	0.0025 U	0.0005 U	4.4	0.0005 U	0.0005 U	0.0028 J
	2018	0.005 U	0.00075 U	0.001 U	0.37	0.0005 U	0.00058 J	35	0.0005 U	0.00017 J	0.00074 U	0.51	0.0005 U	5.8	0.1	0.0001 U	0.00021 J	1.1	0.0025 U	0.0005 U	4.4	0.0005 U	0.0005 U	0.0044 J
	2019	0.00674 U	0.00074 U	0.0011 U	0.18	0.0005 U	0.000674 U	19.8	0.0015 U	0.00037 U	0.00051 U	1.1	0.0005 U	6.1	0.21	0.00037 U	0.00019 U	5.4	0.0019 U	0.00074 U	4.8	0.00037 U	0.00074 U	0.0059 J
	2020	0.03 U	0.00074 U	0.0011 U	0.23	0.00037 U	0.00037 U	20.9	0.00037 U	0.00019 U	0.00037 U	5.4	0.0019 U	1.1	0.00037 U	0.00019 U	0.99	0.00019 U	0.00074 U	0.00074 U	4.8	0.00037 U	0.00074 U	0.0029 J
	2021	0.033 U	0.0066 U	0.0026 U	0.29	0.0013 U	0.00066 U	14.6	0.0016 U	0.00019 U	0.0003 U	1.1	0.002 U	4.4	0.1	0.00037 U	0.00066 U	0.99	0.00066 U	0.0013 U	4.6	0.00066 U	0.0013 U	0.0066 U
	2022	0.03 U	0.00074 U	0.0011 U	0.21	0.00037 U	0.00037 U	24.7	0.0022 J	0.00019 U	0.0003 U	1.3	0.00074 U	6.2	1.4	0.00037 U	0.00025 J	1.1	0.00074 U	0.00074 U	5.4	0.00037 U	0.00074 U	0.0023 J
	2023	0.0124 U	0.000206 U	0.0007 U	0.305	0.000123 U	0.000156 U	30.9	0.000567 U	0.000241	0.000373 U	0.166	0.000124 U	6.44	1.49	0.000079 U	0.000114 U	1.15	0.000286 U	0.000103 U	4.42	0.000134 U	0.000818 U	0.00412 U
	2024	0.0209 J	0.001 U	0.002 U	0.226	0.0002 U	0.00037 U	26.7	0.0002 U	0.000197	0.000822 J	0.718	0.0005 U	6.52	1.47	0.000067 U	0.000177 J	1.3	0.00015 U	0.00037 U	5.86 J	0.0003 U	0.000414 U	0.00414 U
	MW-20	2015	27	0.00062 J	0.021	0.051	0.014	0.001	430	0.024 J	0.16	0.061	64	0.011	100	4.5	0.0001 U	0.37	4.8 J	0.0028 J	0.00097 J	5.7	0.0014 J	0.0005 U
MW-20 (Filtered)	2015	0.01 U	0.001 J	0.011 J	0.012 J	0.014	0.00097 J	400	0.015	0.13	0.045	52	0.0047	87	4.5	0.0005 U	0.29	4.5	0.00065 J	0.00051 U	6.6	0.00065 J	0.00055 J	0.63
2013	0.044 J	0.0014 J	0.02	0.022 J	0.00027 U	0.00027 U	210	0.0011 J	0.00072 J	0.0008 J	37	0.00036 J	44	0.59	0.00089 J	0.00075 J	5.1	0.0015 U	0.00018 U	12	0.00018 J	0.00049 U	0.012 J	
2014	0.075	0.00056 J	0.014	0.027	0.0005 U	0.00031 U	170	0.0024 J	0.00052 J	0.0005 U	28	0.00042 J	38	0.54	0.00042 J	0.00057 J	4.3	0.0024 J	0.00051 U	10	0.0005 U	0.0005 U	0.006 J	
2015	0.0055 J	0.001 U	0.015	0.023 J	0.0005 U	0.0005 U	180	0.0005 U	0.00019 J	0.0005 U	27	0.0005 U	35	0.5	0.0001 U	0.00032 J	4.6	0.0025 U	0.0005 U	11	0.0005 U	0.0005 U	0.0018 U	
2016	2.1	0.00074 J	0.017	0.036	0.0005 U	0.00039 J	150	0.0019 J	0.00039 J	0.0005 U	32	0.0017	41	0.53	0.0001 U	0.00074 U	4.4	0.0025 U	0.00051 U	13	0.0005 U	0.0005 U	0.023 J	
2017	0.99	0.00075 U	0.046	0.11	0.00025 J	0.0005 U	170	0.0069 J	0.00024 J	0.0005 J	50	0.003	44	0.65	0.0001 U	0.012	4.4	0.0025 U	0.0005 U	12	0.0005 U	0.0023 J	0.028 J	
2018	0.19	0.00075 U	0.024	0.02 J	0.0005 U	0.0016	150	0.012 J	0.00056 J	0.0003 U	41	0.00026 J	41	0.55	0.00026 J	0.00064 J	4.5	0.0005 U	0.00051 U	12	0.0005 U	0.0025 U	0.0065 J	
2019	1.7	0.00074 U	0.043	0.087	0.00036 J	0.00037 U	155	0.0034	0.00019 U	0.00031 J	43.7	0.0022	39.5	0.55	0.00016 U	0.00065	4.8	0.0019 U	0.00074 U	15.4	0.0003 U	0.0011 J	0.023	
2020	0.63	0.00074 U	0.046	0.046	0.0003 U	0.00037 U	147	0.0024	0.00019 U	0.00037 J	46.1	0.0011 J	38.2	0.57	0.00014 U	0.00036 J	4.9	0.00019 U	0.00074 U	16.3	0.0003 U	0.00074 U	0.019	
2021	0.036 U	0.01 U	0.015 J	0.032	0.0004 U	0.00078 J	129	0.002 U	0.0002 U	0.00036 U	8.7	0.0022 U	31.9	0.22	0.00016 U	0.00073 U	5.4	0.0073 U	0.0004 U	64	0.0073 U	0.002 U	0.0073 U	
2022	0.03 U	0.00074 U	0.048	0.021	0.0003 U	0.00037 U	135	0.00074 U	0.00019 U	0.00037 U	44.3	0.00074 U	37	0.52	0.00074 U	0.00016 U	0.0073 U	4.7	0.0019 U	0.00074 U	23.2	0.0003 U	0.00074 U	0.0036 J
2023	0.102	0.0002 U	0.0264	0.0229	0.000119 U	0.000151 U	148.1	0.00109 J	0.000156 U	0.00103	35	0.00012 U	36.4	0.489	0.000079 U	0.00125 J	4.47	0.000278 U	0.0001 U	16.2	0.00013 U	0.000794 U	0.00571 J	
2024	0.212	0.001 U	0.0387	0.0279	0.0002 U	0.00037 U	149 J	0.00156 J	0.0003 J	0.00034 J	42	0.0005 U	36	0.543	0.000095 J+	0.0017 J	4.44	0.000278 U	0.0003 U	19.6 J	0.0006 U	0.0003 U	0.0033 U	
MW-22 (Filtered)	2013	0.0027 J	0.00052 U	0.018	0.018 J	0.00025 U	0.00027 U	190	0.0003 U	0.00034 J	0.0004 J	35	0.00024 U	38	0.55	0.000073 J	0.0005 J	4.5	0.002 J	0.0003 J	10	0.00016 U	0.00049 U	0.013 J
	2014	0.0026 J	0.001 U	0.015	0.023 J	0.00029 J	0.0003 U	170	0.0006 J	0.0005 J	0.00061	30	0.0005 U	37	0.55	0.0001 U	0.00042 J	4.3	0.0005 U	0.00051 U	10	0.0005 U	0.0005 U	0.003 J
	2015	0.0025 U	0.001 U	0.019	0.023 J	0.0005 U	0.0005 U	180	0.00078 J	0.00025 J	0.0005 U	31	0.0005 U	37	0.56	0.0001 U	0.00042 J	4.6	0.0025 U	0.0005 U	11	0.0005 U	0.0005 U	0.0025 U
	2016	2.9	0.00075 U	0.017	0.036	0.0005 U	0.0005 U	160	0.00033 J	0.00034 J	0.00035	30	0.0005 U	38	0.48	0.0001 U	0.00058 J	4.1	0.0025 U	0.00051 U	12	0.0005 U	0.0005 U	0.026 J
	2017	0.0022 J	0.00075 U	0.022	0.016 J	0.0005 U	0.0005 U	170	0.0023 J	0.00052 J	0.0011 J	37	0.0005 U	43	0.58	0.0001 U	0.00067 J	4.1	0.0025 U	0.0005 U	12	0.0005 U	0.0025 U	0.005 U
	2018	0.0018 J	0.00075 U	0.023	0.016 J	0.0005 U	0.0005 U	140	0.0023 J	0.00054 J	0.001 J	38	0.0005 U	38	0.48	0.0001 U	0.00068 J	4	0.0025 U	0.0005 U	11	0.0005 U	0.0025 U	0.005 U
	2019	0.03 U	0.00074 U	0.041	0.039 J	0.00037 U	0.00037 U	104	0.0037 U	0.00021 U	0.00034 J	7.4	0.0055	18.5	0.42	0.00033 U	0.00051 J	3	0.0019 U	0.00074 U	4.2	0.00037 U	0.00037 U	0.034
	2020	0.03 U	0.00074 U	0.04	0.015	0.00037 U	0.00037 U	139	0.00074 U	0.00019 U	0.00019 U	45.7	0.00074 U	39.8	0.55	0.00033 U	0.00019 U	4.5	0.0019 U	0.00074 U	15.5	0.00037 U	0.00074 U	0.0045 J
	2021	0.033 U	0.0066 U	0.026	0.029	0.0013 U	0.0008 J	148	0.016 U	0.0016 U	0.0003 U	13.7	0.0029 J	35.7	0.25	0.00018 U	0.00066 U	5.4	0.0066 U	0.0013 U	16.4	0.0066 U	0.0016 U	0.0066 U
	2022	0.03 U	0.00074 U	0.047	0.02	0.00037 U	0.00037 U	150	0.0019 U	0.00019 U	0.00019 U	52	0.00074 U	40.1	0.59	0.00033 U	0.00019 U	4.9	0.0019 U	0.00074 U	20	0.00037 U	0.00074 U	0.0029 J
	2023	0.0135 J	0.000206 U	0.0287	0.0195	0.000123 U	0.000156 U	163 J	0.000567 U	0.000161 U	0.000373 U	35.6	0.00074 U	36.9	0.498	0.000079 U	0.000124 U	4.55	0.000286 U	0.000103 U	16.2	0.000134 U	0.000818 U	0.00412 U
	2024	0.0193 U	0.001 U	0.0335	0.0178	0.0002 U	0.0003 U	142	0.003 U	0.0003 U	0.0003 U	39.3	0.0005 U	36.5	0.522	0.000087 J+	0.0006 U	4.2	0.0015 U	0.0003 U	16.2 J	0.0006 U	0.0003 U	0.0033 U
	2013	0.15	0.00052 U	0.0018	0.81	0.00027 U	0.00027 U	36	0.0018 J	0.00057 J	0.00027 J	1	0.00098 J	7.2	0.08	0.00057 J	0.0001 U	2.4	0.0015 U	0.00018 U	72	0.00025 J	0.0006 J	0.019 J
2014	0.038 J	0.001 U	0.064	0.005 U	0.0005 U	0.0005 U	48	0.0014 J	0.00018 J	0.00013 J	0.71	0.00029 J	9.5	0.069	0.0001 U	0.00022 J	2.5	0.0025 U	0.0005 U	10	0.0005 U	0.0005 U	0.0043 J	
2015	6.5	0.00082 J	0.034	0.085	0.00029 J	0.00029 J																		

Well Units	Year	ALUMINUM mg/L	ANTIMONY mg/L	ARSENIC mg/L	BARIUM mg/L	BERYLLIUM mg/L	CADMIUM mg/L	CALCIUM mg/L	CHROMIUM, TOTAL mg/L	COBALT mg/L	COPPER mg/L	IRON mg/L	LEAD mg/L	MAGNESIUM mg/L	MANGANESE mg/L	MERCURY mg/L	NICKEL mg/L	POTASSIUM mg/L	SELENIUM mg/L	SILVER mg/L	SODIUM mg/L	THALLIUM mg/L	VANADIUM mg/L	ZINC mg/Lg/L	
MW-44 (Filtered)	2015	0.0025 U	0.00056 J	0.001 U	0.1	0.0005 U	0.0005 U	32	0.0005 U	0.12 J	0.0005 U	0.12 J	0.0017 J	7.1	0.018	0.0005 U	0.00069 J	1.6	0.0025 U	0.0005 U	4.7	0.0005 U	0.0005 U	0.0005 U	0.0029 J
	2016	0.23 J	0.0005 J	0.001 U	0.25	0.0005 U	0.0005 U	56	0.0005 U	0.00048 J	0.00051 J	0.62 U	0.0005 U	12	0.2	0.0001 U	0.0031 J	2.5 J	0.0025 U	0.0005 U	13	0.0005 U	0.0005 U	0.0005 U	0.013 J
	2017	0.0027 U	0.0005 U	0.001 U	0.17	0.0005 U	0.0005 U	38	0.0005 U	0.00015 J	0.00052 J	0.32	0.0005 U	8.8	0.0005 U	0.0005 U	0.0022 J	1.7	0.0025 U	0.0005 U	5.6	0.0005 U	0.0005 U	0.0005 U	0.0096 J
	2018	0.0078 J	0.00075 U	0.001 U	0.12	0.0005 U	0.0005 U	48	0.00044 J	0.00029 J	0.0015 U	0.5	0.0005 U	10	0.039	0.0001 U	0.0023 J	1.6	0.0025 U	0.0005 U	4	0.0005 U	0.0005 U	0.0005 U	0.0083 J
	2019	0.8	0.00074 U	0.0011 U	0.27	0.0005 J	0.00063 J	27.6	0.0005 J	0.0011 J	0.0026 J	0.019 U	3.5	0.00074 U	13.4	0.038	0.0005 U	0.0098	3	0.0019 U	0.00074 U	186	0.0003 U	0.00074 U	0.005
	2020	0.03 U	0.00074 U	0.0011 U	0.37	0.00037 U	0.00037 U	59.1	0.00074 U	0.0019 U	0.0019 U	0.064 U	0.00074 U	13.7	0.22	0.0008 U	0.0019 U	3.2	0.0019 U	0.00074 U	18.6	0.00037 U	0.00074 U	0.00074 U	0.02
	2021	0.03 U	0.0002 U	0.0011 U	0.3	0.00037 U	0.00037 U	89.2	0.00037 U	0.0019 U	0.0019 U	0.28	0.00074 U	15.5	0.00037 U	0.00037 U	0.0019 U	3.1	0.0019 U	0.00074 U	12.6	0.00037 U	0.00074 U	0.00074 U	0.0066 U
	2022	0.03 U	0.00074 U	0.0011 U	0.37	0.00037 U	0.00037 U	74.5	0.0019 U	0.00074 U	0.00074 U	0.28	0.00074 U	16.5	0.00074 U	0.00074 U	0.0019 U	3.3	0.0019 U	0.00037 U	15.4	0.00037 U	0.00074 U	0.00074 U	0.0019 U
	2023	0.0193 U	0.001 U	0.002 U	0.174	0.0002 U	0.0003 U	76.9	0.003 U	0.0003 U	0.0003 U	0.00089 J+	0.023 U	0.0005 U	14.9	0.164	0.00067 U	0.00115 J	2.1	0.0015 U	0.0003 U	6.72 J	0.0006 U	0.0003 U	0.0049 J
	2015	0.0069 J	0.0015 J	0.001 U	0.47	0.0005 U	0.0005 U	91	0.0025 J	0.0012 J	0.0025 J	0.68	0.0025 J	22	0.11	0.0001 U	0.0091 J	2.3	0.0042 J	0.0005 U	120	0.0005 U	0.00072 J	0.0005 U	0.0046 J
2017	5.7	0.00075 U	0.0025	0.097	0.007 J	0.0005 U	15	0.009 J	0.0036 J	0.019	4.6	0.0042	4.4	0.29	0.0001 U	0.029	3.9	0.0025 U	0.0005 U	8.3	0.0005 U	0.0006	0.0096	0.029 J	
2018	1.5	0.00075 U	0.001 U	0.049	0.00034 J	0.00013	12	0.004 J	0.0067 J	0.0015	0.83	0.0011	3.5	0.16	0.0001 U	0.019	2.5	0.0025 U	0.0005 U	7.4	0.0005 U	0.0028 J	0.0008 J	0.033 J	
2019	0.032 J	0.00074 U	0.001 U	0.054	0.0003 U	0.00037 U	13.9	0.00074 U	0.0019 U	0.003 J	0.15	0.00074 U	4.7	0.073	0.00016 U	0.016	2.1	0.0019 U	0.00074 U	8.1	0.0003 U	0.00074 U	0.00074 U	0.013	
2020	3.8	0.00074 U	0.0029 J	0.083	0.00065 J	0.00023 J	10.4	0.0061	0.0023 J	0.02	4.1	0.0045	3.9	0.16	0.00074 U	0.023	4.4	0.0019 U	0.00074 U	6.4	0.0003 U	0.00074 U	0.00074 U	0.019	
2021	10.5	0.01 U	0.0093 U	0.15	0.0014 U	0.00074 U	10.4	0.013	0.0048 J	0.03	7.4	0.0072	4.5	0.13	0.00018 J	0.023	5.5	0.0073 U	0.0014 U	6.7	0.0003 U	0.016	0.026	0.035	
2023	12.8	0.0002 U	0.0086	0.228	0.00161	0.000323 J	10.8	0.0219	0.0143	0.0656	12.9	0.0196	5.06	0.281	0.000436 J	0.0336	5.18	0.000436 J	0.0001 U	6.42	0.000169 J	0.024	0.016	0.0567	
2024	1.09	0.001 U	0.00213 J	0.106	0.000548	0.0003 U	17.5	0.003 U	0.00196	0.00676	0.912	0.00135 J	6.67	0.0787	0.000667 U	0.0191	2.81	0.0015 U	0.0003 U	9.85 J	0.0006 U	0.00422 J	0.0148 J		
2017	0.033 J	0.00075 U	0.001 U	0.052	0.00096 J	0.0014 J	14	0.00096 J	0.0014 J	0.0015 J	0.15 J	0.0025 U	2.4	0.24	0.0002 U	0.024	2.4	0.0025 U	0.0005 U	7.2	0.0005 U	0.0005 U	0.0025 U	0.012 J	
2018	0.023 J	0.00075 U	0.001 U	0.038	0.0005 U	0.00074 U	12	0.0023 J	0.0016 J	0.0032 J	0.097 J	0.0005 U	3.6	0.18	0.0001 U	0.019	1.9	0.0025 U	0.0005 U	6.2	0.0005 U	0.0005 U	0.0005 U	0.018 J	
2019	0.03 J	0.00074 U	0.0011 U	0.13	0.00037 U	0.00019 U	7.9	0.0014 J	0.0019 U	0.0019 U	0.25	0.00074 U	5.3	0.012	0.00067 J	0.013	2.4	0.0019 U	0.00074 U	7.2	0.00037 U	0.00074 U	0.00074 U	0.024	
2021	0.18	0.0066 U	0.0026 U	0.061	0.0013 U	0.00066 U	11.7	0.0016 U	0.0017 J	0.0071 J	0.28	0.002 U	3.8	0.07	0.0003 U	0.016 J	2.4	0.0066 U	0.0013 U	6.9	0.0066 U	0.0016 U	0.0016 U	0.0089 U	
2024	5.93	0.001 U	0.00456 J	0.142	0.00095	0.0003 U	15.7	0.00885 J	0.00407	0.025	5.21	0.00608	5.96	0.111	0.000067 U	0.0234	3.92	0.0015 U	0.0003 U	8.47 J	0.0006 U	0.014 J	0.006	0.0281	
2017	0.014 U	0.00095 J	0.001 U	0.09	0.0005 U	0.0005 U	24	0.00076 J	0.0005 U	0.00054 J	0.16 J	0.00027 J	5.3	0.024	0.0001 U	0.023 J	0.91	0.0025 U	0.00026 J	4.1	0.0005 U	0.0005 U	0.0005 U	0.005 J	
2016	0.027 J	0.00021 J	0.001 U	0.048	0.0005 U	0.00021 J	130	0.0005 U	0.00072 J	0.0005 U	0.62 U	0.004 J	34	0.058	0.0001 U	0.044 J	5.7	0.0005 U	0.0001 U	13	0.0005 U	0.0005 U	0.0005 U	0.026 J	
2017	0.0014 U	0.00075 U	0.001 U	0.09	0.0005 U	0.0005 U	22	0.00044 J	0.0005 U	0.0015 U	0.17 J	0.0005 U	5.5	0.022	0.0001 U	0.023 J	0.86	0.0025 U	0.0005 U	3.9	0.0005 U	0.0005 U	0.0005 U	0.005 U	
2014	0.087	0.0003 U	0.00044 J	0.001 U	0.29	0.00044 J	57	0.00032 J	0.0005 J	0.0032 J	1.1	0.00059 J	2.2	0.12	0.0001 U	0.028 J	2.2	0.0019 U	0.00018 J	7.8	0.00018 J	0.00078 J	0.00078 J	0.0076 J	
2015	0.0057 J	0.00052 U	0.001 U	0.24	0.0005 U	0.0005 U	60	0.0017 J	0.0005 U	0.0005 U	0.28	0.0005 U	12	0.062	0.0001 U	0.0014 J	2.6	0.0025 U	0.00054 J	7.9	0.0005 U	0.0005 U	0.0005 U	0.0018 U	
2016	0.018 J	0.00024 J	0.002 U	0.28	0.001 U	0.001 U	50	0.0015 J	0.001 U	0.003 J	0.44 J	0.0005 J	10	0.096	0.0005 J	0.003 J	1.8	0.0005 U	0.0005 U	6.8	0.001 U	0.001 U	0.001 U	0.0074 U	
2017	0.036 J	0.00075 U	0.001 U	0.29	0.0005 U	0.0005 U	53	0.0006 J	0.00025 J	0.00076 J	0.83	0.0005 U	12	0.13	0.0001 U	0.0029 J	2.1	0.0025 U	0.0005 U	9	0.0005 U	0.0005 U	0.0005 U	0.0078 J	
2020	1.6	0.00074 U	0.003 U	0.37	0.0003 U	0.00037 U	52	0.0019 J	0.0033 J	0.002 J	4.4	0.0019 J	13	0.16	0.0001 U	0.015	2.6	0.0019 U	0.00074 U	7.7	0.0003 U	0.00074 U	0.00074 U	0.012	
2021	1.8	0.01 U	0.0093 U	0.41	0.0014 U	0.00073 U	54.7	0.015	0.002 U	0.012 J	3.4	0.0038 J	12.3	0.16	0.00016 U	0.011	2.9	0.0073 U	0.0014 U	8.7	0.0003 U	0.00074 U	0.00074 U	0.013 J	
2022	0.03 U	0.00074 U	0.001 U	0.4	0.0003 U	0.00037 U	54.3	0.00074 U	0.00027 J	0.00074 U	0.89	0.00074 U	12.8	0.15	0.00074 U	0.0025 U	2.2	0.0019 U	0.00074 U	8.9	0.0003 U	0.00074 U	0.00074 U	0.0019 U	
2023	0.012 U	0.00022 U	0.00068 U	0.28	0.000119 U	0.000119 U	57.2	0.00055 U	0.000119 U	0.000119 U	0.522	0.000119 U	12.6	0.134	0.000027 U	0.000462 J	2.05	0.000119 U	0.000119 U	7.68	0.000119 U	0.000119 U	0.000119 U	0.0044 U	
2024	0.0193 U	0.001 U	0.002 U	0.406	0.0002 U	0.00031 U	54.8	0.0003 U	0.00031 U	0.00031 U	1.01	0.0003 U	11	0.155	0.000067 U	0.00066 U	2.21	0.0003 U	0.0003 U	7.5	0.0003 U	0.0003 U	0.0003 U	0.0037 J	
2014	0.0016 J	0.0012 J	0.001 U	0.27	0.0006 J	0.00025 U	54	0.0006 J	0.00025 U	0.00025 U	0.28	0.0005 U	11	0.11	0.0001 U	0.002 J	2.2	0.0025 U	0.0005 J	7.5	0.0005 J	0.0005 J	0.00074 J	0.0025 U	
2015	0.0099 J	0.001 U	0.001 U	0.25	0.0005 U	0.0005 U	60	0.0025 J	0.00017 J	0.0005 U	0.28	0.0005 U	14	0.066	0.0001 U	0.0018 J	2.6	0.0025 U	0.0005 U	8.9	0.0005 U	0.0005 U	0.0005 U	0.0025 U	
2016	0.036 J	0.00075 U	0.001 U	0.31	0.0005 U	0.0005 U	50	0.0005 U	0.00025 J	0.00093 J	0.39 J	0.0005 U	11	0.094	0.0001 U	0.0027 J	2.1	0.0025 U	0.0005 U	7.1	0.0005 U	0.0005 U	0.0005 U	0.019 J	
2017	0.005 U	0.00075 U	0.001 U	0.29	0.0005 U	0.0005 U	52	0.0005 U	0.00022 J	0.0015 U	0.76	0.0005 U	12	0.13	0.0001 U	0.0026 J	2	0.0025 U	0.0005 U	8.9	0.0005 U	0.0005 U	0.0005 U	0.005 U	
2020	0.03 U	0.00074 U	0.0011 U	0.33	0.00037 U	0.00037 U	48.8	0.00074 U	0.0019 U	0.0019 U	0.84	0.00074 U	12.4	0.12	0.0003 U	0.0019 U	2.2	0.0019 U	0.00074 U	7.7	0.00037 U	0.00074 U	0.00074 U	0.0023 J	
2021	0.033 U	0.00066 U	0.0026 J	0.32	0.0013 U	0.00066 U	53.1	0.0016 U	0.0016 U																

Well Units	Year	ALUMINUM mg/L	ANTIMONY mg/L	ARSENIC mg/L	BARIUM mg/L	BERYLLIUM mg/L	CADMIUM mg/L	CALCIUM mg/L	CHROMIUM, TOTAL mg/L	COBALT mg/L	COPPER mg/L	IRON mg/L	LEAD mg/L	MAGNESIUM mg/L	MANGANESE mg/L	MERCURY mg/L	NICKEL mg/L	POTASSIUM mg/L	SELENIUM mg/L	SILVER mg/L	SODIUM mg/L	THALLIUM mg/L	VANADIUM mg/L	ZINC mg/Lg/L	
PZ-01 (Filtered)	2015	0.0033 J	0.00059 J	0.001 U	0.11	0.0005 U	0.0005 U	24	0.0005 U	0.00034 J	0.0005 U	0.073 J	0.0005 U	7.5	0.12	0.0003 U	0.0011 J	0.0025 U	0.0005 U	6.7	0.0005 U	0.0005 U	0.0005 U	0.0025 U	0.0025 U
	2016	0.0069 J	0.00075 U	0.001 U	0.092	0.0005 U	0.0005 U	20	0.0005 U	0.0005 U	0.0092	0.62 U	0.0005 U	6.5	0.0039 J	0.0001 U	0.0014 J	0.0025 U	0.0005 U	5.1	0.0005 U	0.0005 U	0.0005 U	0.014 J	0.0005 U
	2017	0.005 U	0.00075 U	0.001 U	0.11	0.0005 U	0.0005 U	21	0.0005 U	0.0005 U	0.0015 U	0.19 J	0.0005 U	6.5	0.0021	0.0001 U	0.0019 J	0.0025 U	0.0005 U	5.8	0.0005 U	0.0005 U	0.0005 U	0.005 U	0.0005 U
	2018	0.005 J	0.00032	0.001 U	0.11	0.0005 U	0.0005 U	20	0.00046 J	0.00032 J	0.0015 U	0.21	0.0005 U	6.7	0.0028	0.0001 U	0.0011 J	0.0025 U	0.0005 U	6.9	0.0005 U	0.0005 U	0.0005 U	0.011 J	0.0005 U
	2019	0.03 U	0.00074 U	0.0011 U	0.11	0.00037 U	0.00037 U	19.2	0.00074 U	0.00037 U	0.0019 U	0.16	0.00074 U	6.1	0.0074	0.0003 U	0.0019 U	0.0025 U	0.0005 U	7.2	0.00037 U	0.00074 U	0.00037 U	0.0043 J	0.00037 U
	2020	0.03 U	0.00074 U	0.0011 U	0.065	0.00037 U	0.00037 U	22.1	0.00074 U	0.00037 U	0.0019 U	0.16	0.00074 U	6.7	0.024	0.0003 U	0.0019 U	0.0025 U	0.0005 U	3.8	0.00037 U	0.00074 U	0.00037 U	0.0028 J	0.00037 U
	2021	0.033 U	0.00056 U	0.0016 U	0.13	0.00033 U	0.00033 U	28.2	0.0016 U	0.00033 U	0.0015 U	0.21	0.00033 U	8.6	0.0026 J	0.0003 U	0.0019 U	0.0025 U	0.0005 U	4.5	0.00056 U	0.0016 U	0.00033 U	0.0066 U	0.00033 U
	2022	0.03 U	0.00074 U	0.0011 U	0.12	0.00037 U	0.00037 U	28.2	0.00037 U	0.00037 U	0.0019 U	0.19 U	0.00074 U	8	0.0074	0.0003 U	0.0019 U	0.0025 U	0.0005 U	6.2	0.00037 U	0.00074 U	0.00037 U	0.0019 U	0.00037 U
	2023	0.0124 U	0.000206 U	0.0007 U	0.0932	0.000123 U	0.000123 U	22.1	0.000567 U	0.000161 U	0.000373 U	0.163	0.000124 U	6.35	0.274	0.00079 U	0.000967 J	0.0025 U	0.000386 U	4.21	0.000124 U	0.000103 U	0.000124 U	0.002818 U	0.00412 U
	2024	0.0193 U	0.001 U	0.002 U	0.21	0.0002 U	0.0002 U	56.4	0.0002 U	0.0003 U	0.0003 U	0.033 U	0.0005 U	17.3	0.185	0.00067 U	0.0011 J	0.0025 U	0.000386 U	8.53 J	0.000124 U	0.000103 U	0.000124 U	0.002818 U	0.00412 U
	PZ-08	2017	5.3	0.00075 U	0.00092 J	0.12	0.0004 J	0.0005 U	4.5	0.0089 J	0.0017 J	0.0062	5.9	0.0049	2.4	0.1	0.0001 U	0.011	2.2	0.0025 U	4.1	0.0005 U	0.011	0.0005 U	0.041 J
	PZ-08 (Filtered)	2017	0.029 J	0.00091 J	0.001 U	0.05	0.00062 J	0.0005 U	3.8	0.0062 J	0.0004 J	0.0062 J	0.19 J	0.0005 U	1.9	0.0062 J	0.0001 U	0.0047 J	0.0025 U	0.73	0.0005 U	0.0025 U	0.0005 U	0.025 U	0.021 J
PZ-09	2013	0.038 J	0.00052 U	0.00065 U	0.19	0.00027 U	0.00027 U	13	0.0013 J	0.0005 J	0.00097 J	0.1 J	0.0004 J	7.2	0.017	0.00008 J	0.021	1.3	0.0015 U	4.5	0.00032 J	0.00049 U	0.00049 U	0.011 J	
	2014	0.53	0.001 U	0.25	0.00083 J	0.0015 J	0.0015 J	15	0.0012 J	0.0015 J	0.0015 J	1.5	0.0017	9	0.0033 J	0.0001 U	0.026	1.2	0.0005 U	6	0.00032 J	0.00074 J	0.00074 J	0.017 J	
	2015	0.027 J	0.001 U	0.001 U	0.16	0.0005 U	0.0005 U	9.5	0.0012 J	0.00028 J	0.0005 U	0.12 U	0.0005 U	5.7	0.013	0.0001 U	0.015	0.79	0.0025 U	6.3	0.0005 U	0.0005 U	0.0005 U	0.0018 U	
	2016	0.035 J	0.00075 U	0.001 U	0.13	0.0005 U	0.0005 U	8.1	0.0005 U	0.00024 J	0.0006 J	0.62 U	0.0005 U	5.7	0.012	0.0001 U	0.015	1.1	0.0025 U	7.2	0.0005 U	0.0005 U	0.0005 U	0.012 J	
	2017	0.82	0.00075 U	0.001 U	0.14	0.0005 U	0.0005 U	7.5	0.003 J	0.00064 J	0.0012 J	1.3	0.00068 J	5.3	0.018	0.0001 U	0.015	1.2	0.0025 U	6.3	0.0005 U	0.0016 J	0.0005 U	0.098	
	2018	0.031 J	0.00075 U	0.001 U	0.12	0.0005 U	0.0005 U	6.8	0.0005 U	0.00016 J	0.0003 U	0.084 J	0.00034 J	4.4	0.01	0.0001 U	0.012	1.1	0.0025 U	7.4	0.0005 U	0.0005 U	0.0025 U	0.039 J	
	2019	0.03 U	0.00074 U	0.001 U	0.056	0.0003 U	0.00037 U	14.1	0.00074 U	0.00019 U	0.00033 J	0.074	0.00074 U	4.6	0.076	0.00016 U	0.017	2.3	0.0019 U	8.8	0.0003 U	0.00074 U	0.00074 U	0.012	
	2020	0.17	0.00074 U	0.001 U	0.1	0.0003 U	0.00037 U	6.2	0.0019 U	0.00012 J	0.00019 U	0.56	0.00074 U	4.5	0.012	0.0001 U	0.012	1	0.0019 U	5.1	0.0003 U	0.00074 U	0.00074 U	0.0078	
	2021	0.05 U	0.01 U	0.0093 U	0.12	0.0014 U	0.00073 U	6.1	0.002 U	0.002 U	0.0036 U	0.022 U	0.022 U	4.2	0.0096	0.00016 U	0.011 J	0.99	0.0073 U	4.6	0.0003 U	0.002 U	0.0004 J	0.0084 J	
	2022	0.03 U	0.00074 U	0.001 U	0.11	0.0003 U	0.00037 U	6.9	0.0019 U	0.00019 U	0.0019 U	0.019 U	0.00074 U	4.3	0.0095	0.00016 U	0.012	1.1	0.0019 U	5.2	0.0003 U	0.00074 U	0.00074 U	0.0057	
	2023	0.121	0.0002 U	0.00068 U	0.108	0.000173 J	0.000151 U	6.58	0.00102 J	0.000399 J	0.000362 U	0.085	0.00012 U	4.22	0.0123	0.000164 J	0.0126	1.03	0.000278 U	4.73	0.00013 U	0.00074 U	0.00074 U	0.0061 J	
	2024	0.0596	0.001 U	0.000273 J	0.168	0.000273 J	0.000351 J+	10.9	0.000273 J	0.000351 J+	0.048 J	0.0005 U	7.54	0.0031 U	0.0151	0.00067 U	0.0184	1.35	0.000278 U	7.26 J	0.00013 U	0.00074 U	0.00074 U	0.0104 J	
PZ-09 (Filtered)	2013	0.028 J	0.00052 U	0.00061 U	0.17	0.00025 U	0.00027 U	12	0.00088 J	0.00028 J	0.00054 J	0.048 U	0.00024 U	6.4	0.014	0.00066 U	0.019	1.2	0.0015 U	3.9	0.00016 U	0.00049 U	0.00049 U	0.009 J	
	2014	0.035 J	0.001 U	0.21	0.00027 J	0.00013 J	0.00027 J	14	0.00036 J	0.00013 J	0.00027 J	0.12 U	0.00013 J	8.3	0.025	0.0001 U	0.025	1.1	0.0025 U	5.7	0.0005 U	0.00076 J	0.00076 J	0.011 J	
	2015	0.026 J	0.00062 J	0.001 U	0.17	0.00033 J	0.0005 U	12	0.0021 J	0.00035 J	0.00034 J	0.059 J	0.0005 U	6.3	0.021	0.0001 U	0.017	0.81	0.0016 J	7	0.0005 U	0.0005 U	0.0005 U	0.0084 J	
	2016	0.15 J	0.00075 U	0.001 U	0.13	0.0005 U	0.0005 U	8.4	0.0005 U	0.00027 J	0.0005 U	0.0005 U	0.62 U	5.5	0.014	0.0001 U	0.014	1.1	0.0025 U	7	0.0005 U	0.0005 U	0.0005 U	0.0082 J	
	2017	0.02 J	0.00075 U	0.001 U	0.13	0.0005 U	0.0005 U	7.5	0.0014 J	0.00021 J	0.0005 U	0.06 J	0.0005 U	4.9	0.011	0.0001 U	0.014	1	0.0025 U	6.6	0.0005 U	0.0025 U	0.0004 J	0.0047 J	
	2018	0.018 J	0.0011 J	0.001 U	0.12	0.0005 U	0.0005 U	6.2	0.0005 U	0.00018 J	0.0005 U	0.067 J	0.00028 J	3.9	0.0093	0.0001 U	0.011	0.89	0.0025 U	5.9	0.0005 U	0.0025 U	0.0005 U	0.054	
	2019	0.03 U	0.00074 U	0.0011 U	0.025	0.00037 U	0.00037 U	4.7	0.003	0.00019 U	0.00019 U	0.26	0.00074 U	29.1	0.0023 J	0.00003 U	0.0034 J	2.3	0.0019 U	10.3	0.00037 U	0.00074 U	0.00074 U	0.0066	
	2020	0.03 U	0.00074 U	0.0011 U	0.096	0.00037 U	0.00037 U	66.2	0.00074 U	0.00019 U	0.00019 U	0.19 U	0.00074 U	4.4	0.011	0.00003 U	0.0019 U	0.96	0.0019 U	5.3	0.00037 U	0.00074 U	0.00074 U	0.0096	
	2021	0.033 U	0.00056 U	0.0016 U	0.11	0.00033 U	0.00036 U	6.9	0.0016 U	0.00033 U	0.0016 U	0.02 U	0.0016 U	4.3	0.01	0.00003 U	0.016	1.2	0.00056 U	4.8	0.00056 U	0.0013 U	0.0013 U	0.017 J	
	2022	0.03 U	0.00074 U	0.0011 U	0.12	0.00037 U	0.00037 U	7.4	0.0017 J	0.00019 U	0.00019 U	0.019 U	0.00074 U	4.5	0.0099	0.00003 U	0.013	1.1	0.0019 U	5.5	0.00037 U	0.00074 U	0.00074 U	0.0064	
	2023	0.0215 J	0.000206 U	0.0007 U	0.108	0.000171 J	0.000156 U	6.26	0.00083 J	0.000373 J	0.000373 U	0.0206 U	0.000124 U	4.1	0.00962	0.000079 U	0.0109	1	0.000286 U	4.66	0.000134 U	0.000103 U	0.000134 U	0.00645 J	
	2024	0.0376 J	0.001 U	0.002 U	0.164	0.000238 J	0.0003 U	11.2	0.003 U	0.000401 J+	0.000361 J+	0.00031 U	0.0005 U	7.75	0.015	0.00067 U	0.0189	1.39	0.0015 U	7.35 J	0.00013 U	0.0003 U	0.0003 U	0.00945 J	
SP-DR-01	2013	1	0.001 J	0.0044	0.13	0.0064 J	0.0064 J	17	0.0028 J	0.0062	0.01	0.028 J	5.3	0.01	0.00011 J	0.011	6.2	0.0015 U	0.00018 U	3.2	0.0003 J	0.004	0.0003 J	0.029 J	
	2014	1.6	0.0011 J	0.0026	0.18	0.0027	0.003	21	0.002 J	0.007	0.017	0.0082	14	0.012	0.0001 U	0.016	1.7	0.0029 J	4.8	0.0005 U	0.0058	0.0005 U	0.031 J		
	2015	0.022 J	0.001 U	0.001 U	0.12	0.0005 U	0.0005 U	34	0.00038 J	0.00014 J	0.0005 U	0.024	0.0005 U	7.1	0.0034	0.0001 U	0.0025 U	1.6	0.0025 U	4.7	0.0005 U	0.00043 J	0.00043 J	0.024 J	
	2016	0.77	0.00075 U	0.0033	0.094	0.0005 U	0.0005 U	26	0.00078 J	0.0037 J	0.0016 J	3.1	0.0019	7	4.8	0.0001 U	0.0051 J	1.2 J	0.0025 U						

**Table 6. Comprehensive Radionuclide Sampling Results at SLDA**

Well	Year	AMERICIUM-241	PLUTONIUM-238	PLUTONIUM-239/240	PLUTONIUM-241	THORIUM-228	THORIUM-230	THORIUM-232	TOTAL URANIUM
Units		pCi/L	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L	ug/L
10L31	2013	0.109 J	0.168	0.066 U	-1.23 U	0.524 U	-0.059 U	-0.007 U	0.431
	2014	0.05 U	0.057 U	0.021 U	-0.637 U	0.026 U	-0.024 U	0 U	0.312 J
	2015	0.005 U	0.15 J	0.046 J	-1.28 U	0.054 U	-0.031 U	-0.041 U	0.362
	2016	0.093	0.093 U	-0.063 U	-9.35 U	0.513 J	-0.014 U	0 U	0.374
	2017	0.002 U	0.089 U	0.029 U	3.28 U	0.374 J	-0.005 U	-0.003 U	0.416
	2018	0.015 U	0.154 U	0.035 U	0.834 U	0.058 U	-0.009 U	0 U	0.399
	2019	-0.011 U	0.012 U	0.007 U	4.8 U	0.021 U	0.026 U	-0.003 U	0.3
	2020	0.077 U	0.069 U	0.03 J	10.6 U	0.108 U	0.104 U	0.051 U	0.189 J
	2021	0.0229 U	0.012 U	0.029 U	5.5 U	0.156 U	0.11 U	0.065 U	0.471 J
	2022	0.0748 U	0.119 U	0.137 U	11.1 U	0.506 U	0.502 U	0.365 U	1 U
	2023	-0.0682 UJ	-0.0352 U	0.0572 U	-0.103 U	-0.0746 UJ	0.235 UJ	-0.00554 UJ	0.379 J+
2024	-0.00897 U	-0.00734 U	0.0275 U	-5.52 U	-0.192 U	1.44	-0.112 U	0.507	
10L31 (Filtered)	2013	0.099 J	0.159 J	0.006 U	-1.74 U	0.576 U	-0.065 U	-0.03 U	0.402
	2014	0.053 J	0.08 U	0.027 U	-0.29 U	0.005 U	0.009 U	0 U	0.31 J
	2015	0.03 U	0.089 J	-0.01 U	-0.739 U	-0.027 U	0.011 U	0 U	0.407
	2016	-0.034 U	0.07 U	-0.023 U	-6.5 U	0.372 U	-0.079 U	-0.001 U	0.392
	2017	0.037 U	0.141 U	0.06 U	4.73 U	0.346 J	-0.015 U	0 U	0.345 J
	2018	0.027 U	0.102 U	0.104 J	-0.055 U	0.106 U	0.025 U	0 U	0.424
	2019	-0.021 U	0.023 U	0.006 U	-2.4 U	0.043 U	0.045 U	0.016 U	0.304
	2020	0.078 U	0.082 U	0.031 J	10.8 U	0.101 U	0.109 U	0.039 U	0.188 J
	2021	0.025 U	0.029 U	0.037 U	4.5 U	0.163 U	0.115 U	0.047 U	0.437 J
	2022	0.556 UJ	0.125 U	0.131 U	13.3 U	0.751 U	0.394 U	0.393 U	1 U
	2023	0.0103 UJ	-0.0198 U	0.0326 U	-0.519 U	-0.0776 U	-0.0737 U	-0.00554 U	0.378 J
2024	0.012 U	0.025 U	0.046 U	0.703 U	0.119 U	0.373 U	0.0806 U	0.527	
MW-01	2004	0.834 U		0.683 U	13.5 U			0.379 J	
	2013	0.027 U	0.204 J	0.019 U	3.62 U	0.442 U	-0.04 U	-0.216 U	0.162 J
	2014	0.089 J	0.05 U	0.025 U	1.66 U	-0.151 U	-0.006 U	-0.027 U	0.065 J
	2015	0.026 U	0.203	0.056 U	0.78 U	-0.035 U	-0.009 U	-0.009 U	0.07 U
	2016	0 U	0.097 U	0.065 J	-4.3 U	0.618 J	0.027 U	-0.012 U	0.058 U
	2017	0.013 U	0.11 U	-0.009 U	4.25 U	0.419 J	-0.04 U	-0.004 U	0.075 J
	2018	0.036 U	0.155 J	0.026 U	2.98 J	0.152 J	-0.015 U	0 U	0.179 J
	2019	-0.017 U	0.032 U	0.021 U	2 U	-0.099 U	-0.01 U	0 U	0.021 U
	2020	0.076 U	0.066 U	0.054 U	10.2 U	0.145 U	0.108 U	0.035 U	0.03 U
	2021	0.0293 U	0.026 U	0.036 U	6.6 U	0.159 U	0.111 U	0.066 U	0.042 J
	2022	0.252 U	0.291 U	0.325 U	20.3 U	0.872 U	0.458 U	0.296 U	1 U
2023	0.0825 UJ	-0.0154 U	0.06 U	-2.06 U	-0.112 U	0.0153 U	-0.00554 U	0.114 U	
2024	-0.00373 U	0.000657 U	0.0781 U	0.941 U	-0.036 U	0.355 U	0.0807 U	0.067 U	
MW-01 (Filtered)	2013	0.066 U	0.186 J	0.022 U	8.18 J	0.422 U	-0.005 U	-0.022 U	0.163 J
	2014	-0.053 U	0.051 U	-0.032 U	1.8 U	0.014 U	-0.006 U	-0.026 U	0.067 J
	2015	-0.008 U	0.099 J	0.034 U	-3.62 U	-0.048 U	0 U	0 U	0.076 U
	2016	0.01 U	0.095 U	0.002 U	-3.39 U	0.429 U	-0.071 U	0.021 J	0.068 J
	2017	0.072 J	0.112 U	0.023 U	2.83 U	0.344 J	-0.03 U	0 U	0.06 U
	2018	-0.008 U	0.332 J	0.109 J	-0.824 U	0.039 U	0.012 U	0.012 U	0.18 J
	2019	-0.015 U	-0.021 U	0.001 U	-0.3 U	-0.033 U	0.004 U	0.01 U	0.023 U
	2020	0.076 U	0.035 J	0.026 J	9.6 U	0.146 U	0.119 U	0.032 U	0.032 U
	2021	0.032 U	0.025 U	0.021 U	5.3 U	0.145 U	0.108 U	0.042 U	0.042 J
	2022	0.269 U	0.279 U	0.23 U	19 U	0.762 U	0.558 U	0.238 U	1 U
	2023	-0.0227 UJ	0.0244 U	0.0647 U	-1.8 U	0.0366 U	0.0133 U	0.0431 U	0.117 U
2024	0.0183 U	-0.0163 U	-0.00217 U	-1.28 U	0.0951 U	0.163 U	-0.0335 U	0.067 U	
MW-02	2004	0.503 U		0.529 U	15.7 U			0.429 U	
	2004	R		0.326 U	11.9 U			0.298 J	
MW-02A	2004	1.46 J		R	11.2 U			0.471 J	
	2013	0.047 U	0.221 J	0.091 J	1.04 U	0.571 J	-0.125 U	-0.021 U	0.102 J
	2015	0.014 U	0.101 J	0.071 J	0.764 U	-0.025 U	0.056 J	-0.036 U	-0.004 U
	2016	0.025 U	0.08 U	0.065	1.14 U	0.275 U	0.013 U	0.022 U	0.067 U
	2017	0.047 U	0.127 U	0.013 U	-2.09 U	0.345 J	-0.05 U	0 U	0.072 U
	2018	0.023 U	0.046 U	0.05 J	3.8 J	0.057 U	-0.007 U	-0.005 U	0.118 U
	2019	-0.021 U	0.003 U	0.034 U	2.8 U	0.035 U	-0.008 U	0.005 U	0.078 J
	2020	0.074 U	0.066 U	0.075 U	10.4 U	0.088 U	0.101 U	0.025 U	-0.01 U
	2021	0.055 U	0.049 U	0.022	12.1 U	0.152 U	0.119 U	0.059 U	
	2022	0.133 U	0.127 U	0.135 U	13 U	0.42 U	0.527 U	0.291 U	1 U
	2023	0.0191 U	0.0849 U	0.0453 U	0.112 U	-0.0617 U	0.521 J	0.0584 U	0.114 U
2024	0.0153 U	0.00456 U	0.013 U	3.16 U	-0.0552 U	0.212 U	0.208 U	0.067 U	
MW-02A (Filtered)	2013	-0.048 U	0.049 U	0.038 J	-0.092 U	0.41 U	-0.153 U	-0.048 U	0.093 J
	2015	0.032 U	0.144 J	0.057 J	1.22 U	-0.088 U	0.061 J	0.01 U	0.02 U
	2016	-0.006 U	0.138 J	-0.043 U	-1.14 U	0.544 J	-0.121 U	0 U	0.062 U
	2017	0.181 J	0.233 U	0.015 U	2.89 U	0.404 J	0.018 U	-0.004 U	0.067 U
	2018	-0.01 U	0.285 J	0.028 J	2.25 U	0.114 U	-0.008 U	-0.004 U	0.129 U
	2019	-0.02 U	0.011 U	0.002 U	2.4 U	-0.005 U	0.042 U	0.013 U	0.033 U
	2020	0.099 U	0.068 J	0.056 U	10.4 U	0.153 U	0.107 U	0.045 U	0.02 U
	2021	0.037 U	0.032 U	0.048 U	7.2 U	0.109 U	0.107 U	0.021	
	2022	0.132 U	0.0947 U	0.104 U	14.2 U	0.44 U	0.42 U	0.345 U	1 U
	2023	0.0634 U	0.00286 U	0.0372 U	-1.26 U	0.0333 U	0.166 U	-0.00554 U	
	2024	0.026 U	0.000561 U	0.0387 U	-1.27 U	0.00144 U	0.297 U	-0.0631 U	0.067 U
MW-03	2013	0.042 U	0.164 J	0.01 U	-0.122 U	2.42 J	0.056 U	0.369 J	3.81
	2014	0.163 J	0.146 U	0 U	10.8 J	1.18	0.054 U	0.181 J	1.98
	2015	0.071 J	0 U	0.056 U	5.21 U	0.433	0.138	0.124	1.91
	2016	0.06 J	0.09 U	0.045 J	-0.282 U	0.604 J	0.014 U	0.076 J	1.18
	2018	0.013 U	0.175 J	0.027 J	1.22 U	0.064 U	0.034 J	0.053 J	0.986
	2019	-0.027 U	0 U	0.02 U	10.6 U	0.015 U	0.027 U	0.005 U	0.153 J
MW-03 (Filtered)	2015	0.005 U	0.086 U	0.224	2.35 U	0.591	0.138	0.073	1.86
	2016	0.023 U	0.114 U	-0.065 U	3.02 U	0.437 J	-0.014 U	-0.006 U	1.29
MW-05	2004	1.19 J		0.191 U	12.2 U			0.592 J	
	2014	0.069 J	0.152 J	0.062 J	-0.781 U	-0.058 U	0.033 U	-0.041 U	0.127 U
	2015	0.018 U	0.196	0.041 J	3.51 U	-0.121 U	0.088 J	0.044 U	0.161 J
	2016	0.015 U	0.092 U	0.005 U	-4.8 U	0.53 J	-0.03 U	0.019 U	0.037 U
	2017	-0.005 U	0.084 U	0.028 U	3.41 U	0.565 J	-0.027 U	-0.004 U	0.101 J
	2018	0.072 J	0.161 U	0.022 U	0.111 U	0.034 U	-0.008 U	-0.007 U	0.132 J
	2019	-0.011 U	0.031 U	0.011 U	-2.3 U	-0.037 U	0.073 U	0 U	0.102 J
	2020	0.083 U	0.038 J	0.026 U	10.4 U	0.168 U	0.117 U	0.032 U	0.082 J
	2021	0.024 U	0.013 U	0.013 U	8.5 U	0.107 U	0.108 U	0.027 U	0.15 J
	2022	0.0995 U	0.376 U	0.353 U	32.7 U	0.454 U	0.807 U	0.513 U	1 U
	2023	0.142 UJ	-0.166 U	0.0978 U	0.987 U	-0.16 U	0.845	0.00369 U	0.114 U
2024	0.0384 U	0.0501 U	0.0538 U	-3.97 U	0.158 U	0.00619 U	-0.0322 U	0.067 U	
MW-05 (Filtered)	2014	0.008 U	0 U	0.04 U	3.04 U	0.012 U	-0.016 U	0.019 U	0.105 U
	2015	0.012 U	0.057 U	0.029 J	1.1 U	-0.157 U	-0.025 U	0.013 J	0.153 J
	2016	-0.006 U	0.046 U	-0.013 U	-6.31 U	0.406 U	-0.126 U	-0.016 U	0.079 J
	2017	0.04 U	0.135 U	0.017 U	3.35 U	0.31 J	-0.029 U	0 U	0.112 J
	2018	0.038 U	0.305 U	0.116 J	0.995 U	0.155 J	0.043 J	-0.005 U	0.097 J
	2019	-0.008 U	0.042	0.003 U	-0.5 U	-0.078 U	0.053 U	0.016	0.06 J
	2021	0.027 U	0.01 U	0.024 U	6.4 U	0.134 U	0.108 U	0.034 U	0.109 J
	2022	0.126 U	0.15 U	0.156 U	15.2 U	0.393 U	0.455 U	0.294 U	1 U
	2024	-0.0196 U	0.0648 U	0.0378 U	-4.36 U	0.111 U	0.59 U	0.0882 U	0.067 U
MW-06	2004	0.822 U		R	8.91 U			0.5 J	

Well	Year	AMERICIUM-241	PLUTONIUM-238	PLUTONIUM-239/240	PLUTONIUM-241	THORIUM-228	THORIUM-230	THORIUM-232	TOTAL URANIUM
Units		pCi/L	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L	ug/L
MW-07	2004	0.86 U		0.395 U	11.4 U			0.236 J	
	2013	0.103 J	0.094 J	0.017 U	-4.6 U	0.374 U	-0.008 U	0 U	0.241 J
	2014	0.005 U	0.014 U	0.034 U	3.62 U	-0.021 U	-0.022 U	0 U	0.224 J
	2015	0.053 U	0.117 J	0.002 U	-0.802 U	0.156 J	-0.022 U	0 U	0.176 J
	2017	0.061 J	0.1 J	-0.013 U	-0.147 U	0.37 U	-0.003 U	0 U	0.192 J
	2018	0.043 U	0.23 J	0.053 U	-1.32 U	0.109 U	0.01 U	-0.006 U	0.252 J
	2019	-0.007 U	0.014 U	-0.012 U	11.2	0.071 U	0.034 U	0.007 U	0.107 J
	2020	0.086 U	0.025 U	0.052 U	10.2 U	0.095 U	0.102 U	0.031 U	0.097 J
	2021	0.031 U	0.009	0.02 U	5.6 U	0.144 U	0.113 J	0.042 U	0.15 J
	2022	0.225 U	0.13 U	0.176 U	12.8 U	0.629 U	0.451 U	0.308 U	1 U
	2023	0.0938 U	0.0514 U	0.0452 U	1.59 U	-0.164 UJ	0.163 U	-0.101 UJ	0.114 U
2024	0.0215 U	-0.00313 U	-0.00313 U	6.86 U	-0.0922 UJ	0.363 UJ	-0.00334 UJ	0.129 J	
MW-07 (Filtered)	2013	0.102 J	0.151 J	0.018 U	-2.3 U	0.819 J	-0.039 U	0 U	0.239 J
	2014	0.026 J	0.119 U	0.009 U	7.88 J	-0.012 U	-0.04 U	0 U	0.205 J
	2015	-0.02 U	0.104 J	0.051 U	2.89 U	0 U	0.037 U	0.012 U	0.18 J
	2017	0.001 U	0.097 J	-0.006 U	1.87 U	0.411 U	-0.007 U	-0.004 U	0.172 J
	2018	0.022 U	0.34 J	0.132 J	-0.897 U	0.085 U	0.008 U	0 U	0.245 J
	2019	-0.005 U	-0.013 U	0.008 U	4.7 U	0.012 U	0.03 U	-0.012 U	0.077 J
	2020	0.076 U	0.054 U	0.065 U	10.1 U	0.11 U	0.104 U	0.038 U	0.107 J
	2021	0.03 U	0.026 U	0.033 U	5.9 U	0.129 U	0.11 U	0.041 U	0.152 J
	2022	0.258 U	0.195 U	0.239 U	13.4 U	0.488 U	0.302 U	0.348 U	1 U
	2023	0.186 UJ	0.158 U	0.0515 U	-2.8 UJ	-0.0308 U	0.299 U	0.0499 U	0.117 U
	2024	0.132 U	0.0348 U	-0.00272 U	-0.186 U	-0.00315 U	-0.262 UJ	-0.09 U	0.133 J
MW-08	2004	0.667 U		0.125 U	11.6 U			0.557 J	
	2013	-0.028 U	0.184 J	-0.009 U	1.28 U	0.67 J	0.011 U	-0.007 U	0.103 J
	2014	-0.007 U	0.058 U	0.048 U	2.71 U	-0.177 U	-0.088 U	-0.07 U	0.058 J
	2015	0.07 J	0.103 J	0.007 U	-0.21 U	0.012 U	-0.016 U	-0.018 U	0.078 U
	2016	0.012 U	0.106 J	-0.011 U	1.24 U	0.384 J	-0.129 U	0 U	0.06 U
	2017	0.116 J	0.159 U	0.04 U	2.09 U	-0.01 U	0.017 U	0.041 J	0.077 J
	2018	0.006 U	0.227 J	0.096 U	1.16 U	0.153 J	0.02 U	-0.004 U	0.151 J
	2019	-0.016 U	-0.012 U	0.003 U	3.4 U	0.031 U	0.005 U	0.003 U	0.038 J
	2020	0.073 U	0.046	0.053 U	10.6 U	0.107 U	0.103 U	0.01 J	0.011 U
	2021	0.023 U	0.029 U	0.042 U	5.7 U	0.127 U	0.105 U	0.01 U	0.036 U
	2022	0.123 U	0.123 U	0.0787 U	11.1 U	0.452 U	0.447 U	0.325 U	1 U
2023	0.0623 U	0.0568 U	0.0344 U	-0.235 U	-0.0279 U	0.114 UJ	0.0728 U	0.114 U	
2024	-0.0144 U	0 U	0.104 U	1.32 U	0.00419 U	0.656 U	-0.0798 U	0.067 U	
MW-08 (Filtered)	2013	-0.003 U	0.043 U	0.026 U	-1.74 U	0.15 U	-0.015 U	-0.008 U	0.107 J
	2014	0.003 U	0.068 U	0.059 U	3.81 U	-0.08 U	0.028 U	-0.062 U	0.06 J
	2015	-0.01 U	0.015 U	0.023 U	-0.495 U	0.063 U	-0.029 U	0 U	0.098 U
	2016	0.026 J	0.128 J	0.006 U	0.772 U	0.527 J	-0.011 U	0.018 U	0.08 U
	2017	0.071 J	0.053 U	0.004 U	3.05 U	0.387 J	0.008 U	0.02 J	0.081 J
	2018	0.035 U	0.366 J	0.054 U	-0.514 U	0.15 J	-0.008 U	-0.004 U	0.133 J
	2019	-0.023 U	0.034 U	0.007 U	3.6 U	0 U	0.019 U	0.006 U	0.075 J
	2020	0.081 U	0.024 U	0.026 J	10.1 U	0.135 U	0.104 U	0.025 U	0.007 U
	2021	0.028 U	0.026 U	0.026 U	4.9 U	0.126 U	0.107 U	0.028 U	0.041 J
	2022	0.137 U	0.094 U	0.0642 U	11.5 U	0.825 U	0.433 U	0.432 U	1 U
	2023	0.108 U	0.00145 U	-0.00437 U	-0.572 U	0.0656 U	0.447 J	-0.016 U	0.117 U
2024	-0.0117 U	0.00592 U	0.0651 U	-0.67 U	0.0742 U	0.3 U	0.0843 U	0.067 U	
MW-09A	2004	0.716 U		0.0386 U	9.78 U			0.459 J	
	2013	0.109 U	0.051 U	-0.041 U	5.58 J	0.283 U	-0.027 U	0.037 J	0.154 J
	2014	0.017 U	0.01 U	0.079	0.413 U	-0.159 U	-0.177 U	-0.118 U	0.111 J
	2015	0 U	-0.041 U	0 U	-1.89 U	0.081 U	0.015 U	-0.01 U	0.145 J
	2016	0.081 J	0.128 J	0.013 U	-4.11 U	0.475 J	0.054 U	-0.007 U	0.129 J
	2017	0.002 U	0.111 U	0.012 U	2.85 U	0.385 J	-0.005 U	-0.003 U	0.43
	2018	0.01 U	0.465 J	0.053 U	1.23 U	0.222 J	0.034 J	0 U	0.21 J
	2019	-0.018 U	0.027 U	0.013 U	9.2 U	0.199	0.023 U	-0.003 U	0.188 J
	2020	0.08 U	0.039 J	0.029 J	10.5 U	0.051 U	0.108 U	0.05 U	0.082 J
	2021	0.022 U	0.032 U	0.032 U	6.2 U	0.103 U	0.103 U	0.026 U	0.195 J
	2022	0.189 U	0.0913 U	0.128 U	11.8 U	0.803 U	0.714 U	0.486 U	1 U
2023	0.0104 UJ	0.0503 U	0.0409 U	-0.0242 U	-0.00379 U	0.00736 U	-0.115 UJ	0.114 U	
2024	0.0543 U	-0.00729 U	0.031 U	-2.47 U	0.155 U	0.177 U	0.033 U	0.067 U	
MW-09A (Filtered)	2013	0.141 J	0.205 J	-0.028 U	2.99 U	0.505 U	-0.02 U	0 U	0.174 J
	2014	0.016 U	0.08 J	0.03 U	-0.108 U	-0.004 U	-0.009 U	0.012 U	0.116 J
	2015	0.061 J	0.108 J	0.049 J	-0.042 U	-0.042 U	-0.023 U	0 U	0.168 J
	2016	0.047 J	0.121 U	-0.094 U	-4.74 U	0.323 U	-0.011 U	-0.006 U	0.144 J
	2017	0.072 J	0.106 U	0.045 U	6.4 J	0.445 J	0.006 U	0 U	0.415
	2018	0.03 U	0.329 U	0.104 J	2.33 U	0.19 J	0.015 U	-0.004 U	0.231 J
	2019	-0.013 U	0.017 U	0.021 U	2.4 U	0 U	0.085	0.027 U	0.14 J
	2020	0.079 U	0.038 J	0.025 U	10.1 U	0.109 U	0.106 U	0.025 U	0.031 U
	2021	0.0224 U	0.045 U	0.039 U	6 U	0.111 U	0.108 U	0.035 U	0.235 J
	2022	0.126 U	0.185 U	0.143 U	11.6 U	0.696 U	0.756 U	0.558 U	1 U
	2023	0.0182 UJ	-0.0701 UJ	-0.0126 U	1.37 U	0.0304 UJ	0.245 UJ	-0.0152 UJ	0.117 U
2024	0.0369 U	0.000708 U	-0.0205 U	1.97 U	-0.0898 U	0.796	-0.0506 U	0.067 U	
MW-12D	2004	0.593 U		0.595 U	10.2 U			0.774 J	
MW-13	2004	0.612 U		0.715 U	11.7 U			0.328 J	
	2013	0.068 J	0.033 U	0.027 U	-0.274 U	0.252 U	-0.037 U	-0.019 U	0.137 J
	2014	0.013 U	0.08 U	-0.017 U	-2.35 U	-0.019 U	-0.028 U	0 U	0.123 U
	2015	0.021 U	0.167	0.071 J	4.29 U	0.147 J	0.026 U	-0.013 U	0.085 J
	2016	0.01 U	0.038 U	-0.039 U	0.492 U	0.591 J	-0.011 U	0 U	0.081 U
	2017	-0.002 U	0.213 J	0.013 U	2.62 U	0.333 J	-0.028 U	0 U	0.067 U
	2018	-0.024 U	0.323 U	0.143 J	-0.884 U	0.123 U	0.01 U	0.018 J	0.129 J
	2019	-0.011 U	0.007 U	0.033 J	3.6 U	-0.034 U	0.096 U	0.008 U	0.033 U
	2020	0.078 U	0.024 U	0.051 U	9.7 U	0.104 U	0.109 U	0.029 U	-0.012 U
	2021	0.0217 U	0.03 U	0.038 U	6.4 U	0.135 U	0.108 U	0.034 U	0.214 J
	2022	0.215 U	0.184 U	0.145 U	15.7 U	0.689 U	0.625 U	0.492 U	1 U
2023	0.0297 UJ	0.0383 U	-0.044 U	-0.355 U	-0.0649 U	0.235 U	-0.0153 U	0.114 U	
2024	0.0224 U	0.0726 U	-0.00305 U	-2.21 U	0.246 U	-0.0547 U	-0.0319 U	0.067 U	
MW-13 (Filtered)	2013	0.02 U	0.156 J	0.053 U	-4.75 U	0.457 U	0.06 J	-0.005 U	0.156 J
	2014	-0.012 U	0.153 J	0.03 U	2.33 U	0.017 U	0.008 U	-0.014 U	0.111 U
	2015	0.064 J	0.031 U	0.029 J	3.08 U	-0.039 U	0.012 U	0.062 J	0.082 J
	2016	-0.007 U	0.034 U	0.024 U	3.43 U	0.327 U	-0.082 U	-0.001 U	0.089 U
	2017	0.026 U	0.135 U	0.037 U	5.1 U	0.273 J	-0.004 U	-0.004 U	0.07 U
	2018	0.028 U	0.541 J	0.183 J	1.6 U	0.043 U	-0.008 U	0 U	0.126 J
	2019	0.013 U	0 U	0 U	-1.9 U	0.02 U	0.07 U	-0.002 U	0.028 U
	2020	0.085 U	0.056 U	0.068 U	10.4 U	0.098 U	0.105 U	0.033 U	-0.02 U
	2021	0.024 U	0.027 U	0.021	5.7 U	0.131 U	0.104 U	0.034 U	0.252 J
	2022	0.144 U	0.102 U	0.169 U	14.2 U	0.705 U	0.493 U	0.491 U	1 U
	2023	0.0258 UJ	0.0966 U	0.0443 U	-0.346 U	-0.0404 U	0.461	0.0135 U	0.117 U
2024	0.0616 U	0.00724 U	0.0145 U	1.27 U	-0.0199 U	0.105 U	0.0519 U	0.067 U	

Well	Year	AMERICIUM-241	PLUTONIUM-238	PLUTONIUM-239/240	PLUTONIUM-241	THORIUM-228	THORIUM-230	THORIUM-232	TOTAL URANIUM
Units		pCi/L	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L	ug/L
MW-14	2004	0.675 U		0.494 U	10.7 U			0.341 J	
	2013	0.057 U	0.1 J	0.1 U	-0.698 U	0.828 J	-0.027 U	0 U	0.098 J
	2014	0.034 J	-0.011 U	0.043 U	0.602 U	0.128 J	-0.017 U	-0.017 U	0.032 U
	2015	-0.099 U	0.388 J	0.053 U	0.847 U	4.15	0.051 U	0.051	1.06
	2016	-0.005 U	-0.012 U	-0.058 U	-0.654 U	0.635 J	0.038 J	-0.006 U	0.088 U
	2017	-0.012 U	0.234 J	0.046 U	0.232 U	0.411 U	0.018 J	-0.004 U	0.029 U
	2018	0.038 U	0.421 J	0.058 U	-0.58 U	0.123 U	0.041 J	0.011 U	0.124 J
	2019	-0.023 U	0.037 U	0.003 U	-1.5 U	-0.017 U	0.036 U	0.014 U	0.184 J
	2020	0.075 U	0.067 U	0.067 U	11 U	0.109 U	0.107 U	0.037 U	-0.028 U
	2021	0.024 U	0.059 U	0.037 U	7.4 U	0.121	0.105 U	0.026 U	0.175 J
	2022	0.128 U	0.092 U	0.092 U	12.1 U	0.774 U	0.647 U	0.68 U	1 U
	2023	-0.118 UJ	0.0994	0.0451 U	1.13 U	0.0762 U	0.285 U	0.000835 U	0.114 U
2024	-0.00422 U	-0.0127 U	-0.07 U	-1.44 U	-0.165 U	0.176 U	-0.0381 U	0.067 U	
MW-14 (Filtered)	2013	0.108 J	0.035 U	0.124 J	-3.51 U	0.886 J	-0.022 U	0 U	0.099 J
	2014	-0.031 U	0.103 U	0.056 J	2.05 U	-0.098 U	-0.072 U	-0.045 U	0.031 U
	2015	-0.031 U	0.081 J	0.052 U	-0.301 U	-0.018 U	0.034 U	-0.025 U	0.076 U
	2016	0.007 U	0.091 J	-0.024 U	-3.38 U	0.345 J	0.01 U	-0.006 U	0.069 U
	2017	0.096 J	0.122 J	0.054 U	-2.68 U	0.339 U	0.014 U	0.015 J	0.028 U
	2018	0.04 U	0.218 J	0.071 U	0.319 U	0.171 J	0.035 J	-0.005 U	0.123 J
	2019	-0.03 U	-0.012 U	0.011 U	7.6 U	0.059 U	-0.034 U	0.004 U	0.163 J
	2020	0.079 U	0.059 U	0.059 U	12 U	0.113 U	0.114 J	0.033 U	-0.011 U
	2021	0.0219 U	0.03 U	0.026 U	5.4 U	0.128 U	0.111 U	0.046 U	0.208 J
	2022	0.158 U	0.112 U	0.136 U	14.1 U	0.621 U	0.526 U	0.358 U	1 U
	2023	0.0576 UJ	-0.0522 U	-0.0296 UJ	0.641 U	-0.0479 U	0.368 J	0.059 U	0.117 U
	2024	0.0256 U	-0.029 U	0.0838 U	0.342 U	-0.0525 U	0.0158 U	0.000699 U	0.067 U
MW-15	2004	0.776 U		0.107 U	12.7 U			0.487 J	
	2013	0.061 U	0.008 U	-0.017 U	4.42 J	0.283 U	0.08 J	-0.035 U	0.263 J
	2014	0.182 J	0.137 U	-0.107 UJ	-2.97 U	0.17	0.036 J	0 U	0.064 U
	2015	0.049 J	0.022 U	0.006 U	5.19 J	0.013 U	0.039 U	-0.065 U	0.053 U
	2016	0.02 U	0.045 U	0 U	-5.09 U	0.571 J	-0.078 U	-0.001 U	0.085 U
	2017	0.042 U	0.162 J	0.035 U	1.86 U	0.008 U	0.015 U	0.04 J	0.086 J
	2018	-0.003 U	0.117 U	0.068 U	-0.166 U	0.262 J	0.094 J	-0.005 U	0.245 J
	2019	-0.007 U	0.032 U	0.001 U	11 U	-0.005 U	0.025 U	-0.021 U	0.025 U
	2020	0.073 U	0.052 U	0.052 U	10.5 U	0.111 U	0.1 U	0.043 U	0.037 J
	2021	0.0238 U	0.037 U	0.043 U	5.9 U	0.113 U	0.11 U	0.028 U	0.197 J
	2022	0.132 U	0.161 U	0.173 U	12.2 U	0.399 U	0.399 U	0.314 U	1 U
	2023	-0.0254 UJ	-0.0178 U	-0.0041 U	0.0504 U	-0.00893 U	0.122 U	0.019 U	0.162 J
2024	0.0102 U	-0.0123 U	0.0644 U	-6.59 U	-0.107 U	1.08	0.0494 U	0.074 J	
MW-15 (Filtered)	2013	0.05 U	0.023 U	0 U	0.708 U	0.557 J	0.032 U	0.023 U	0.061 U
	2014	-0.055 U	-0.024 U	0 U	1.82 U	-0.045 U	-0.011 U	0 U	0.051 U
	2015	0.047 U	0.104	0.02 U	0.37 U	0.095 U	0.026 U	0 U	0.086 J
	2016	0.04 J	0.042 U	0.012 U	-3.35 U	0.628 J	0.002 U	-0.005 U	0.063 U
	2017	0.073 J	0.381 J	0.084 J	-0.204 U	0.267 U	-0.003 U	0 U	0.068 U
	2018	0.006 U	0.216 U	0.117 J	-1.26 U	0.142 J	-0.018 U	0 U	0.107 J
	2019	-0.018 U	0.028 U	0.017 U	9.8 U	0.025 U	-0.001 U	-0.012 U	0.069 J
	2020	0.074 U	0.052 U	0.052 U	10.5 U	0.122 U	0.113 U	0.046 U	0.074 J
	2021	0.026 U	0.037 U	0.055 U	5.8 U	0.131 U	0.112 U	0.047 U	0.158 UJ
	2022	0.18 U	0.198 U	0.198 U	30.2 U	0.601 U	0.599 U	0.469 U	1 U
	2023	0.108 UJ	0.11 U	0.0247 U	-1.32 U	-0.0358 U	-0.00247 U	0.0202 U	0.117 U
	2024	0.0274 U	0.0262 U	0.056 U	-0.274 U	-0.0154 U	0.256 U	-0.0668 U	0.067 U
MW-16BC	2004	0.564 U		0.035 J	12 U			0.468 J	
MW-19	2004	R		R	R			0.459 J	
MW-20	2013	0.026 U	0.16 J	0.006 U	3.32 U	2.41 J	0.413	0.492	2.47
	2014	-0.017 U	0.029 U	0.011 J	-1.93 U	4.23	1.32	0.66	1.61
	2015	-0.014 U	0.116 J	0.012 U	0.741 U	1.62	0.334	0.193 J	2.35
MW-20 (Filtered)	2015	0.025 U	0.117 J	0.073 J	9.13 J	1.42	0.298	0.184	1.49
MW-22	2004	0.458 U		0.532 U	10.6 U			0.478 J	
	2013	0.106 J	0.152 J	0.093	-0.47 U	0.489 J	-0.055 U	0.003 U	0.282 J
	2014	0.007 U	0.034 U	0.051 J	1.98 U	0.226 J	0.067 J	0.084	0.292
	2015	0.015 U	0.171	0.043 U	-1.15 U	-0.051 U	-0.012 U	0 U	0.116 J
	2016	0.011 U	0.016 U	-0.041 U	0.272 U	0.467 J	0.093 J	0.06 J	0.265 J
	2017	0.046 U	0.037 U	0.054 U	1.1 U	0.364 J	0.029 U	0.018 J	0.459
	2018	0.014 U	0.121 U	0.067 U	-0.367 U	0.178 J	0.006 U	0.019 J	0.193 J
	2019	-0.02 U	-0.009 U	0.051 U	12.5	0.48	0.36	0.373	0.771
	2020	0.078 U	0.069 U	0.083 U	12.9 U	0.29	0.181	0.196	0.311
	2021	0.03 U	0.026 U	0.026 U	7.2 U	0.126 U	0.107 U	0.028 U	
	2022	0.581 UJ	0.138 U	0.192 U	16.2 U	0.548 U	0.559 U	0.469 U	1 U
	2023	0.0197 UJ	0.0108 U	0.0216 U	1.41 U	0.0407 U	0.141 U	0.0253 U	0.114 U
2024	0.0132 U	0.0352 U	0.0245 U	-1.41 U	-0.0175 U	-0.0563 U	0.202 U	0.084 J	
MW-22 (Filtered)	2013	0.026 U	0.075 U	0.031 U	0.184 U	0.643 J	-0.039 U	0 U	0.157 J
	2014	0.197	0.025 U	0.025 U	0.484 U	-0.037 U	-0.025 U	-0.007 U	0.059 J
	2015	0.044 U	-0.009 U	0.017 U	8.2 J	0.073 U	-0.035 U	0.012 U	0.095 J
	2016	0.059 J	0.123 J	0 U	-0.187 U	0.663 J	-0.144 U	0.01 U	0.034 U
	2017	-0.003 U	0.119 U	0.088 J	-1.33 U	0.348 J	-0.024 U	0 U	0.103 J
	2018	0.088 J	0.255 U	0.067 U	-0.837 U	0.138 J	0.017 J	-0.004 U	0.105 J
	2019	-0.011 U	0.043 U	0.027 U	10.4 U	-0.016 U	0.012 U	0.021	0.114 J
	2020	0.073 U	0.026 U	0.026 U	10.6 U	0.115 U	0.107 U	0.046 U	-0.014 U
	2021	0.031 U	0.027 U	0.038 U	8.1 U	0.123 U	0.109 U	0.041 U	
	2022	0.301 U	0.126 U	0.0986 U	11.5 U	0.631 U	0.277 U	0.402 U	1 U
	2023	-0.0578 UJ	0.0493 U	0.0145 U	-1.81 U	-0.138 U	0.418 J	-0.0246 U	0.117 U
	2024	-0.0117 U	-0.0188 U	0.0275 U	2.92 U	-0.202 U	1.03	0.0803 U	0.067 U
MW-23	2004	0.635 J		0.255 U	R			0.561 J	
MW-24	2004	0.632 U		0.496 U	10.6 U			0.555 J	
MW-25	2004	1.07 J		0.06 U	11.9 U			R	
MW-26	2004	0.732 U	0.815 U	0.537 U	13 U		0.345 U	0.455 J	
MW-29	2004	0.397 U	0.744 U	0.506 U	11.3 U		0.446 U	0.215 U	
MW-30A	2004	0.912 U		0.383 U	R			0.726 J	
MW-31	2004	0.558 U		0.323 U	12 U			0.502 J	
MW-32	2004	R		0.084 U	12.3 U			0.207 U	
MW-33	2004	0.488 U	0.619 U	0.448 U	11.8 U		0.323 U	0.323 J	
	2013	-0.012 U	-0.055 U	-0.016 U	1.79 U	0.817 J	-0.028 U	0.024 U	0.448
	2014	0.064 U	0.119 U	0.03 U	1.69 U	0.022 U	0.077 J	-0.009 U	0.213 J
	2015	0.053 U	0.103	0.007 U	-0.646 U	0.084 U	0.081 U	0.271	0.513 J
	2016	0.018 U	0.094 U	0.037 J	0.82 U	0.329 J	-0.025 U	0.022 J	0.663
	2017	0.017 U	0.077 U	0.041 U	1.27 U	0.33 U	-0.009 U	0 U	0.221 J
	2018	0.027 U	0.033 U	0.043 U	0.373 U	0.128 U	0.008 U	-0.004 U	0.383 J
	2019	-0.014 U	0.01 U	0.006 U	10.4	0 U	0.033 U	0.021	0.187 J
	2020	0.073 U	0.027 J	0.063 U	10.4 U	0.124 U	0.11 U	0.039 U	0.286
	2021	0.031 U	0.02 U	0.031 U	6.2 U	0.128 U	0.11 U	0.048 U	0.118 J
	2022	0.267 U	0.161 U	0.18 U	15.4 U	0.574 U	0.497 U	0.375 U	1 U
	2023	0.0206 UJ	0.121 U	0.0104 U	-0.695 U	-0.0184 U	0.105 U	0.0211 U	0.115 J
2024	-0.0118 U	0.0731 U	0.0259 U	-3.39 U	0.121 U	0.135 U	-0.104 U	0.145 J	

Well	Year	AMERICIUM-241	PLUTONIUM-238	PLUTONIUM-239/240	PLUTONIUM-241	THORIUM-228	THORIUM-230	THORIUM-232	TOTAL URANIUM
Units		pCi/L	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L	ug/L
MW-33 (Filtered)	2013	0.038 U	0.124 U	0.083 J	0.087 U	0.478 U	0.031 J	0 U	0.295 J
	2014	0.021 U	0.094 U	0.028 U	3.09 U	-0.011 U	-0.031 U	-0.008 U	0.2 J
	2015	0.023 U	-0.039 U	0.057 U	-0.468 U	0.06 U	-0.035 U	-0.012 U	0.259 J
	2016	0.003 U	0.073 U	0.035 J	3.3 U	0.326 J	-0.052 U	-0.005 U	0.28
	2017	0.013 U	0.152 J	0.092 J	-1.3 U	0.269 U	-0.048 U	0 U	0.159 J
	2018	0.062 J	0.144 U	0.053 U	-1.9 U	0.109 U	-0.009 U	-0.004 U	0.361 J
	2019	-0.014 U	0.021 U	0.012 U	11.6 U	0.008 U	0.034 U	0.017 U	0.172 J
	2020	0.077 U	0.067 U	0.076 U	10.3 U	0.11 U	0.101 U	0.039 U	0.339
	2021	0.029 U	0.025 U	0.008 U	5.9 U	0.156 U	0.11 U	0.066 U	0.089 J
	2022	0.273 U	0.179 U	0.148 U	14.9 U	0.496 U	0.386 U	0.409 U	1 U
	2023	-0.0352 UJ	0.0278 U	0.0425 U	0.713 U	-0.0741 U	0.104 U	0.0644 U	0.193 J
2024	0.0573 U	0.0274 U	0.0118 U	2.84 U	0.142 U	0.176 U	0.0521 U	0.142 J	
MW-35	2004	0.882 U		0.101 U	11 U			0.206 J	
MW-36	2004	0.59 U		R	R			0.368 J	
MW-38	2004	R		0.0625 U	12.1 U			0.509 J	
	2017	0.028 U	0.062 U	0.013 U	0.644 U	0.352 J	0.02 U	-0.004 U	0.171 J
MW-38 (Filtered)	2017	0.068 J	0.261 U	0.065 U	-2.7 U	0.301 U	-0.024 U	-0.004 U	0.134 J
MW-39	2004	0.482 U	0.814 U	0.467 U	13.9 U		0.527 J	0.175 U	
	2013	0.003 U	0.074 U	0.012 U	-3.83 U	0.366 U	0.004 U	0 U	0.408
	2014	0.02 U	0.069 U	0.026 U	2.28 U	0.039 U	-0.079 U	-0.049 U	0.143 J
	2015	-0.029 U	0.061 U	0.061	6.9 J	0.415	0.024 U	0.182	0.458
	2016	0.015 U	0.023 U	0.033 J	0 U	0.511 J	-0.248 U	0.011 U	0.504 J
	2017	0.034 U	0.058 U	-0.017 U	1.9 U	0.518 J	0.04 U	0 U	0.903
	2018	0.06 J	0.125 U	0.101 J	1.47 U	0.161 J	-0.007 U	0.02 J	0.173 J
	2020	0.074 U	0.08 U	0.027 U	10.6 U	0.214	0.11 J	0.081	0.451
	2021	0.029 U	0.017 UJ	0.052 UJ	13.6 UJ	0.173	0.108 U	0.115	0.775
	2022	0.207 U	0.0891 U	0.0982 U	12.1 U	0.602 U	0.494 U	0.373 U	1 U
	2023	0.0442 UJ	-0.02 U	-0.00859 U	2.57 U	0.0329 U	0.164 U	0.0544 U	0.123 J+
2024	-0.0916 U	-0.0273 U	-0.0227 U	-0.833 U	-0.0443 U	0.327 U	0.153 U	0.118 J+	
MW-39 (Filtered)	2013	-0.02 U	0.235	0.051 U	-2.47 U	0.309 U	-0.041 U	0 U	0.46
	2014	0.002 U	0.037 U	0.009 U	-1.79 U	0.003 U	0.088 J	0.049 U	0.181 J
	2015	0.018 U	0 U	0.048 J	5.7 J	-0.092 U	0.011 U	-0.011 U	0.103 J
	2016	-0.006 U	0.096 J	-0.04 U	-3.5 U	0.542 J	-0.011 U	0.019 U	0.438 J
	2017	-0.014 U	0.051 U	-0.003 U	-2.15 U	0.372 U	0.022 J	-0.005 U	0.514 J
	2018	-0.015 U	0.08 U	0.079 J	0.61 U	0.142 J	0.014 U	0 U	0.202 J
	2020	0.079 U	0.074 U	0.06 U	11.5 U	0.125 U	0.104 U	0.031 U	0.191 J
	2021	0.028 U	0.011 U	0.04 U	8.9 U	0.119 U	0.105 U	0.035 U	0.201 J
	2022	0.0564 U	0.095 U	0.133 U	13.9 U	0.593 U	0.554 U	0.407 U	1 U
	2023	0.0398 UJ	0.0476 U	0.0188 U	3.86 U	-0.0777 U	0.185 U	0.0715 U	0.126 J+
	2024	-0.0234 U	-0.0262 U	0.0664 U	4.6 U	0.0225 U	-0.163 UJ	0.0311 U	0.134 J+
MW-40	2004	0.681 U		0.185 U	10.3 U			0.245 J	
	2013	0.101 U	-0.016 U	0.107 J	1.18 U	0.791 J	-0.003 U	0.036 J	0.11 J
	2014	-0.005 U	0.023 U	0 U	6.82 J	0.094 J	0.021 U	0 U	0.042 U
	2015	0.056 U	0.057 U	0.023 U	-0.234 U	0.048 U	-0.007 U	0 U	0.096 J
	2016	0.034 U	0.099 U	0.006 U	-6.79 U	0.466 U	-0.061 U	-0.006 U	0.051 U
	2017	0.041 U	0.137 J	0.016 U	7.35 J	0.322 U	-0.027 U	0 U	0.08 J
	2019	-0.01 U	-0.005 U	0.012 U	3.2 U	-0.008 U	0.092 U	0.015 U	0.071 J
	2020	0.077 U	0.03 U	0.064 U	11.8 U	0.131 U	0.113 U	0.027 U	-0.013 U
	2021	0.03 U	0.022 U	0.029	8.3 U	0.121 U	0.114 U	0.038 U	0.054 J
	2022	0.171 U	0.207 U	0.254 U	14.7 U	0.707 U	0.519 U	0.354 U	1 U
	2023	-0.0276 UJ	0.0653 U	0.0354 U	0.126 U	0.0664 U	0.0362 U	0.011 U	0.114 U
2024	0.0295 U	0 U	-0.00373 U	-0.0965 U	0.224 UJ	0.757 J	0.32 UJ	0.838	
MW-40 (Filtered)	2013	0.066 U	0.074 U	0.046 U	4.84 J	0.502 U	0.004 U	0 U	0.099 J
	2014	0.043 U	0.13 U	0.044 U	7.37 J	-0.085 U	-0.027 U	0 U	0.038 U
	2015	-0.034 U	-0.1 U	0.02 U	0.562 U	0.033 U	-0.074 U	0 U	0.111 J
	2016	0.048 J	0.155 J	-0.057 U	-8.26 U	0.453 U	-0.031 U	-0.006 U	0.044 U
	2017	0.045 J	0.187 J	0.011 U	-4.39 U	0.291 U	0.013 U	-0.004 U	0.052 U
	2019	-0.014 U	0 U	0.017 U	1 U	0.055 U	0.031 U	0.011 U	0.042 J
	2020	0.071 U	0.052 U	0.063 U	9.7 U	0.108 U	0.109 U	0.027 U	-0.013 U
	2021	0.0272 U	0.006 U	0.017	5.5 U	0.129 U	0.124 U	0.035 U	
	2021								0.042 J
	2022	0.452 U	0.259 U	0.356 U	19.7 U	0.517 U	0.477 U	0.304 U	1 U
	2023	-0.0655 UJ	0.0701 U	0.0288 U	0.486 U	-0.0622 U	0.185 U	-0.014 U	0.117 U
2024	-0.0084 U	-0.0428 U	0.0678 U	2.54 U	0.0226 U	0.071 U	0.26 U	0.301	
MW-41	2004	0.646 U		0.376 U	11.3 U			0.481 J	
MW-43	2004	0.691 U		0.0715 U	10.7 U			0.228 J	
MW-44	2015	-0.042 U	0.183 J	0.043 J	6.32 U	0.027 U	0.039	0 U	0.375
	2016	0.094 J	0.009 U	0.031 J	4.16 U	0.369 J	-0.049 U	-0.005 U	1.06
	2017	0.161 J	0.15 J	0.003 U	2.93 U	0.434 U	-0.005 U	0.01 J	0.567 J
	2018	-0.011 U	0.121 U	0.016 U	0.164 U	0.649 J	0.32	0.453	17.7
	2019	0.01 U	-0.005 U	0.01 U	12.4 U	0.63	0.4	0.419	1.7
	2020	0.073 U	0.048 J	0.026 U	10.4 U	0.106 U	0.101 U	0.105	1.57
	2021	0.0282 U	0.018 U	0.024 U	5.1 U	0.167	0.114 U	0.029 U	2.3
	2022	0.245 U	0.146 U	0.177 U	13.5 U	0.596 U	0.537 U	0.354 U	1 U
	2023	-0.0513 U	0.0564 UJ	0.0434 U	0.11 UJ	-0.0371 U	0.216 U	-0.0202 UJ	2.6
	2024	0.0688 U	0.00207 U	0.0207 U	5.9 U	0.113 U	0.232 U	0.0187 U	0.992
	MW-44 (Filtered)	2015	0.096 J	0.148 J	0.053 J	1.44 U	-0.129 U	0.014 U	-0.028 U
2016		0.029 J	0.102 U	0.021 U	-9.23 U	0.465 U	-0.095 U	0 U	1.23
2017		0.025 U	0.169 J	0.001 U	1.2 U	0.381 U	-0.032 U	-0.005 U	0.387 J
2018		0.037 U	0.091 U	0.056 J	1.69 U	0.051 U	0.016 J	0.016 U	0.326 J
2019		-0.009 U	0.004 U	-0.003 U	3.7 U	0.045 U	0.004 U	0.007 U	0.521
2020		0.077 U	0.025 U	0.052 U	10.1 U	0.127 U	0.105 U	0.014 J	1.57
2021		0.028 U	0.0054	0.0107	4.8 U	0.177 U	0.129 U	0.067 U	1.52
2022		0.358 U	0.23 U	0.237 U	14.4 U	0.644 U	0.733 U	0.499 U	1 U
2023		0.0936 U	0.00337 U	0.0169 U	0.132 U	0.099 U	-0.00258 U	-0.019 U	
2024		-0.0169 U	-0.00475 U	0.106 U	-4.95 U	-0.0729 U	0.123 U	-0.0355 U	0.66 J+
MW-45	2019	-0.016 U	0.01 U	0.038 U	4.1 U	1.37	1.1	0.8	9.36
MW-45 (Filtered)	2015	0.008 U	0.149 J	0.054 J	1.4 U	0.03 U	0 U	0.015 U	5.91
MW-47	2017	0.007 U	0.088 U	0.05 U	2.29 U	0.531 J	0.084 J	0.058	1.05
	2018	0.073 J	0.035 U	0.07 U	-0.308 U	0.141 J	0.019 U	0.018 J	0.533 J
	2019	-0.017 U	0.026 U	0.036 U	-4.2 U	0.078	0.053 U	0.063	0.853
	2020	0.075 U	0.057 U	0.069 U	10.6 U	0.52	0.46	0.4	1.97
	2021	0.028 U	0.033 U	0.01 U	6.5 U	0.109 U	0.122	0.039	0.84 J
	2022	0.245 U	0.208 U	0.222 U	14.1 U	0.574 U	0.381 U	0.452 U	1 U
	2023	0.223 UJ	0.0664 U	0.0455 U	0.774 U	0.49 U	0.401 U	0.631	4.25 J+
	2024	0.00928 U	0.0189 U	0.0224 U	3.62 U	0.12 U	0.41 U	-0.0179 U	0.629
MW-47 (Filtered)	2017	0.021 U	0.093 U	0.027 U	4.58 U	0.379 J	-0.004 U	-0.004 U	0.249 J
	2018	0.046 U	0.092 U	0.036 U	-0.246 U	0.106 U	0.008 U	0.015 J	0.229 J
	2019	0.002 U	-0.009 U	0.124	5.3 U	0.008 U	0.02 U	-0.013 U	0.255 J
	2021	0.03 U	0.02 U	0.02 U	5 U	0.16	0.12 U	0.093	0.498
	2022	0.259 U	0.178 U	0.243 U	15.7 U	0.834 U	0.738 U	0.56 U	2.98
	2023	0.0519 UJ	-0.0485 U	0.0445 U	-0.376 U	0.0556 U	0.232 U	0.00462 U	
	2024	0.0535 U	0.000692 U	0.018 U	-5.21 U	0.041 U	0.175 U	0.0527 U	1.35
	MW-50	2016	0.088	0.1 U	0.024 J	2.44 U	0.392 J	0.007 U	0 U
2017		0.033 U	0.085 J	0.004 U	3.73 U	0.281 U	0.03 U	0.024 J	0.393 J
MW-50 (Filtered)	2016	0.051 J	0.031 U	0.003 U	1.31 U	0.352 J	-0.081 U	-0.001 U	0.811
	2017	0.057 U	0.133 J	0.041 J	2.57 U	0.75 J	-0.004 U	0 U	0.547 J

Well	Year	AMERICIUM-241	PLUTONIUM-238	PLUTONIUM-239/240	PLUTONIUM-241	THORIUM-228	THORIUM-230	THORIUM-232	TOTAL URANIUM
Units		pCi/L	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L	ug/L
MW-51	2004	1.01 J		0.0843 U	10.7 U			0.335 J	
	2014	0.03 U	0.104 U	0.016 U	9.72 J	-0.055 U	-0.047 U	0.022 U	0.247 J
	2015	0.046 U	0.077 U	0.029 J	-5.33 U	-0.071 U	0.055 U	0.014 U	0.356
	2016	-0.007 U	0.056 U	0.019 U	0.205 U	0.091 U	-0.143 U	-0.015 U	0.231
	2017	0.022 U	0.177 U	0.03 U	0.881 U	-0.013 U	0.029 U	0.017 J	0.305 J
	2018	0.031 U	0.164 J	0.044 J	-0.504 U	0.463 J	0.012 U	0.093 J	9.48
	2020	0.08 U	0.065 U	0.025 U	10 U	0.28	0.104 U	0.085	0.574
	2021	0.029 U	0.012	0.024 U	5.9 U	0.191	0.114 U	0.058	0.403
	2022	0.102 U	0.204 U	0.113 U	13.3 U	0.483 U	0.462 U	0.347 U	1 U
	2023	-0.0133 U	0.0937 U	0.0175 U	0.241 U	-0.0587 U	0.533 J	0.0283 U	0.239 J
2024	0.0205 U	-0.0168 U	0.0926 U	1.98 U	0.0227 U	0.288 U	0.0393 U	0.146 J	
MW-51 (Filtered)	2014	0.032 U	0.153 U	0.029 U	3.89 U	-0.051 U	-0.075 U	0 U	0.234 J
	2015	0.076	0.145 J	0.022 U	-0.83 U	-0.015 U	-0.015 U	-0.015 U	0.362
	2016	-0.034 U	0.001 U	0.012 U	2.71 U	0.49 J	-0.285 U	-0.012 U	0.239
	2017	0.036 U	0.297 J	0.101 J	-1.54 U	0.167 U	-0.003 U	0 U	0.294 J
	2020	0.075 U	0.067 U	0.048 J	10.6 U	0.11 U	0.103 U	0.032 U	0.354
	2021	0.037 U	0.024 U	0.019 U	6.1 U	0.13 U	0.109 U	0.028 U	0.232 J
	2022	0.35 U	0.221 U	0.193 U	12.2 U	1.35 U	1.15 U	1.05 U	1 U
	2023	-0.143 U	-0.0521 U	0.0174 U	-2.05 U	-0.0788 U	0.339 J	-0.00554 U	0.258 J
2024	0 U	0.0593 U	0.0141 U	-1.98 U	-0.32 U	0.0485 U	-0.152 U	0.148 J	
MW-52	2004	0.901 U		0.2 U	11 U			0.487 J	
	2013	0.041 U	0.155 J	0.026 U	-0.098 U	0.437 U	-0.027 U	-0.007 U	0.233 J
	2014	0.088 J	0.028 U	0.033 U	2.3 U	0.033 U	-0.011 U	0.027 J	0.216 J
	2015	0.075 J	0.115	-0.042 U	3.45 U	-0.069 U	-0.027 U	0.04 J	0.506 J
	2018	0.042 U	0.092 U	0.059 J	2.84 J	0.008 U	-0.007 U	0 U	0.47 J
	2019	0.016 U	-0.004 U	0.003 U	9.5 U	0.125	0.067 U	0.051	0.458
	2020	0.074 U	0.079 U	0.027 U	10.5 U	0.119 U	0.101 U	0.027 J	0.093 J
	2021	0.029 U	0.007	0.016 U	5.1 U	0.141 U	0.118 U	0.047 U	0.325
	2022	0.446 U	0.189 U	0.239 U	13.5 U	0.814 U	0.769 U	0.568 U	1 U
	2023	-0.00145 UJ	0.0606 U	0.00988 U	-1.09 U	-0.0819 U	0.18 U	0.103 U	0.114 U
2024	0.0166 U	0.0243 U	0.0056 U	0.207 U	0.0137 U	1.64	0.0311 U	0.126 J	
MW-52 (Filtered)	2013	0.088 J	0.136 J	0.035 U	-2.56 U	0.314 U	-0.015 U	-0.007 U	0.258 J
	2014	0.189 J	0.085 U	-0.003 U	4.09 U	-0.066 U	-0.072 U	0.007 U	0.191 J
	2015	0.077 J	-0.018 U	0.065 U	-6.87 U	0.176 J	0.073 U	0.012 U	0.426 J
	2018	-0.014 U	0.171 J	0.021 U	3.37 J	0.07 U	-0.008 U	-0.004 U	0.41 J
	2019	-0.011 U	0.006 U	0.032 U	14.9	0.024 U	0.005 U	0.003 U	0.339 J
	2020	0.077 U	0.072 U	0.059 U	11.3 U	0.11 U	0.108 U	0.04 U	0.124 J
	2021								0.152 J
	2022	0.277 U	0.441 U	0.573 U	27.7 U	0.756 U	0.785 U	0.569 U	1 U
	2023	-0.00254 UJ	-0.00696 U	-0.00293 UJ	-1.86 U	-0.016 U	0.321 J	0.0291 U	0.149 J
	2024	-0.0126 U	0.025 U	0.0111 U	-8.47 U	0.125 U	0.376 U	-0.0793 U	0.112 J
MW-53	2014	-0.031 U	0.152	-0.012 U	-0.76 U	0.178 J	-0.039 U	0.052 J	7.24
	2015	0.043 J	0.174 J	0.084 J	3.13 U	0.081 U	0.087 J	0 U	3.58
	2016	-0.015 U	0.033 U	0.031 U	5.43 U	0.338 J	0.001 U	-0.006 U	3.29
	2017	-0.041 U	0.079 U	0.007 U	0 U	0.372 J	-0.026 U	-0.004 U	2.84
	2018	0.038 U	0.039 U	0.091 J	0.524 U	1.11 J	0.692	0.647	4.71
	2024	-0.00389 U	0.0669 U	-0.0146 U	-3.1 U	0.111 U	0.67 U	0.0602 U	2.33
	MW-53 (Filtered)	2014	0.041 U	0.084 J	0.017 U	0 U	0.047 U	-0.024 U	0 U
2015		0.09 J	0.174	0.02 U	-2.62 U	-0.112 U	0.015 U	0.092 J	3.99
2016		0.021 U	0.003 U	-0.051 U	3.18 U	0.351 J	-0.117 U	0 U	3.37
2017		0.042 U	0.099 U	0.035 U	-1.24 U	0.368 J	-0.014 U	0 U	2.42
2018		0.083 J	0.226 J	0.015 U	2.4 U	0.433 J	0.145 J	0.184	5.79
2024		0.0728 U	0.131 U	-0.0288 U	-4.1 U	0.0792 U	0.554 U	0.132 U	2.53
MW-56	2004	0.742 U		0.418 U	R			0.411 J	
MW-58	2004	0.498 J	0.634 DL	0.193 U	13.8 DL		0.352 U	0.2 J	
MW-59	2004	0.485 U		0.351 U	10.4 U			0.391 J	
	2013	0.097 U	0.26 J	0.097	4.07 U	0.714 J	-0.004 U	-0.02 U	0.199 J
	2014	-0.012 U	0.091 U	0.038 U	6.26 J	-0.003 U	-0.046 U	0 U	0.176 J
	2015	0.045 U	0.086 J	0.058	4.73 U	-0.051 U	-0.037 U	0 U	0.168 J
	2016	-0.013 U	0.044 U	-0.05 U	2.59 U	0.256 U	-0.005 U	-0.006 U	0.044 U
	2017	0.064 J	0.055 U	0.001 U	-1.46 U	0.398 U	-0.003 U	-0.004 U	0.108 J
	2018	0.038 U	0.138 U	0.043 U	-2.32 U	0.141 J	-0.007 U	0 U	0.159 J
	2019	-0.023 U	-0.001 U	-0.008 U	4.5 U	0.023 U	0.016 U	0.003 U	0.027 U
	2020	0.087 U	0.049 U	0.049 U	12.9 U	0.122 U	0.103 U	0.026 U	0.05 J
	2021	0.027 U	0.007 U	0.007 U	5.2 U	0.149 U	0.123 U	0.046 U	0.026 U
	2022	0.215 U	0.191 U	0.233 U	15.3 U	1.24 U	1.05 U	0.774 U	1 U
2023	-0.0735 UJ	0.166 U	-0.0089 U	0.228 U	0.0264 U	-0.01 U	0.0107 U	0.114 U	
2024	0.0114 U	0.0201 U	0.0239 U	0.984 U	0.0416 U	0.634	0.0405 U	0.152 J	
MW-59 (Filtered)	2013	0.037 U	0.17 J	0.069 J	2.63 U	0.46 U	0.067 U	-0.028 U	0.191 J
	2014	0.03 U	0.018 U	0.007 U	4.57 J	-0.034 U	-0.023 U	-0.006 U	0.057 J
	2015	0.028 U	0.071 U	0.041 J	0.193 U	-0.081 U	-0.039 U	0.013 U	0.164 J
	2016	0.012 U	0.089 U	-0.031 U	2.96 U	0.388 J	-0.005 U	-0.006 U	0.042 U
	2017	-0.025 U	0.144 J	0.045 U	-2.07 U	0.312 U	0.028 U	0.018 J	0.089 J
	2018	-0.01 U	0.211 J	0.111 J	-1.14 U	0.083 U	-0.008 U	-0.004 U	0.151 J
	2019	-0.006 U	0.025 U	0.018 U	8.6 U	0.061 U	0.017 U	0.014 U	0.028 U
	2020	0.077 U	0.069 U	0.078 U	10.8 U	0.105 U	0.102 U	0.017 J	0.028 U
	2021	0.027 U	0.008	0.018 U	5.6 U	0.134 U	0.11 U	0.052 U	0.032 U
	2022	0.224 U	0.228 U	0.242 U	16.6 U	1.15 U	1.11 U	0.659 U	1 U
2023	0.0468 UJ	0.0661 U	0.0331 U	-1.78 U	0.0255 U	0.0053 U	0.0311 U	0.117 U	
2024	0.0339 U	0.00424 U	-0.0103 U	-4.88 U	0.0458 U	0.547	-0.0333 U	0.067 U	
MW-64	2004	0.61 U		0.22 U	11.1 U			R	
MW-69	2004	R		0.39 U	11.5 U			0.552 J	
MW-81	2013	0.182 J	0.13 U	0.036 J	-4.34 U	0.053 U	-0.043 U	-0.115 U	0.645
MW-81 (Filtered)	2013	0.072 J	0.014 U	0.041 J	-2.73 U	0.554 J	-0.054 U	-0.017 U	0.67
NWS-01A-02	2004	0.362 U		0.123 U	12.7 U			0.215 J	
NWS-01A-03	2004	0.745 U		0.14 U	12.4 U			0.462 J	
NWS-01A-04	2004	0.826 J		0.11 U	11.7 U			0.161 U	
NWS-03-03	2004	0.623 U		0.0745 U	10.8 U			0.313 J	
NWS-05-04	2004	0.763 U		R	12.4 U			0.483 J	
PZ-01	2015	0.046 J	0.181	0.052 J	-0.699 U	0.027 U	-0.053 U	-0.026 U	0.326 J
	2016	0.102 J	0.118 U	-0.043 U	-0.359 U	0.353 J	-0.046 U	0.023 U	0.112 J
	2017	0.054 J	0.226 J	0.046 U	4.39 J	0.334 U	-0.014 U	0.02 J	0.081 J
	2018	0.042 U	0.122 U	0.016 U	6.15 J	-0.033 U	-0.007 U	0 U	0.058 U
	2019	-0.014 U	0 U	0 U	-0.2 U	0.047 U	-0.028 U	0.003 U	0.058 J
	2020	0.079 U	0.03 J	0.04 J	11.1 U	0.12 U	0.102 U	0.025 U	0.18 J
	2021	0.028 U	0.007 U	0.026 U	5.7 U	0.124 U	0.107 U	0.04 U	0.125 J
	2022	0.237 U	0.189 U	0.23 U	12.8 U	1.26 U	1.08 U	0.515 U	1 U
	2023	0.141 UJ	-0.00839 U	-0.0126 U	-0.197 U	-0.0135 U	0.31 U	-0.0103 U	0.114 U
2024	0.0392 U	0.032 U	0.0552 U	-3.01 U	-0.0121 U	0.074 U	-0.0966 U	0.211	
PZ-01 (Filtered)	2015	-0.036 U	0.016 U	0.049 J	3.28 U	-0.052 U	0 U	0.013 J	0.291 J
	2016	0.017 U	0.062 U	-0.083 U	-2.91 U	0.108 U	-0.037 U	0.017 U	0.098 J
	2017	0.012 U	0.046 U	0.042 U	2.88 U	-0.005 U	0.035 U	0.016 J	0.077 J
	2018	-0.014 U	0.147 J	0.038 J	7.75	-0.001 U	-0.008 U	0.017 U	3.25
	2019	-0.002 U	0.029 U	-0.001 U	1.4 U	0.031 U	0.026 U	0.007 U	0.02 U
	2020	0.077 U	0.026 U	0.026 U	10.4 U	0.104 U	0.102 U	0.01 J	0.222 J
	2021	0.029 U	0.018 U	0.025	5.9 U	0.138 U	0.109 U	0.043 U	0.222 J
	2022	0.277 U	0.22 U	0.2 U	13.3 U	1.15 UJ	1.17 UJ	0.497 UJ	1 U
	2023	-0.00278 UJ	0.0392 U	0.0455 U	-0.347 U	0.0398 U	0.357	-0.00554 U	0.117 U
	2024	0.0521 U	0.031 U	0.0158 U	-6 U	-0.145 U	0.204 U	0.00966 U	0.235

Well	Year	AMERICIUM-241	PLUTONIUM-238	PLUTONIUM-239/240	PLUTONIUM-241	THORIUM-228	THORIUM-230	THORIUM-232	TOTAL URANIUM
Units		pCi/L	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L	ug/L
PZ-08	2017	0.027 U	0.024 U	0.051 U	1.56 U	0.343 J	0.036 U	0.08	0.497
PZ-08 (Filtered)	2017	0.109 J	-0.005 U	0.102 J	5.78 U	0.37 J	0.014 U	0.016 U	0.184 J
PZ-09	2013	0.104 U	0.123 U	0.088 J	2.9 U	0.54 J	-0.015 U	-0.006 U	0.126 J
	2014	0.178 J	0.144 U	0.082 U	5.46 U	0.014 U	0.026 U	0.025 J	0.167 J
	2015	0.025 U	0.167 J	0.047 U	1.6 U	0.041 U	0.006 U	0	0.099 U
	2016	0.017 U	0.003 U	0.053 J	-10.9 U	0.542 J	-0.074 U	-0.001 U	0.036 U
	2017	-0.015 U	0.041 U	0.019 U	1.68 U	0.246 U	0.02 J	-0.004 U	0.06 U
	2018	0.042 U	0.288 U	0.073 U	2.73 U	0.255 J	-0.006 U	-0.006 U	0.128 J
	2019	-0.023 U	0.032	0.011 U	2.9 U	-0.086 U	0.036 U	0.006 U	0.053 J
	2020	0.089 U	0.027 U	0.027 U	10.6 U	0.113 U	0.104 U	0.038 U	-0.009 U
	2021	0.029 U	0.008 U	0.014	5.3 U	0.137 U	0.118 U	0.047 U	0.094 J
	2022	0.222 U	0.18 U	0.241 U	30.5 U	0.597 U	0.624 U	0.426 U	1 U
	2023	-0.0477 UJ	-0.0509 U	0.00141 U	-0.101 U	-0.0995 U	0.116 U	0.0585 U	0.114 U
2024	-0.00948 U	0.0305 U	-0.00961 U	-13 U	0.0703 U	0.344 U	0.21 UJ	0.067 U	
PZ-09 (Filtered)	2013	0.017 U	0.135 U	0.063 J	0.974 U	0.515 U	0 U	0 U	0.127 J
	2014	0.166	0.053 U	0.004 U	3.03 U	0.034 U	-0.005 U	-0.007 U	0.035 U
	2015	0.014 U	0.07 J	0.056 U	1.16 U	-0.012 U	0.022 U	-0.01 U	0.087 U
	2016	0.039 J	0.175 J	-0.012 U	-3.51 U	0.517 J	-0.024 U	-0.005 U	0.032 U
	2017	-0.005 U	0.069 U	0.062 U	1.74 U	0.331 U	-0.023 U	-0.004 U	0.052 U
	2018	-0.017 U	0.134 U	0.071 U	-0.587 U	0.073 U	-0.008 U	0 U	0.121 J
	2019	-0.019 U	0.031 U	-0.013 U	-2.9 U	0.031 U	0.005 U	0 U	0.029 U
	2020	0.074 U	0.07 U	0.05 J	10.5 U	0.18 U	0.145 U	0.015 U	-0.025 U
	2021	0.028 U	0.024 U	0.035 U	6 U	0.122 U	0.1 U	0.032 U	0.084 J
	2022	0.169 U	0.075 U	0.0955 U	12.2 U	0.595 U	0.448 U	0.319 U	1 U
	2023	-0.0683 UJ	0.0178 U	-0.0502 U	-0.392 U	0.0337 U	0.0418 U	0.00532 U	0.117 U
2024	0.0238 U	0.0358 U	0.0276 U	-1.69 U	0.00468 U	0.967	0.0733 U	0.067 U	
SP-CR-01	2004	0.163 U		0.632 U	10.6 U			0.39 J	
SP-CR-02	2004	0.169 U		0.631 U	9.33 U			0.606 J	
SP-DR-01	2004	0.728 U	0.38 U	0.38 U	13.9 U		0.945 J	0.501 J	
	2013	0.128 J	-0.003 U	0.114 J	-4.1 U	0.502 J	-0.06 U	0.091 J	1.63
	2014	0.003 U	0.073 U	0.1 J	14.7 J	0.163 U	-0.049 U	0.039 U	5.3
	2015	0.009 U	0.07 U	0.002 U	-6.35 U	0.105 U	0.011 U	0 U	0.275 J
	2016	0.077	0.04 U	0.018 U	4.56 U	0.301 U	-0.027 U	-0.013 U	0.744
	2017	0.048 U	0.093 J	0.003 U	0.475 U	0.649 J	0.137 J	-0.007 U	0.427 J
	2018	0.032 U	0.078 U	0.09	4.02 J	0.339 J	0.068 J	-0.007 U	11.6
	2019	-0.03 U	-0.008 U	0.038 U	11.1	0.084 U	0.125	0.037 U	0.059 J
	2020	0.079 U	0.061 U	0.061 U	12.3 U	0.104 U	0.108 U	0.042 U	0.188 J
	2021	0.021 U	0.026 U	0.042 U	5.6 U	0.132 U	0.112 U	0.049 U	0.258 J
	2022		0.157 U	0.19 U	13.3 U	0.638 U	0.75 U	0.596 U	1 U
2023	0.0259 U	0.0483 U	0.019 U	0.437 U	-0.094 U	0.205 U	-0.00554 U	0.437 J	
2024	0.015 U	0.0483 U	0.0178 U	8.17 U	-0.14 U	0.248 U	-0.0945 U	1.55	
SP-DR-01 (Filtered)	2014	0.09 J	0.073 U	0.049 U	8.03 J	0.181 J	0.002 U	-0.01 U	1.45
	2015	0.026 U	0.09 J	0.027 U	-2.48 U	0.198 J	0.039 J	0.006 U	0.161 J
	2016	-0.039 U	0.122 U	0.099	3.96 U	0.198 U	-0.07 U	0 U	0.134 J
	2017	0.043 U	0.105 J	-0.027 U	-4.16 U	0.608 J	0.03 J	-0.007 U	0.276 J
	2018	0.081 J	0.061 U	0.018 U	16.6	0.185 U	-0.009 U	0 U	3.39
	2019	0.007 U	0.021 U	0.047 U	11.2 U	0.01 U	0.005 U	0.005 U	0.054 J
	2020	0.08 U	0.026 U	0.067 U	11.1 U	0.105 U	0.105 U	0.032 U	0.006 U
	2021	0.023 U	0.034 U	0.025	5.4 U	0.128 U	0.109 U	0.019	0.222 J
	2022	0.124 U	0.236 U	0.191 U	16.4 U	0.769 U	0.549 U	0.466 U	1 U
	2023	0.0671 U	0 U	0.0625 U	-0.0457 U	-0.0621 U	0.0125 U	0.0225 U	0.451 J
	2024	0.0113 U	-0.0119 U	-0.0119 U	2.28 U	-0.203 U	0.597 U	-0.0489 U	1.48
SP-DR-03	2004	0.614 U		0.311 U	32.5 DL			0.53 J	
SP-DR-04	2004	0.814 U		0.45 U	18.7 DL			0.323 U	
SP-DR-05	2004	0.414 U	0.958 U	0.547 U	13.9 U		0.974 J	0.556 J	
	2013	0.074 J	0.195 J	0.018 U	-0.298 U	0.682 J	-0.05 U	-0.208 U	0.149 J
SP-DR-05 (Filtered)	2013	-0.054 U	0.187 J	0.028 J	-0.503 U	0.406 U	-0.063 U	-0.021 U	0.13 J
WS/SE-CR-01	2004	0.386 U		0.211 U	9.92 U			0.166	
WS/SE-CR-02	2004	0.39 U		0.523 U	11.1 U			0.348 J	
WS/SE-CR-03	2004	0.395 U		0.214 U	9.74 U			0.166 J	
WS/SE-CR-04	2004	0.573 U		0.221 U	9.65 U			0.383 J	
WS/SE-CR-05	2004	0.491 U		0.415 U	10.5 U			0.306 J	
WS/SE-CR-06	2004	0.54 U		0.41 U	9.39 U			0.28 J	
	2015	0.065 J	0.019 U	-0.007 U	-5.46 U	-0.093 U	-0.013 U	0.051	0.144 J
	2016	0.012 U	0.118 U	0.028 U	-8.5 U	0.526 J	-0.004 U	-0.006 U	0.098 J
	2017	-0.014 U	0.128 U	0.036 U	6.79 J	0.348 J	0.023 J	0 U	0.132 J
	2019	-0.004 U	0.001 U	0.006 U	4.8 U	-0.009 U	0.042 U	0.003 U	0.055 J
	2020	0.073 U	0.052 U	0.064 U	10.9 U	0.116 U	0.103 U	0.039 U	0.041 J
	2021	0.023 U	0.013 U	0.013 U	6.3 U	0.128 U	0.109 U	0.041 U	0.243 J
	2022		0.243 U	0.27 U	15.4 U	0.427 U	0.501 U	0.343 U	1 U
2023	0.0277 U	0.068 U	0.052 U	-1.33 U	-0.168 U	-0.048 U	-0.032 U	0.114 U	
2024	0.0167 U	0.0417 U	0.0338 U	-3.14 U	0.194 U	0.45 U	-0.0381 U	0.093 J	
WS/SE-CR-06 (Filtered)	2015	0.002 U	0.023 U	0.046 U	-0.173 U	-0.065 U	0.011 U	0.011 J	0.06 U
	2016	0.058 J	0.149 J	0 U	-2.38 U	0.437 U	-0.011 U	0 U	0.098 J
	2017	0.071 J	0.082 U	0.092 J	6.64 J	0.406 J	-0.027 U	0 U	0.081 J
	2020	0.079 U	0.074 U	0.074 U	15 U	0.17 U	0.126 U	0.053 U	0.055 J
	2021	0.023 U	0.044 UJ	0.062 UJ	9.3 UJ	0.131 U	0.106 U	0.041 U	0.249 J
	2022	0.139 U	0.36 U	0.36 U	20.4 U	1.25 UJ	1.57 UJ	0.846 UJ	1 U
	2023	-0.0102 U	-0.0178 U	0.041 U	-1.12 U	-0.0643 U	0.271 U	-0.0694 U	0.117 U
2024	0.0198 U	0.0305 U	0.0176 U	1.15 U	0.0222 U	0.546 U	0.00258 U	0.08 J	
WS/SE-DR-01	2004	0.764 J		0.451 U	13.2 J			0.409 J	
WS/SE-DR-02	2004	0.649 U		R	13.6 U			0.466 J	
WS/SE-DR-03	2004	0.35 U		0.401 U	13.7 U			0.516 J	
WS/SE-DR-04	2004	0.51 U		0.487 U	15.3 DL			0.419 J	
WS/SE-DR-05	2004	0.494 U		0.359 U	21.8 DL			0.183 U	
WS/SE-DR-06	2004	0.21 U		R	11 U			0.332 J	

**Table 7. Groundwater Sampling Summary of Detections (2003-2024)**

Metal	Number of Samples	Number of Detections	Minimum	Maximum	Average	USEPA or PADEP Primary or Secondary Drinking Water Standard (1)	SLDA-specific Upgradient Average
	n	n	UG/L	UG/L	UG/L	UG/L	UG/L
ALUMINUM	569	329	1.4	55000	1792.47	200.0	NC
ANTIMONY	568	65	0.2	6.4	1.14	6.0	NC
ARSENIC	569	116	0.62	120	9.51	10.0	NC
BARIUM	569	568	3.5	1600	222.73	2000.0	NC
BERYLLIUM	549	103	0.1	33	3.59	4.0	NC
CADMIUM	569	60	0.059	8.2	0.95	5.0	NC
CALCIUM	569	568	2990	430000	46732.02	NA	NC
CHROMIUM, TOTAL	569	316	0.31	4400	20.77	100.0	NC
COBALT	569	310	0.12	180	8.04	NA	NC
COPPER	569	307	0.23	150	7.72	1000.0	NC
IRON	569	471	19	310000	7710.62	300.0	NC
LEAD	569	127	0.26	39	2.70	15.0	NC
MAGNESIUM	569	565	544	100000	13435.16	NA	NC
MANGANESE	569	551	0.28	4500	251.27	50.0	NC
MERCURY	569	63	0.047	0.37	0.12	2.0	NC
NICKEL	569	426	0.22	680	21.55	100.0	NC
POTASSIUM	569	565	500	80000	2874.34	NA	NC
SELENIUM	569	88	0.436	14	2.88	50.0	NC
SILVER	568	30	0.18	1.2	0.48	100.0	NC
SODIUM	569	567	1100	240000	16823.49	NA	NC
THALLIUM	569	41	0.16	7	0.69	2.0	NC
VANADIUM	569	75	0.49	27	3.58	NA	NC
ZINC	569	398	1.8	2400	50.71	5000.0	NC
TOTAL URANIUM	576	402	0.036	17.7	0.59	30	0.9
<b>Radionuclide</b>	n	n	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L
AMERICIUM-241	701	75	0.026	0.197	0.09	15	ND
PLUTONIUM-238	603	150	0.0054	0.585	0.15	15	ND
PLUTONIUM-239/240	687	103	0.0107	0.224	0.06	15	ND
PLUTONIUM-241	689	32	2.84	14.9	7.00	300 (2)	ND
THORIUM-228	583	150	0.078	4.23	0.51	15	ND
THORIUM-230	597	79	0.016	1.64	0.35	15	0.74
THORIUM-232	687	89	0.01	10.7	0.40	15	0.39

NOTES:

(1) - USEPA Maximum Contaminant Levels (MCLs), Secondary MCLs, or Pennsylvania DEP MCLs

(2) - USEPA, Directive #9283.1-14, Use of Uranium Drinking Water Standards under 40 CFR 141 and 40 CFR 192.

NA - No Standard Available

  Average exceeds water quality standard.

NC - Not Calculated for non-FUSRAP constituents of concern

ND - Not Detected

**Table 8. Surface Water Sampling Summary of Detections (2004-2024)**

Metal	Number of Samples	Number of Detections	Minimum	Maximum	Average	USEPA or PADEP Primary or Secondary Drinking Water Standard (1)	SLDA-specific Upgradient Average
	n	n	UG/L	UG/L	UG/L	UG/L	UG/L
ALUMINUM	43	38	3.3	11000	566.26	200.0	NC
ANTIMONY	43	12	0.207	2.8	1.16	6.0	NC
ARSENIC	43	15	0.88	7.1	3.23	10.0	NC
BARIIUM	43	43	28	320	76.35	2000.0	NC
BERYLLIUM	40	8	0.38	2.7	1.12	4.0	NC
CADMIUM	43	6	0.36	3.3	1.43	5.0	NC
CALCIUM	43	43	3600	98200	28797.67	NA	NC
CHROMIUM, TOTAL	43	20	0.35	20	2.38	100.0	NC
COBALT	43	28	0.14	17	4.12	NA	NC
COPPER	43	27	0.377	12	3.30	1000.0	NC
IRON	43	42	40	20000	2827.02	300.0	NC
LEAD	43	16	0.182	20	4.31	15.0	NC
MAGNESIUM	43	43	710	24000	7844.65	NA	NC
MANGANESE	43	43	8	5500	1138.99	50.0	NC
MERCURY	43	8	0.073	0.17	0.12	2.0	NC
NICKEL	43	35	0.66	21	4.90	100.0	NC
POTASSIUM	43	43	920	6200	2083.02	NA	NC
SELENIUM	43	2	1.5	2.9	2.20	50.0	NC
SILVER	43	4	0.24	1	0.50	100.0	NC
SODIUM	43	43	1100	219000	17461.63	NA	NC
THALLIUM	43	8	0.22	7.2	2.07	2.0	NC
VANADIUM	43	11	0.8	17	3.82	NA	NC
ZINC	43	31	2.3	140	17.89	5000.0	NC
TOTAL URANIUM	43	35	0.041	11.6	0.94	30	0.9
<b>Radionuclide</b>	n	n	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L
AMERICIUM-241	85	9	0.058	0.262	0.10	15	ND
PLUTONIUM-238	47	8	0.09	0.195	0.13	15	ND
PLUTONIUM-239/240	83	8	0.025	0.114	0.07	15	ND
PLUTONIUM-241	83	7	4.02	16.6	9.70	300 (2)	ND
THORIUM-228	43	13	0.181	0.682	0.41	15	ND
THORIUM-230	47	10	0.023	0.993	0.36	15	0.74
THORIUM-232	83	4	0.011	0.091	0.04	15	0.39

NOTES:

(1) - USEPA Maximum Contaminant Levels (MCLs), Secondary MCLs, or Pennsylvania DEP MCLs

(2) - USEPA, Directive #9283.1-14, Use of Uranium Drinking Water Standards under 40 CFR 141 and 40 CFR 192.

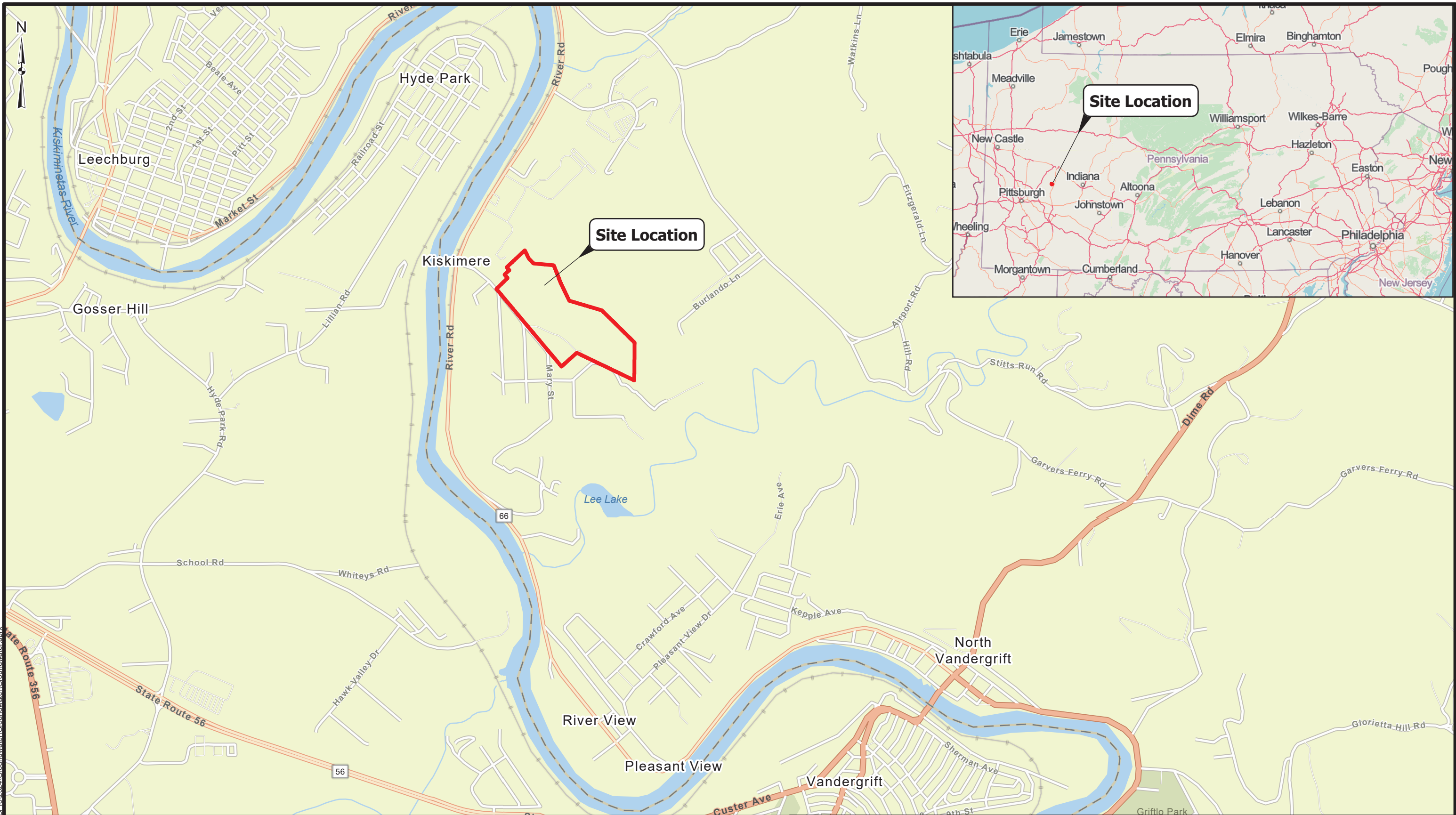
NA - No Standard Available

Average exceeds water quality standard.

NC - Not Calculated for non-FUSRAP constituents of concern

ND - Not Detected

# FIGURES



Document Path: K:\SIS\DA\GIS\ArcGISPro\2024\Groundwater\Groundwater.aprx

- Site Boundary
- County Boundary



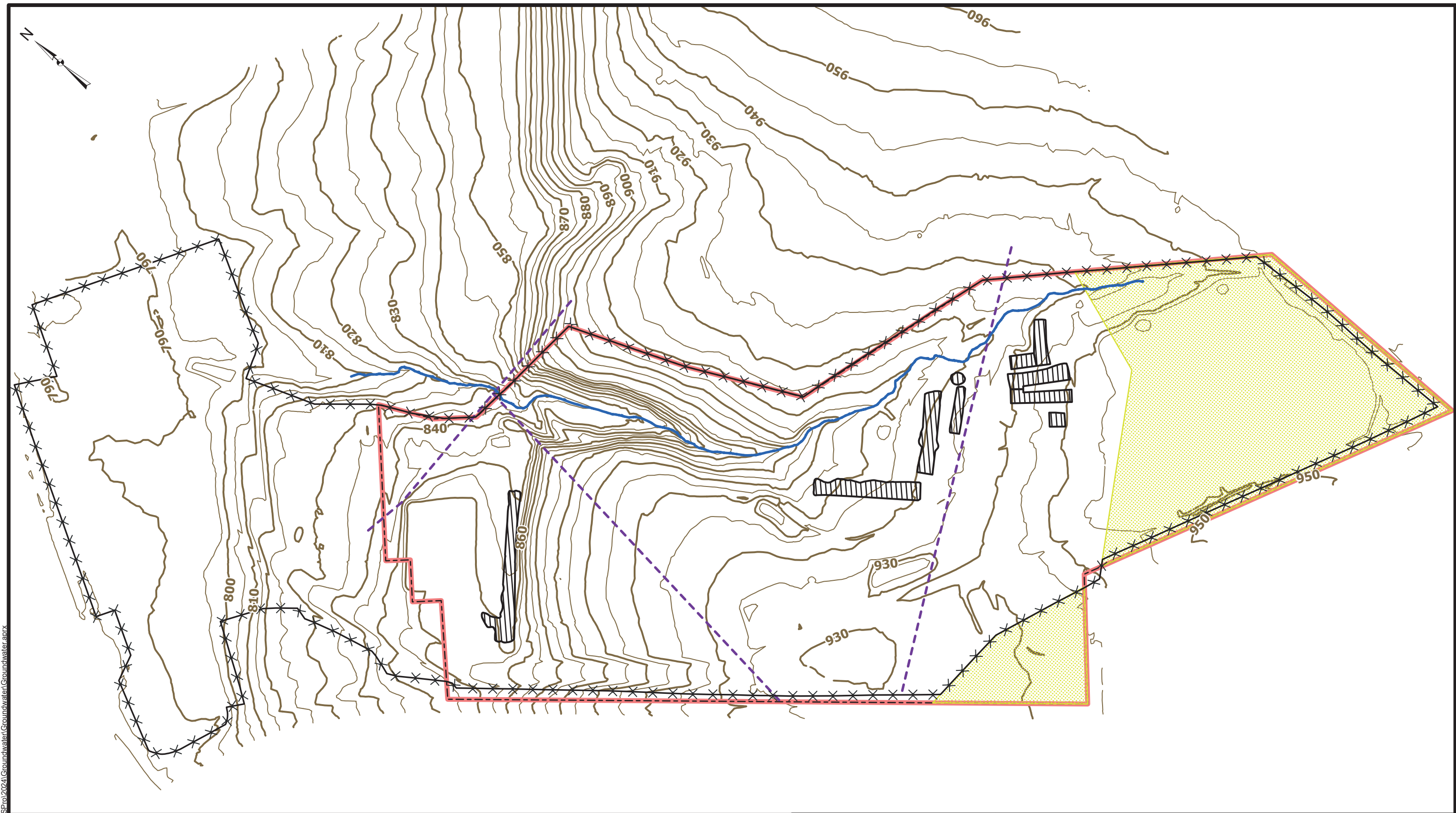
**U.S. ARMY ENGINEER DISTRICT**  
**CORPS OF ENGINEERS**  
 BUFFALO, NY  
Buffalo District

Project: Groundwater.aprx  
 Layout Name: Figure 1 Site Location  
 Drawn By: H5TDRSNA  
 Date Saved: 7/31/2025  
 Time Saved: 1126







**SITE LOCATION MAP**


SHALLOW LAND DISPOSAL AREA  
 PARKS TOWNSHIP, ARMSTRONG COUNTY,  
 PENNSYLVANIA

**FIGURE 1**




**Legend**

-  Topographic Contour (Feet)
-  Site Boundary
-  Inactive Buried Gas Line
-  Fenceline
-  Intermittent Stream - Dry Run
-  SLDA Disposal Trenches

 12-Acre Area Added to the SLDA Site license SNM-2001 From the Parks Facility License SNM-414 in 2002



 U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
BUFFALO, NY

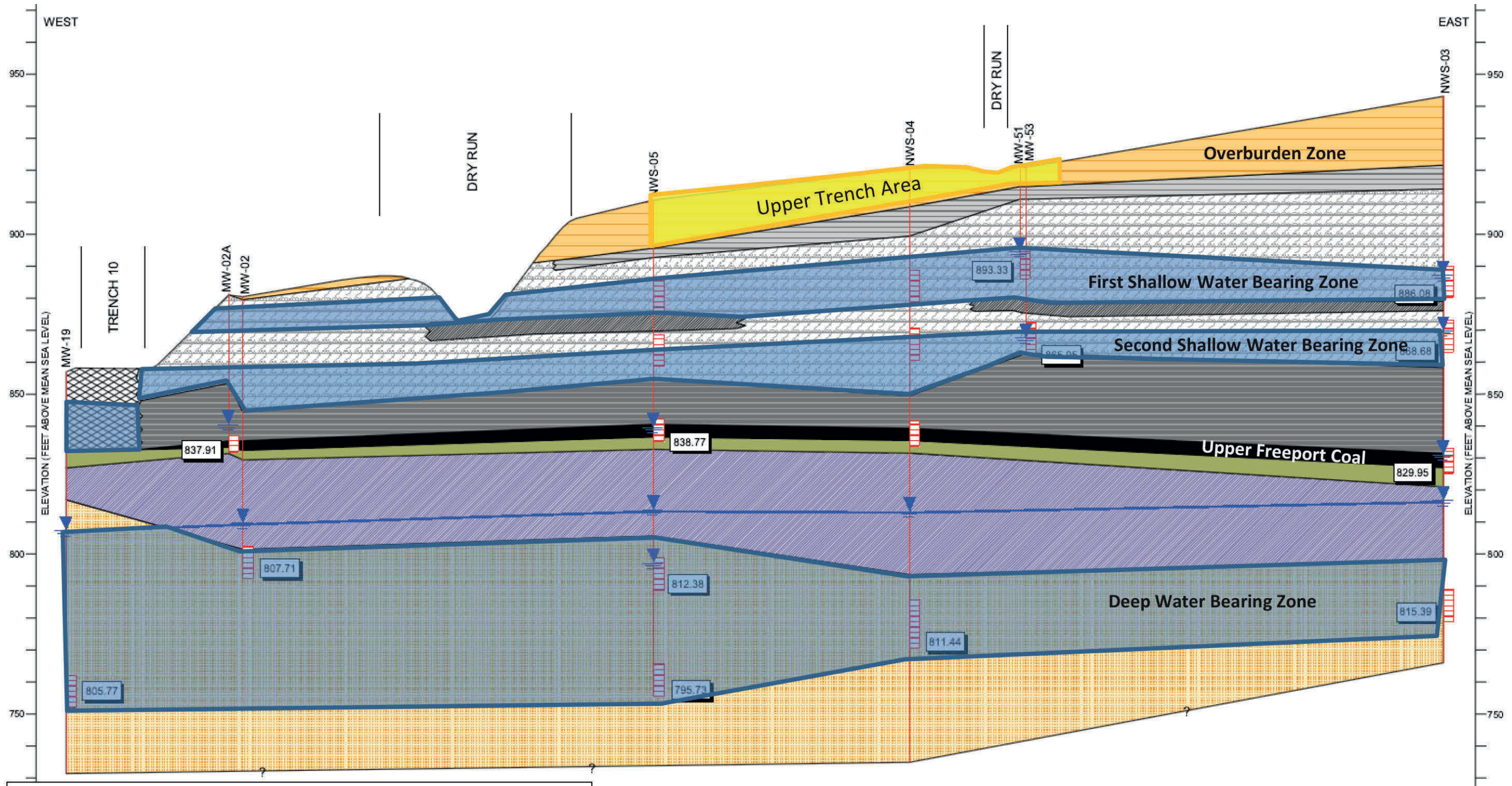
Project: Groundwater.aprx  
Layout Name: Figure 2 Site Plan  
Drawn By: H5TDRSNA  
Date Saved: 7/31/2025  
Time Saved: 1126

SHALLOW LAND DISPOSAL AREA (SLDA) SITE PLAN

SHALLOW LAND DISPOSAL AREA  
PARKS TOWNSHIP, ARMSTRONG COUNTY,  
PENNSYLVANIA

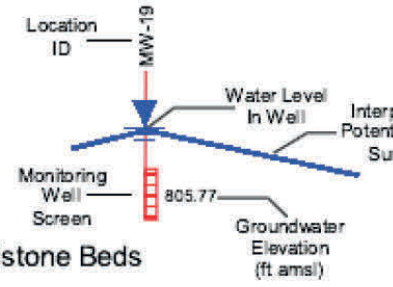
FIGURE 2

Document Path: K:\GIS\DAL\GIS\ArcGIS\Pro\2024\Groundwater\Groundwater.aprx



**Legend**

- Geologic Layer**
- Overburden
  - Weathered Shale
  - Upper Bedrock
  - Mine Fill
  - Tight Zone
  - Black Shale
  - Upper Freeport
  - Underclay
  - Lower Tight Zone
  - Siltstone with Sandstone Beds



HORIZONTAL SCALE: 1 INCH = 150 FEET  
 VERTICAL EXAGGERATION: 5X

U.S. ARMY ENGINEER DISTRICT  
 CORPS OF ENGINEERS  
 BUFFALO, NY

Project: Groundwater.aprx  
 Layout Name: Figure 3 Geologic CS  
 Drawn By: H5TDRSNA  
 Date Saved: 7/31/2025  
 Time Saved: 1126

**NORTHWEST TO SOUTHEAST  
 GEOLOGIC CROSS SECTION THROUGH SLDA**

SHALLOW LAND DISPOSAL AREA  
 PARKS TOWNSHIP, ARMSTRONG COUNTY,  
 PENNSYLVANIA

FIGURE 3

Document Path: K:\GIS\DA\GIS\ArcGISPro\2024\Groundwater\Groundwater.aprx



**Legend**

- Monitoring Well
- Piezometer
- Temporary Piezometer
- Groundwater Elevation Contour (ft amsl)
- Groundwater Flow Direction
- Trench
- Fenceline
- Site Boundary
- Links
- Green: Band\_2
- Blue: Band\_3
- Red: Band\_1

RP.png  
RGB

Note: PZ-02 was not used to generate the potentiometric surface due to possible anomalous readings.



U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
BUFFALO, NY  
Buffalo District

Project: Groundwater.aprx  
Layout Name: Figure 4 SS  
Drawn By: H5TDRSNA  
Date Saved: 7/31/2025  
Time Saved: 1126

**GROUNDWATER ELEVATION CONTOUR MAP  
OVERBURDEN - OCTOBER 2024**

SHALLOW LAND DISPOSAL AREA  
PARKS TOWNSHIP, ARMSTRONG COUNTY,  
PENNSYLVANIA

FIGURE 4

Document Path: K:\GIS\DAL\GIS\ArcGIS\Pro\2024\Groundwater\Groundwater.aprx





Document Path: K:\GIS\DA\GIS\ArcGIS\Pro\2024\Groundwater\Groundwater\Groundwater.aprx

Legend	
	Monitoring Well
	Piezometer
	Temporary Piezometer
	Groundwater Elevation Contour (ft amsl)
	Groundwater Flow Direction
	Trench
	Fenceline
	Site Boundary



U.S. ARMY ENGINEER DISTRICT  
 CORPS OF ENGINEERS  
 BUFFALO, NY  
 Buffalo District

Project: Groundwater.aprx  
 Layout Name: Figure 6 2S  
 Drawn By: H5TDRSNA  
 Date Saved: 7/31/2025  
 Time Saved: 1126

GROUNDWATER ELEVATION CONTOUR MAP  
SECOND SHALLOW BEDROCK ZONE - OCTOBER 2024

SHALLOW LAND DISPOSAL AREA  
PARKS TOWNSHIP, ARMSTRONG COUNTY,  
PENNSYLVANIA

FIGURE 6



Document Path: K:\GIS\DA\GIS\ArcGIS\Pro\2024\Groundwater\Groundwater.aprx

<p><b>Legend</b></p> <ul style="list-style-type: none"> <li> Monitoring Well</li> <li> Piezometer</li> <li> Temporary Piezometer</li> <li> Groundwater Elevation Contour (ft amsl)</li> <li> Groundwater Flow Direction</li> <li> Trench</li> <li> Fenceline</li> <li> Site Boundary</li> </ul>	<p>U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS BUFFALO, NY Buffalo District</p>	<p>GROUNDWATER ELEVATION CONTOUR MAP UPPER FREEPORT COAL ZONE - OCTOBER 2024</p>
<p>0      125      250      500 Feet</p>	<p>Project: Groundwater.aprx Layout Name: Figure 7 UF Drawn By: H5TDRSNA Date Saved: 7/31/2025 Time Saved: 1126</p>	<p>SHALLOW LAND DISPOSAL AREA PARKS TOWNSHIP, ARMSTRONG COUNTY, PENNSYLVANIA</p>
		<p>FIGURE 7</p>



<p><b>Legend</b></p> <ul style="list-style-type: none"> <li> Monitoring Well</li> <li> Piezometer</li> <li> Temporary Piezometer</li> <li> Groundwater Elevation Contour (ft amsl)</li> </ul>	<ul style="list-style-type: none"> <li> Groundwater Flow Direction</li> <li> Trench</li> <li> Fenceline</li> <li> Site Boundary</li> </ul>	<p>Note: MW-34A was not used to generate the potentiometric surface due to possible anomalous readings.</p>	<p>U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS BUFFALO, NY</p> <p>Project: Groundwater.aprx Layout Name: Figure 8 DB Drawn By: H5TDRSNA Date Saved: 7/31/2025 Time Saved: 1126</p>	<p style="text-align: center;"><b>GROUNDWATER ELEVATION CONTOUR MAP</b> DEEP BEDROCK ZONE - OCTOBER 2024</p> <p style="text-align: center;"><b>SHALLOW LAND DISPOSAL AREA</b> PARKS TOWNSHIP, ARMSTRONG COUNTY, PENNSYLVANIA</p>	<p style="text-align: center;">FIGURE 8</p>
---	--	---	---	--	---

Document Path: K:\GIS\DA\GIS\ArcGIS\Pro\2024\Groundwater\Groundwater.aprx



**Legend**

Monitoring Well/Piezometer (Sampled 2024)	Monitoring Well (Upper Freeport Zone)	Piezometer (Upper Freeport Zone)
Surface Water Location (Sampled 2024)	Monitoring Well (Deep Bedrock)	Historical Surface Water Sample
Monitoring Well (Overburden)	Nested Monitoring Well	Trench
Monitoring Well (First Shallow Bedrock)	Piezometer (Overburden)	Fenceline
Monitoring Well (Second Shallow Bedrock)	Piezometer (First Shallow Bedrock)	Site Boundary

U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
BUFFALO, NY  
Buffalo District

Project: Groundwater.aprx  
Layout Name: Figure 9 Samp Loc  
Drawn By: H5TDRSNA  
Date Saved: 7/31/2025  
Time Saved: 1126

**GROUNDWATER SAMPLING LOCATIONS**  
(OCTOBER 2024)

SHALLOW LAND DISPOSAL AREA  
PARKS TOWNSHIP, ARMSTRONG COUNTY,  
PENNSYLVANIA

FIGURE 9

Document Path: K:\SIS\DAL\GIS\ArcGISPro\2024\Groundwater\Groundwater.aprx



Document Path: K:\SIS\DA\GIS\ArcGISPro\2024\Groundwater\Groundwater\Groundwater.aprx

- Legend**
- ▲ Historical Surface Water Sample
  - Surface Water Location (Sampled 2024)
  - Fenceline
  - Site Boundary



U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
BUFFALO, NY  
Buffalo District

Project: Groundwater.aprx  
Layout Name: Figure 10 Off Site  
Drawn By: H5TDRSNA  
Date Saved: 7/31/2025  
Time Saved: 1126

**OFF-SITE SURFACE WATER SAMPLING LOCATIONS**  
(OCTOBER 2024)

SHALLOW LAND DISPOSAL AREA  
PARKS TOWNSHIP, ARMSTRONG COUNTY,  
PENNSYLVANIA

FIGURE 10