GROUNDWATER MONITORING AND CORRECTIVE ACTION 2025 ANNUAL REPORT

Prepared for:

Plum Point Services Company, LLC

Osceola, Arkansas

January 2026

Olsson Project No. A24-01343

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EXECUTIVE SUMMARY

Plum Point Services Company, LLC (PPSC), operates a landfill for the disposal of coal combustion residuals (CCRs) at the Plum Point Energy Station located near Osceola, Arkansas. The landfill is regulated by the Environmental Protection Agency (EPA) Coal Combustion Residuals rule, promulgated at Title 40 of the Code of Federal Regulations (40 CFR), Part 257, and published on April 17, 2015. Landfills regulated by this rule are required to implement and maintain a groundwater monitoring program to determine if the CCR landfill is impacting groundwater quality at the facility's compliance boundary. For this purpose, semiannual groundwater detection monitoring is required. This report presents results from semiannual detection monitoring events performed during 2025 in accordance with 40 CFR Part 257.

The landfill's groundwater monitoring program uses a certified monitoring well network comprised of ten monitoring wells (FTN Associates, Ltd. [FTN] 2017a) with four new wells added to the CCR program. Groundwater sample collection is performed in accordance with the landfill's groundwater sampling and analysis plan (FTN 2017b) and data are evaluated in accordance with the landfill's certified statistical analysis plan (FTN 2017c).

Olsson was contracted to sample groundwater and statistically evaluate the data from the semiannual monitoring events performed during 2025. Results from these events are summarized as follows:

1. Detection monitoring was performed during April and October 2025 for the first and second half of 2025 monitoring periods, respectively. Groundwater samples from each event were submitted to a third-party Arkansas-licensed laboratory for analysis of the appendix III list of parameters, excluding pH, which is field-measured.
2. The direction of groundwater flow varied between the first and second half of 2025 monitoring events. The April 2025 potentiometric surface map shows groundwater flow generally to the northeast across active cells 1 and 2 and relatively flat across active cell 3 with a slight northwestern flow. The October 2025 potentiometric surface map shows groundwater flow was generally to the northeast across the active landfill cells.
3. Of the appendix III parameters evaluated, only fluoride has an EPA-promulgated maximum contaminant level (MCL). None of the measured values in groundwater exceeded the MCL for fluoride.

4. Time-series plots and box-and-whiskers diagrams show variability across the well network for the following appendix III parameters: calcium, chloride, fluoride, sulfate, and total dissolved solids (TDS). The remaining appendix III parameters, boron and pH, show relatively similar values across all wells, with measured boron being below the laboratory reporting detection limit (RDL) for the period of record at all wells with the exception of MW-102, which had detections above the RDL during the first and second half 2025 monitoring periods.

5. A comparison of the statistical power curve for the detection monitoring program to the EPA Reference Power Curve indicates that statistical power of the detection monitoring program was below EPA recommendations at levels 3σ and 4σ above background during 2025. It is anticipated that the statistical power of the program will improve as additional data are incorporated into the background data sets at the newer wells.

6. Statistical evaluation of the first half of 2025 data set identified confirmed statistically significant increases (SSIs) for boron, sulfate and TDS at MW-102, chloride and sulfate at MW-104, TDS at MW-110, sulfate at compliance well MW-115, calcium and TDS at MW-116, and calcium, sulfate, and TDS at MW-117. PPSC completed a successful alternate source demonstration (ASD) in response to the SSIs in accordance with §257.94(e)(2). The ASD was certified by an Arkansas-registered professional engineer and an Arkansas-registered professional geologist on October 8, 2025, and the ASD is included with this report in accordance with §257.94(e)(2). Based on the successful ASD, PPSC continued with detection monitoring in the second half of 2025 in accordance with §257.94.

7. Statistical evaluation of the second half of 2025 data set identified confirmed SSIs for boron, sulfate and TDS at MW-102, and chloride and sulfate at MW-104. PPSC completed a successful ASD in response to the SSIs in accordance with §257.94(e)(2). The ASD was certified by an Arkansas-registered professional engineer and an Arkansas-registered professional geologist on January 21, 2026, and the ASD is included with this report in accordance with §257.94(e)(2). Based on the successful ASD, PPSC will continue with detection monitoring in the first half of 2026 in accordance with §257.94.

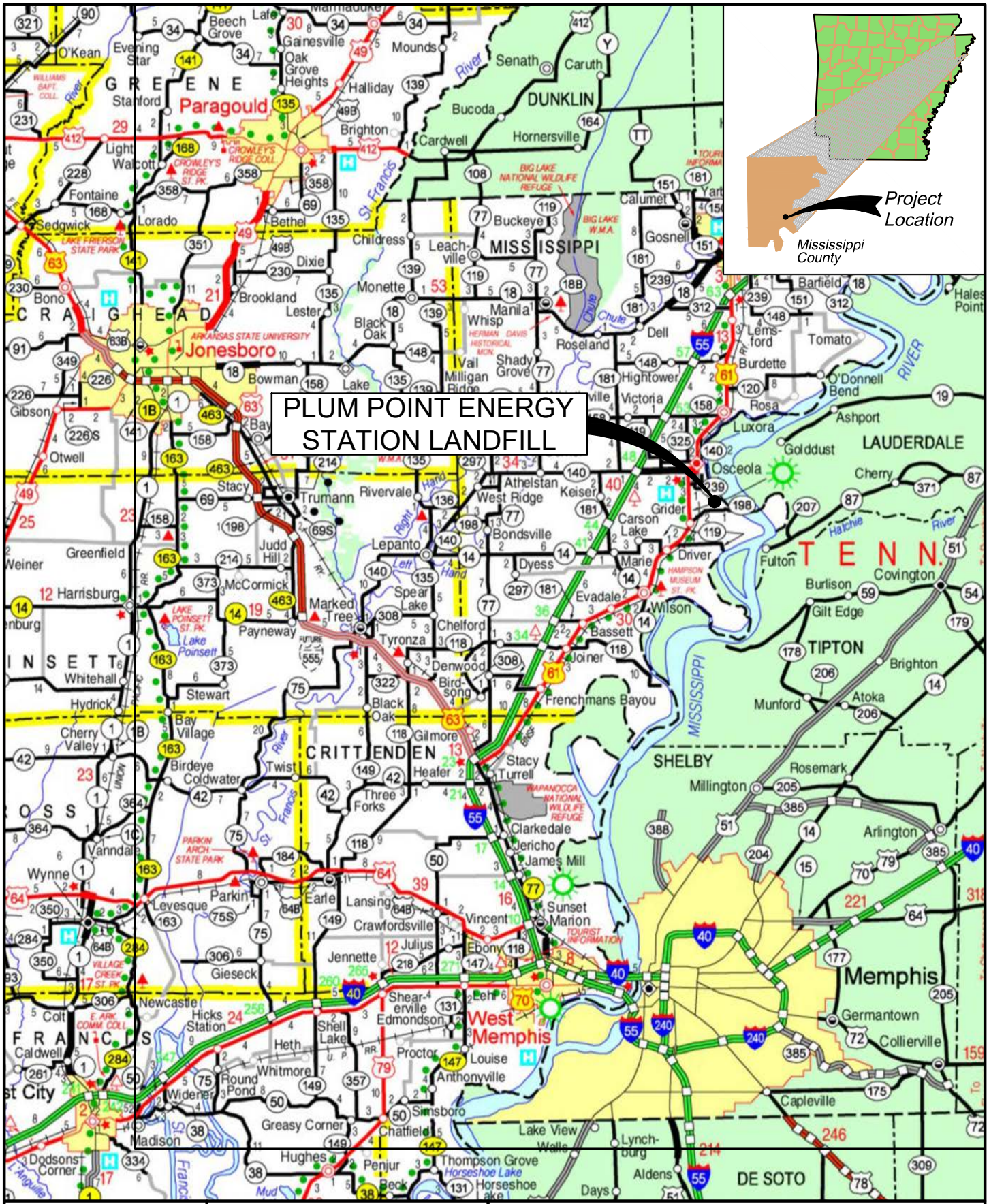
1. BACKGROUND

Plum Point Services Company, LLC (PPSC), operates a landfill for the disposal of coal combustion residuals (CCRs) at the Plum Point Energy Station in Mississippi County, Arkansas. The plant and landfill are located approximately 2 miles south of the city of Osceola, as shown on Figure 1. The landfill is regulated by the Environmental Protection Agency (EPA) Coal Combustion Residuals rule, promulgated at Title 40 of the Code of Federal Regulations (40 CFR), Part 257, and published on April 17, 2015. The regulation, referred to hereafter as the CCR rule, requires regulated landfills to implement and maintain a groundwater monitoring program to determine if the CCR landfill is impacting groundwater quality at the facility's compliance boundary. For this purpose, groundwater detection monitoring is required on a semiannual frequency. A groundwater sampling program that meets the requirements of the CCR rule was implemented by PPSC during 2015, and the first semiannual detection monitoring event was performed at the landfill during the second half of 2017.

Olsson was contracted to sample groundwater and statistically evaluate the data from the semiannual monitoring events performed during 2025. This report presents the results of groundwater sampling and the associated statistical evaluations, and is intended to satisfy the reporting requirements of §257.90(e)(1) through (5). The following sections provide a brief description of the sampling area, operational history of the plant and landfill, regional and site-specific hydrogeological setting, and general regional and site groundwater quality.

1.1 Sampling Area

The landfill area encompasses approximately 245 acres located approximately 1 mile west of the Mississippi River and 2 miles south of Osceola, Arkansas. The landfill is bordered by Arkansas Highway 239 to the east, Arkansas Highway 198 to the south, and the BNSF rail line to the west. Beyond these features and immediately north of the landfill are agricultural fields, and topography is relatively flat. A vicinity map of Plum Point Energy Station and the landfill is provided as Figure 2.



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Figure 1. Location map, Plum Point Energy Station.

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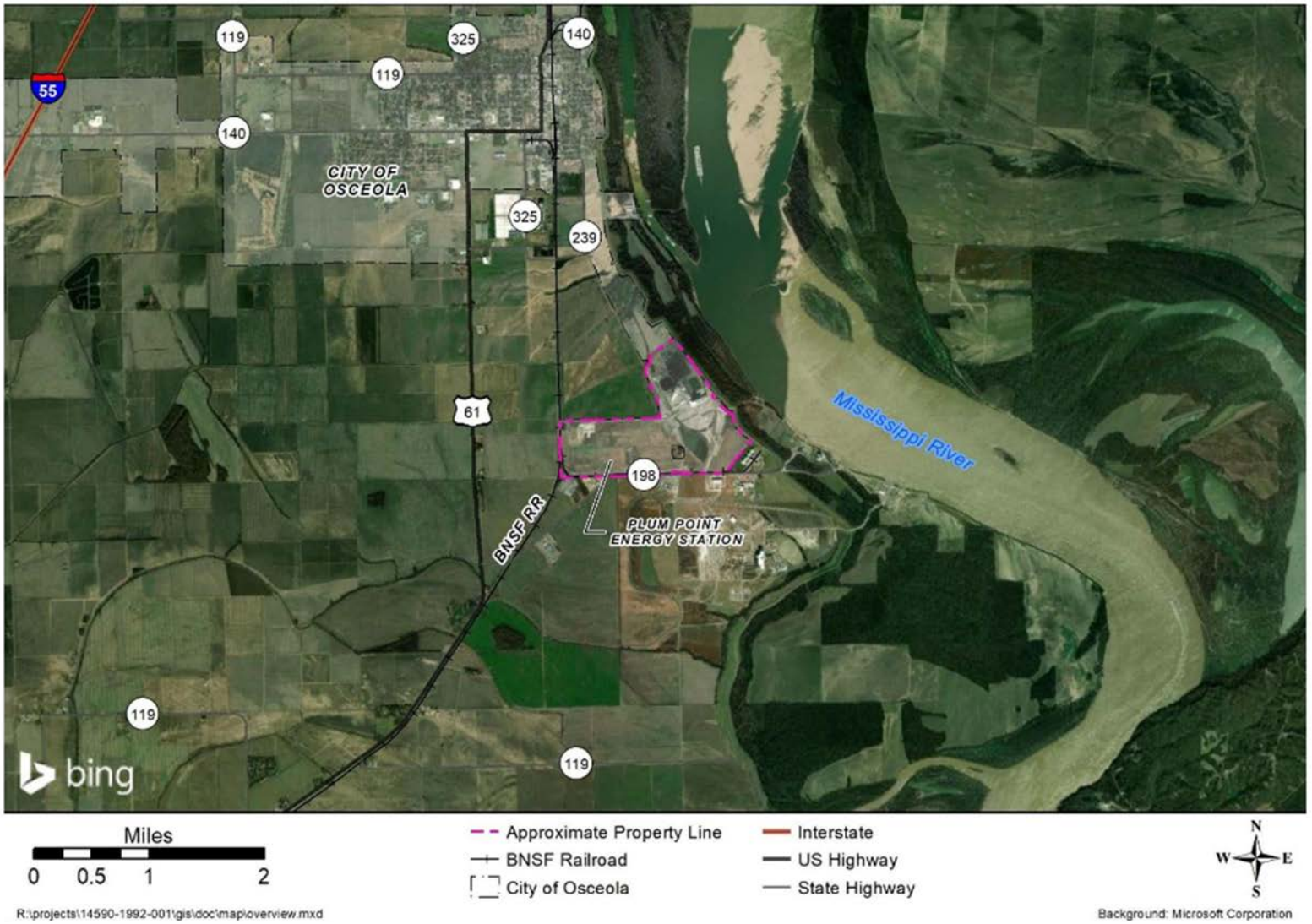


Figure 2. Vicinity map, Plum Point Energy Station.

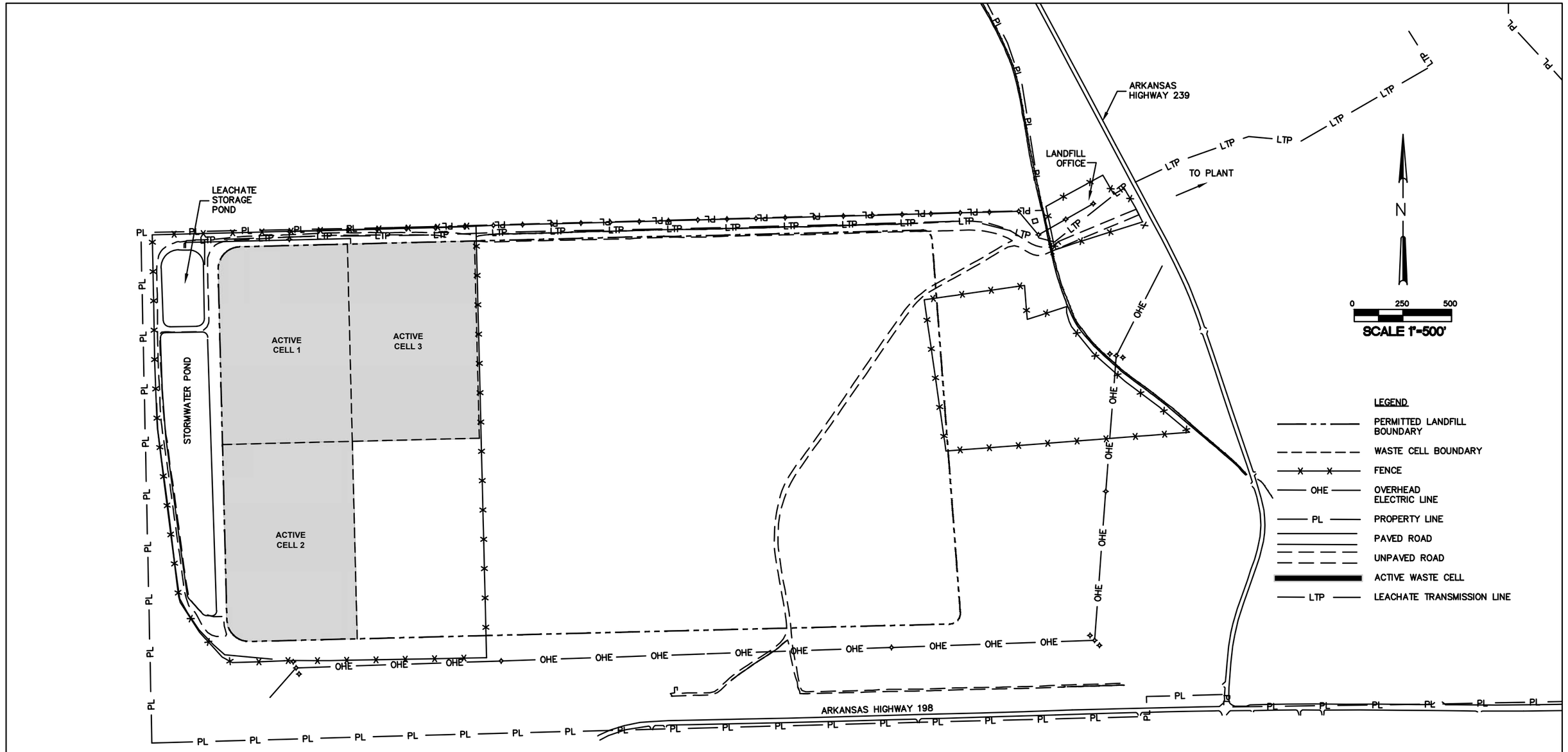
1.2 Operational History

The plant has been in operation since 2010 and generates electricity through the combustion of coal. Approximately 200,000 tons of CCR material is produced and deposited in the landfill each year with approximately 136,500 tons of CCR deposited in the landfill in 2024. The landfill is permitted by the Arkansas Department of Energy and Environment, Division of Environmental Quality (DEQ), under permit no. 0303-S3N-R2 and became active during March 2010. The landfill currently has three active disposal cells, cells 1 through 3, which are shown on Figure 3. The combined area of the three active CCR disposal cells is approximately 46 acres.

Groundwater detection monitoring was initiated at the landfill in November 2007, in accordance with Arkansas Pollution Control and Ecology Commission (APCEC) Title 8, Part 60 of the Code of Arkansas Rules (8 CAR 60) requirements. The landfill's groundwater monitoring system was expanded and designed to conform to the requirements of the CCR rule. The groundwater monitoring network was certified by FTN Associates, Ltd. (FTN) in October 2017 (FTN 2017a). Details regarding the certified groundwater monitoring network are provided in Section 2 and in the landfill groundwater monitoring network certification report (FTN 2017a).

1.3 Regional Hydrogeology

The landfill is located in the Mississippi Alluvial Plain physiographic region, as shown on Figure 4. The region was formed by the deposits of the Mississippi River and its tributaries and is generally flat-lying (Cushing, Boswell, & Hosman 1964). The uppermost aquifer in the region is the Mississippi River Valley alluvial aquifer (hereafter referred to as the alluvial aquifer). The alluvial aquifer is comprised of unconsolidated Quaternary-age alluvial and terrace deposit sands and gravels that generally grade upward to clays and silts, which form a semi-confining to confining layer over much of the aquifer. Regionally, the alluvium reaches depths of 100 ft to 200 ft below ground surface (bgs) (Ryling 1960; Cushing, Boswell, & Hosman 1964). Beneath the alluvial aquifer is a lower confining unit, described as the Tertiary-aged Jackson-Claiborne clay in older publications (Broom & Lyford 1981; Peterson, Broom, & Bush 1985); however, more recent publications indicate that sediments of the lower confining unit belong to the Tertiary-aged middle Claiborne confining unit (Hart, Clark, & Bolyard 2008). The regional direction of groundwater flow is toward the southwest (Schrader 2015, Rodgers & Whaling 2020).



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Figure 3. Landfill layout map.

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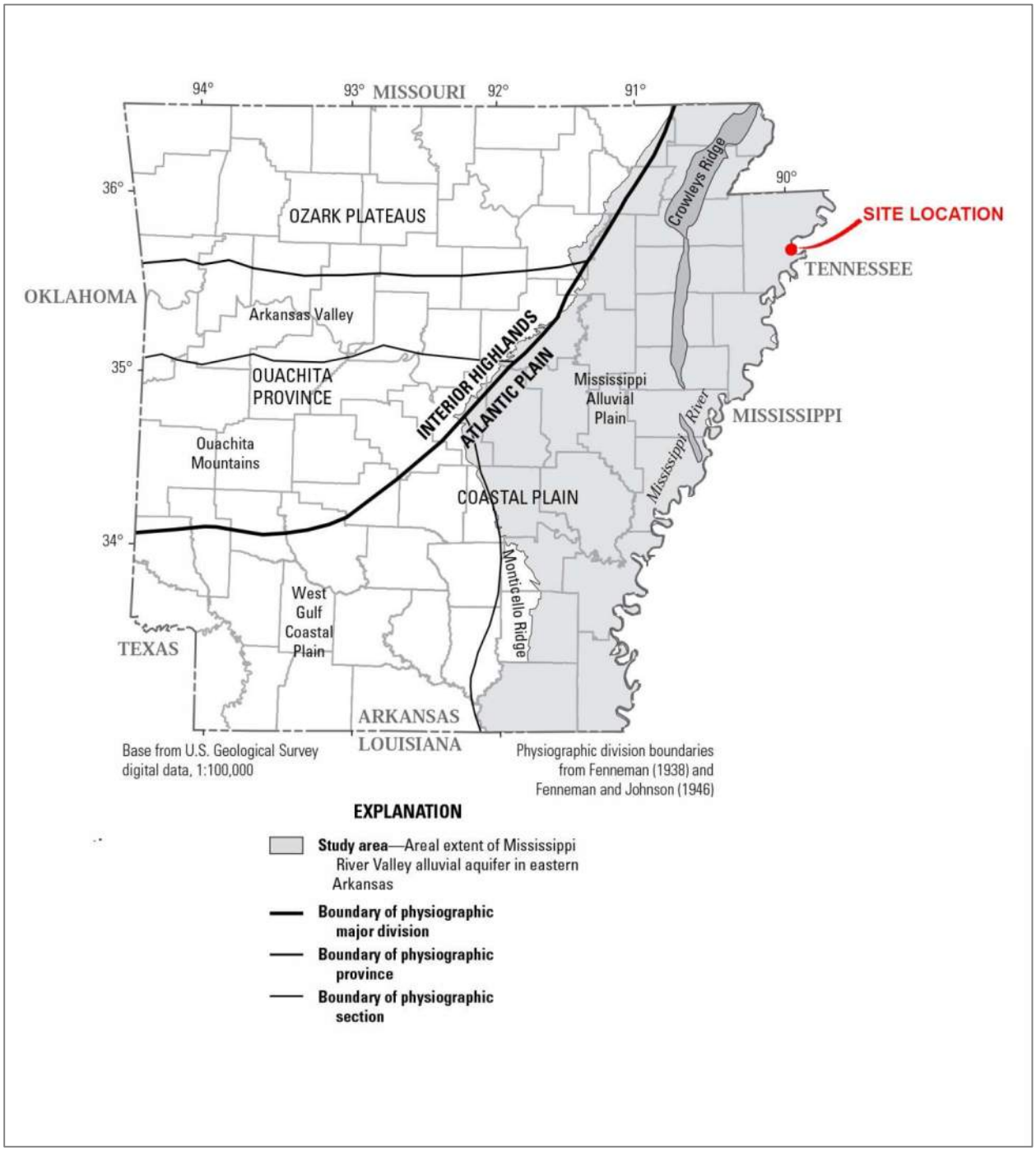


Figure 4. Physiographic location, Plum Point Energy Station (adapted from Schrader 2015).

1.4 Site Hydrogeology

A detailed site investigation was performed in 2001 as part of the DEQ permit application for the landfill. The findings from the investigation were submitted to DEQ by Genesis Environmental Consulting, Inc. (GEC), in a geotechnical and hydrogeological investigation (GHI) report (GEC 2001). Findings from the GHI indicated that the confining unit above the alluvial aquifer ranges from 0 ft to over 30 ft thick, with an average thickness of 15 ft at the site. Confining unit soils are comprised of brown to grey clay, silty clay, and sandy clays. Underlying the confining unit are fine- to coarse-grained sands of the alluvial aquifer, with fine- to coarse-grained gravel encountered at depth. Based on one deep boring, completed to a depth of 200 ft below ground surface (bgs), the coarse-grained aquifer materials reach a depth of 190 ft bgs in the vicinity of the landfill.

Laboratory geotechnical testing of confining unit soils indicate a vertical permeability of 4.8×10^{-6} centimeters per second (cm/s) based on the geometric mean of reported test results (GEC 2001). Field results from one aquifer pumping test and multiple aquifer slug tests indicate that the uppermost alluvial aquifer has an average hydraulic conductivity of 1.09×10^{-2} cm/s (GEC 2001). The GHI reported an effective porosity for the aquifer of 27% (GEC 2001), which agrees with published values ranging from 10% to 30% for similar aquifer materials (EPA 1998, Yu et al. 2015).

In 2023, a confining unit investigation was conducted by FTN for cells 2 and 4. Findings from the investigation indicated that the existing liner plan for cell 2 met the requirements for 5 ft of separation between the top of the landfill liner system and the seasonally high groundwater elevation. The borings advanced in cell 2 showed that the in situ soils that are part of the 5-ft buffer are of sufficient thickness, contained adequate cohesive material, and met the project-specific requirement for a hydraulic conductivity of 1×10^{-5} cm/sec or less. The investigation also indicated that the existing liner plan for cell 4 required redesigned to meet the 5-ft buffer requirement. This is due to samples from two borings lacking sufficient cohesive material, alluvial sand being encountered at higher than anticipated depths, and five samples not meeting the project-specific hydraulic conductivity of 1×10^{-5} cm/sec or less. The cell 4 liner system was redesigned and approved by DEQ.

The direction of groundwater flow at the landfill is variable and changes from eastward to westward on a seasonal basis (FTN 2017a). The direction of flow is influenced by the river stage of the adjacent Mississippi River (Kresse et al. 2014).

1.5 General Groundwater Quality

Regionally, groundwater in the alluvial aquifer is a calcium-bicarbonate water type with sodium, magnesium, chloride, sulfate, silica, and iron comprising the majority of the remaining dissolved ions (Kresse et al. 2014). Elevated concentrations of trace metals including iron, manganese, and arsenic are ubiquitous in the alluvial aquifer and thought to be elevated due to the presence of carbonaceous material within the aquifer that drives redox-sensitive parameters to dissolve in groundwater (Kresse & Fazio 2003, Gonthier 2003, Kresse & Clark 2008, Welch et al. 2009, Kresse et al. 2014). Concentrations of most parameters vary widely both laterally and vertically in the aquifer (Kresse et al. 2014). Groundwater at the top of the aquifer is generally influenced by the quality of natural recharge (e.g., precipitation and surface waterbodies) and anthropogenic activity. Conversely, groundwater quality at the base of the aquifer is influenced heavily by the underlying confining formation (Kresse et al. 2014).

2. MONITORING NETWORK AND SCHEDULE

The following sections describe the certified monitoring well network, changes made to the network during 2025, sampling schedule, network maintenance, sampling methodology, and required laboratory analyses.

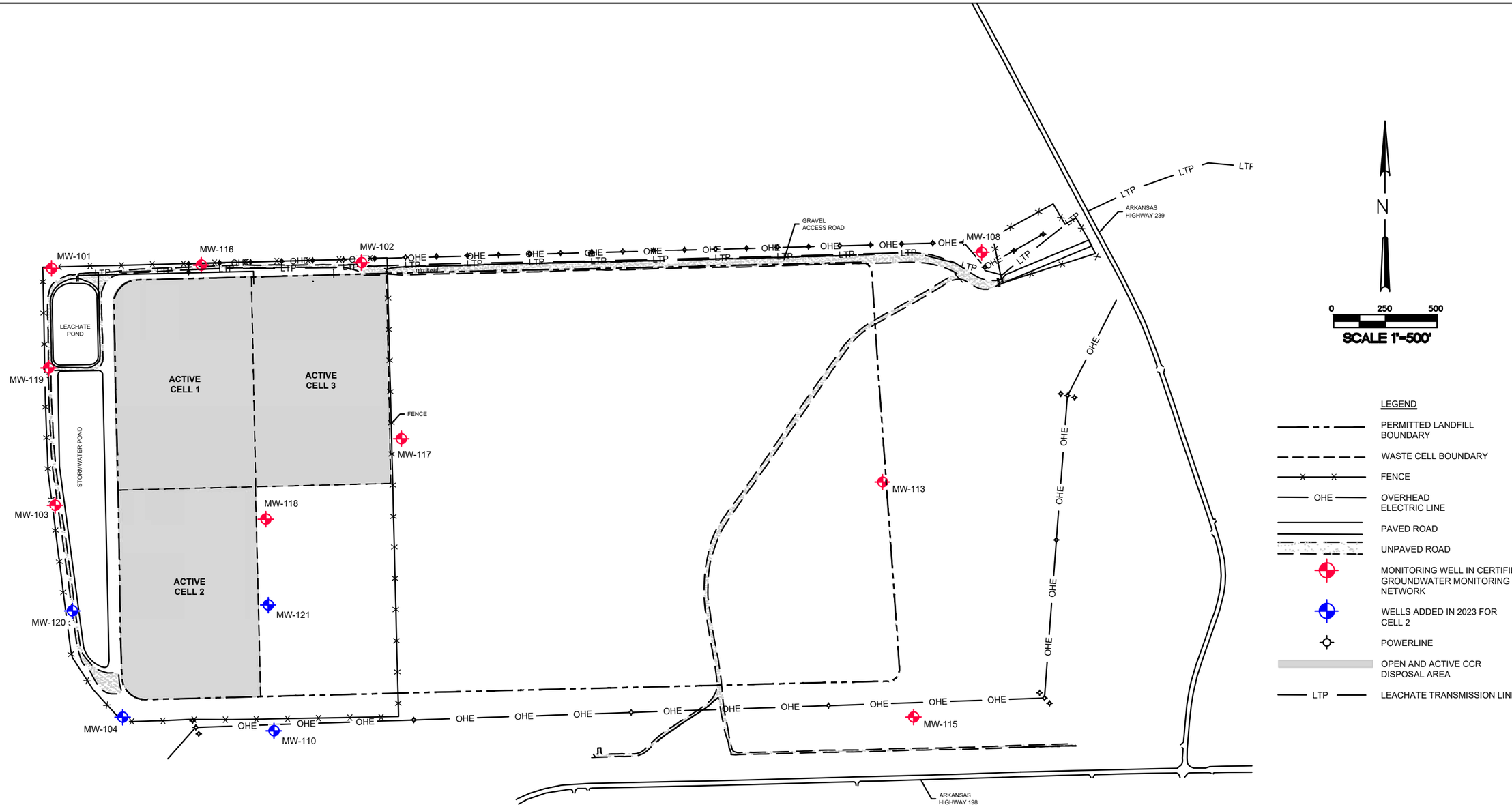
2.1 Monitoring Well Network

The certified groundwater monitoring network for the CCR rule includes the 10 monitoring wells shown on Figure 5 (FTN 2017a). Also shown on Figure 5, there are four additional wells located around cell 2. A narrative description of the purpose of these four additional wells is provided in Section 2.2. A summary of general well construction details is included in Table 1 and is based on available well installation and survey records. Each of wells listed in Table 1 is constructed of 2-inch, schedule 40 polyvinyl chloride (PVC) pipe, with 10-ft slotted well screens.

Table 1. Summary of well construction details.

Well Number	Well Installation Date	Ground Surface Elevation (ft NAVD88[a])	Measuring Point Elevation[b] (ft NAVD88)	Total Depth (ft below MP)	Screened Interval (ft NAVD88)
Certified Groundwater Monitoring Network					
MW-101	4/9/2001	239.4	242.75	33.6	219.2-209.2
MW-102	4/9/2001	240.5	243.99	30.2	223.8-213.8
MW-103	9/26/2007	240.5	243.25	32.8	220.5-210.5
MW-108	4/11/2001	241.8	245.11	32.4	222.7-212.7
MW-113	4/07/2009	241.5	244.63	35.9	223.7-208.7
MW-115	9/25/2007	240.4	243.55	33.0	220.6-210.6
MW-116	6/23/2015	239.3	243.97	31.9	222.5-212.5
MW-117	6/24/2015	239.4	242.53	34.2	218.5-208.5
MW-118	6/24/2015	238.0	241.23	31.4	220.2-210.2
MW-119	10/6/2016	243.6	246.53	35.4	221.1-211.1
Wells Added for Cell 2					
MW-104	5/4/2012	237.8	240.81	32.2	219.0-209.0
MW-110	9/25/2007	236.9	240.22	33.4	216.8-206.8
MW-120	5/17/2023	246.9	250.30	40.4	220.3-210.3
MW-121	5/16/2023	237.7	240.80	30.4	220.8-210.8

Notes:
a. North American Vertical Datum of 1988.
b. Measuring point (MP) is the surveyed and marked point on the top of casing (TOC) of each monitoring well.



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Figure 5. Monitoring well locations, Plum Point Energy Station.

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Each monitoring well shown on Figure 5 and listed in Table 1 is screened in the alluvial aquifer, the uppermost aquifer in the vicinity of the landfill. The direction of groundwater flow beneath the site is seasonally variable. As a result, there is not a hydraulically upgradient location with respect to active cells 1, 2 and 3. As allowed by §257.91(a)(1), the groundwater program utilizes wells for background water quality that are not hydraulically upgradient of the CCR management area. Monitoring wells MW-108, MW-113, and MW-115 (Figure 5) are used for this purpose because they are positioned outside the potential zone of impact from cells 1, 2 and 3. The rationale for this is based on the age of the landfill, the estimated maximum rate of groundwater flow, and the distance of MW-108, MW-113, and MW-115 from the CCR management area (FTN 2017a).

2.2 Groundwater Monitoring System Improvements During 2025

The 10 monitoring wells in the certified groundwater monitoring system were installed prior to 2025. None of the existing wells were altered or abandoned during 2025.

Four new wells, MW-104, MW-110, MW-120 and MW-121, were added to the CCR sampling program during 2023 in anticipation of construction of cell 2. It is anticipated that the groundwater monitoring system certification will be updated in 2026.

2.3 Sampling Schedule

In accordance with the CCR rule and the landfill's groundwater sampling and analysis plan (GWSAP), detection monitoring occurs semiannually at the 10 monitoring wells in the certified groundwater monitoring system and at the 4 additional monitoring wells installed. Table 2 summarizes the sampling events and sampling schedule for each well during 2025.

Detection monitoring events for the 2026 monitoring periods are tentatively scheduled for April and October 2026.

Table 2. 2025 sampling schedule.

Well ID	April 9 - 15	July 1 - 2	October 14-21	December 15-16
MW-101	DM	---	DM	---
MW-102	DM	VS	DM	---
MW-103	DM	---	DM	---
MW-104	DM	VS	DM	---
MW-108	DM	---	DM	---
MW-110	DM	VS	DM	---
MW-113	DM	---	DM	---
MW-115	DM	VS	DM	---
MW-116	DM	VS	DM	---
MW-117	DM	---	DM	VS
MW-118	DM	---	DM	VS
MW-119	DM	---	DM	---
MW-120	DM	---	DM	---
MW-121	DM	---	DM	VS

Notes:

DM = Detection monitoring sampling for appendix III parameters in accordance with the landfill's GWSAP (FTN 2017b) and SAP (FTN 2017c).

VS = Verification sampling for confirmation of statistically significant results from detection monitoring in accordance with the landfill's GWSAP (FTN 2017b) and SAP (FTN 2017c).

2.4 Monitoring Well Operation and Maintenance

The integrity of each monitoring well was inspected prior to commencement of groundwater sampling activities. Well casing, concrete pads, and bollards were inspected for any indications of damage and dedicated sampling equipment was assessed for visible damage. Noted damages and recommended repairs, if any, were communicated to PPSC.

2.5 Sampling Methodology

To ensure that monitoring results are an accurate representation of groundwater quality, sample collection follows the guidelines for sample collection, preservation, shipment, chain-of-custody (COC) control, and quality control outlined in the landfill's GWSAP (FTN 2017b). Groundwater sample collection during the 2025 monitoring events was performed in accordance with the landfill's GWSAP and EPA guidelines (Puls & Barcelona 1996). Groundwater was sampled with a Geopump Peristaltic Series II Pump and linear low-density polyethylene tubing. Field parameters were measured during purging and sampling using a Hach 2100P portable turbidity meter and a handheld YSI MPS 556 multiparameter instrument fitted with a flow-through cell. Field sampling forms for the 2025 monitoring events are provided in Appendix A.

2.6 Laboratory Analyses

Samples collected for each detection monitoring event are required to be analyzed for the 40 CFR Part 257 appendix III list of parameters provided in Table 3. Pace Analytical National (Pace), of Mt. Juliet, Tennessee, provided laboratory services for each sampling event performed during 2025. Samples were analyzed in accordance with EPA's *Test Methods for Evaluating Solid Waste Physical/Chemical Methods* (SW-846) (EPA 1986), or equivalent, and guidelines established by EPA. Laboratory reports from Pace are included in Appendix B.

Table 3. Appendix III parameters.

Appendix III to Part 257 – Parameters for Detection Monitoring	
Boron	Sulfate
Calcium	Total dissolved solids (TDS)
Chloride	pH (field-measured)
Fluoride	

3. DATA PRESENTATION

This section presents the data collected during the 2025 detection monitoring events. Water level data are presented in Section 3.1, field-measured groundwater quality data are presented in Section 3.2, laboratory analytical data are presented in Section 3.3, and a review of quality assurance and quality control (QA/QC) measures is presented in Section 3.4. Available field and laboratory data for these wells are included in the appendices.

3.1 Water Level Data

This section presents groundwater level measurements and groundwater flow characteristics determined from these measurements.

3.1.1 Water Level Measurements and Hydrograph

Static water levels were measured in all 10 monitoring wells and the four new wells prior to conducting any sampling activities for the April and October detection monitoring events. Water levels were measured using a Geotech water level meter on April 9, 2025, and on October 14, 2025, for the first and second half 2025 monitoring periods, respectively. Depth to water was measured to the nearest 0.01 ft from the MP located on the TOC of each well and recorded on the field water level data sheets included in Appendix A. Field water level measurements are tabulated in Table 4.

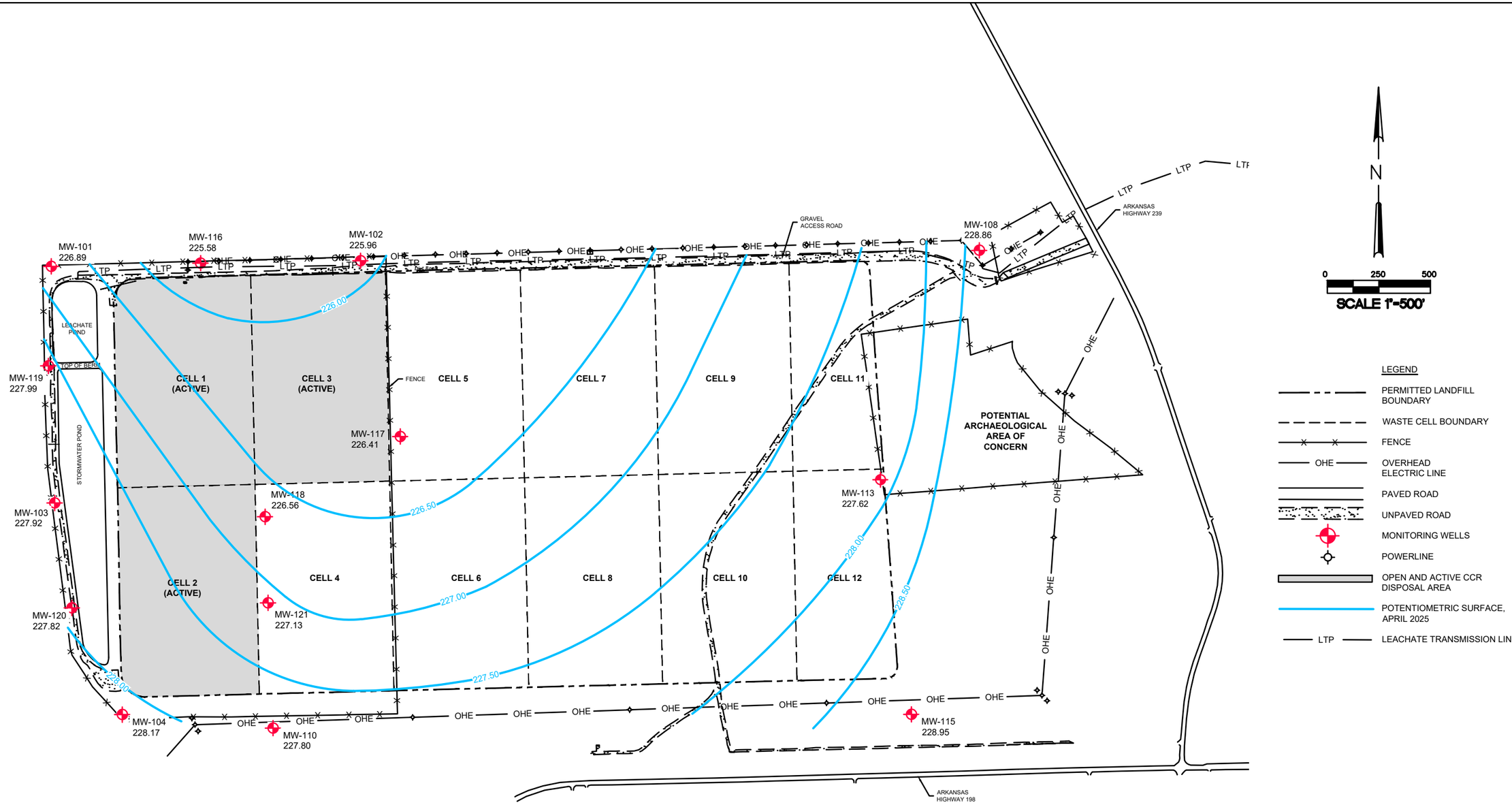
Hydrographs depicting water level elevations over time are included in Appendix C. As shown on the hydrograph, within-well water levels fluctuated seasonally as much as ±28 ft over the period of record for the CCR rule program.

3.1.2 Direction of Groundwater Flow

Depth-to-water measurements were converted to feet NAVD88 and used to construct the potentiometric surface maps shown on Figures 6 and 7. As shown on Figure 6, the direction of groundwater flow across the active landfill area during the April 2025 monitoring event was generally to the northeast across active cells 1 and 2 and relatively flat across active cell 3 with a slight northwestern flow. As shown on Figure 7, groundwater flow beneath the active landfill area was generally to the northeast during the October 2025 monitoring event.

Table 4. Water level data.

Well ID	MP Elevation (ft NAVD)	April 9, 2025		October 14, 2025	
		Depth to Water (ft below MP)	Groundwater Elevation (ft NAVD88)	Depth to Water (ft below MP)	Groundwater Elevation (ft NAVD88)
MW-101	242.75	15.86	226.89	21.42	221.33
MW-102	243.99	18.03	225.96	24.04	219.95
MW-103	243.25	15.33	227.92	22.06	221.19
MW-104	240.81	12.64	228.17	19.49	221.32
MW-108	245.11	16.25	228.86	28.58	216.53
MW-110	240.22	12.42	227.80	19.25	220.97
MW-113	244.63	17.01	227.62	26.59	218.04
MW-115	243.55	14.60	228.95	24.87	218.68
MW-116	243.97	18.39	225.58	23.87	220.10
MW-117	242.53	16.12	226.41	22.38	220.15
MW-118	241.23	14.67	226.56	20.42	220.81
MW-119	246.53	18.54	227.99	25.05	221.48
MW-120	250.30	22.48	227.82	29.01	221.29
MW-121	240.80	13.67	227.13	19.85	220.95

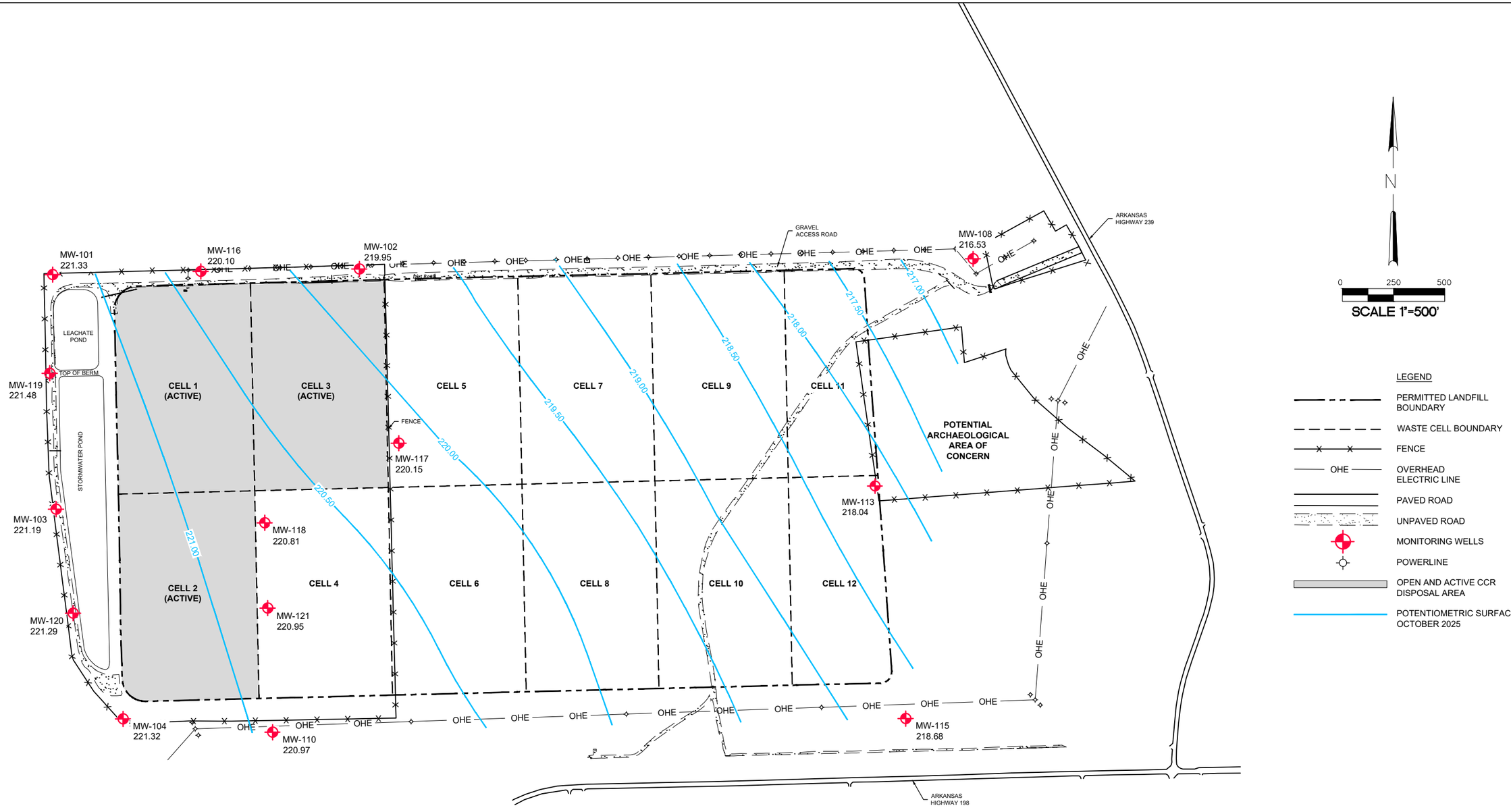


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Figure 6. Potentiometric surface, April 9, 2025.

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Figure 7. Potentiometric Surface, October 14, 2025.

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FIGURE

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3.1.3 Rate of Groundwater Flow

The rate of groundwater flow beneath the landfill is estimated based on Darcy's law, modified to account for the open space available for groundwater flow within the aquifer. The resulting equation used to estimate the average linear groundwater velocity, or rate of flow, is shown below (Kuo 1999):

$$V_x = K/n_e(dh/dl)$$

Where: V_x = linear velocity,
K = hydraulic conductivity,
n_e = effective porosity, and
dh/dl = hydraulic gradient.

The hydraulic conductivity (K) and the effective porosity (n_e) of the alluvial aquifer are 1.09×10^{-2} cm/sec and 27%, respectively, based on previous reports (GEC 2001). The hydraulic gradient (dh/dl) is calculated using water level elevations that most closely represent the flow line from upgradient to downgradient across cells 1 through 3. The April 2025 hydraulic gradient was estimated to be 1.2×10^{-3} ft/ft across cells 1 and 2 and 4.5×10^{-4} ft/ft across cell 3 using the potentiometric surface map shown on Figure 6. The October 2025 hydraulic gradient was estimated to be 9.7×10^{-4} ft/ft using the potentiometric surface map shown on Figure 7. Based on these values, the April 2025 V_x was calculated to be approximately 50 ft/year across active cells 1 and 2 and 21 ft/year across active cell 3. The October 2025 V_x was calculated to be approximately 42 ft/year. The estimated flow rates for this monitoring period are within historically reported values, which typically range from approximately 10 to 48 ft/year with exception for the 50 ft/year value that was just slightly higher than the historical high.

3.2 Field-Measured Water Quality Data

Groundwater sampling records for the 2025 monitoring events are included in Appendix A. Field-measured water quality parameters from the 2025 detection monitoring events are summarized in Table 5. A review of the field quality control samples is provided in Section 3.4.

Table 5. Field-measured water quality data.

Well	Date	Conductivity (µmhos/cm)	pH (su)	Temperature (C)	Turbidity (NTU)
First Half 2025 Detection Monitoring, April 2025					
MW-101	4/14/2025	586	6.9	18.7	1.6
MW-102	4/14/2025	915	6.7	19.3	4.0
MW-103	4/14/2025	610	6.5	19.5	9.9
MW-104	4/11/2025	464	6.7	16.8	1.5
MW-108	4/10/2025	714	6.8	19.6	1.3
MW-110	4/11/2025	467	6.9	17.9	8.7
MW-113	4/10/2025	439	6.8	17.9	0.9
MW-115	4/10/2025	624	6.8	17.8	1.3
MW-116	4/14/2025	903	6.6	20.5	2.3
MW-117	4/15/2025	562	6.6	17.8	1.1
MW-118	4/15/2025	417	6.5	17.1	1.5
MW-119	4/14/2025	529	6.8	19.3	1.4
MW-120	4/11/2025	410	6.6	18.1	1.4
MW-121	4/14/2025	255	6.5	19.7	1.2
First Half 2025 Verification Sampling, July 2025					
MW-102	7/2/2025	1,110	6.6	20.7	2.6
MW-104	7/1/2025	546	6.7	20.6	8.9
MW-110	7/1/2025	553	7.0	20.4	6.3
MW-115	7/1/2025	599	6.6	20.5	1.5
MW-116	7/2/2025	873	6.6	20.5	2.5
Second Half 2025 Detection Monitoring, October 2025					
MW-101	10/21/2025	520	6.7	18.4	4.0
MW-102	10/21/2025	913	6.6	20.0	3.8
MW-103	10/20/2025	535	6.7	19.9	6.8
MW-104	10/20/2025	488	6.7	18.7	8.7
MW-108	10/15/2025	649	6.9	22.4	2.8
MW-110	10/15/2025	508	7.1	20.5	8.9
MW-113	10/15/2025	352	6.7	19.6	3.3
MW-115	10/15/2025	571	6.7	19.5	3.4

Well	Date	Conductivity (µmhos/cm)	pH (su)	Temperature (C)	Turbidity (NTU)
MW-116	10/21/2025	751	6.5	20.7	3.4
MW-117	10/21/2025	505	6.5	20.1	3.3
MW-118	10/20/2025	588	6.4	19.9	3.3
MW-119	10/20/2025	517	6.8	20.3	3.3
MW-120	10/20/2025	360	6.6	18.5	3.4
MW-121	10/20/2025	398	6.3	21.0	3.1
Second Half 2025 Verification Sampling, December 2025					
MW-117	12/16/2025	509	6.5	16.3	1.4
MW-118	12/16/2025	527	6.2	16.8	1.3
MW-121	12/16/2025	286	6.1	18.2	1.3

3.3 Laboratory Analytical Data

Laboratory reports for detection monitoring performed during the 2025 monitoring periods are included in Appendix B. A review of laboratory QC information is provided in Section 3.4. Reported values along with field-measured pH are summarized in Tables 6 and 7 for the first and second half of 2025 detection monitoring events, respectively. EPA-promulgated maximum contaminant levels (MCLs) are shown for comparison purposes. Of the appendix III parameters listed in Tables 6 and 7, fluoride is the only parameter with an established MCL. As shown in Tables 6 and 7, none of the measured levels for fluoride were above the MCL of 4 mg/L. Data from these monitoring events are compiled in the landfill's historical groundwater database, included as Appendix D.

The laboratory reports are included in Appendix B and the data are compiled in Appendix D. A discussion of the background data evaluation is included in Appendix E.

Table 6. Summary of appendix III results, first half of 2025.

Well	Date Collected	Boron (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	pH (mg/L)
First Half 2025 Detection Monitoring, April 2025								
MW-101	4/14/2025	0.0622(J)	103	1.35(B)	0.22	3.75(J)	363	6.9
MW-102	4/14/2025	0.208	166	4.63(B)	0.142(J)	172	644	6.7
MW-103	4/14/2025	0.0866(J)	102	2.19(B)	0.185	39.7	383	6.5
MW-104	4/11/2025	0.0593(J)	92	2.04(B)[(a)]	0.255	8.52	326	6.7
MW-108	4/10/2025	0.114(J)	145	2.00(B)	0.176	35.2	463	6.8
MW-110	4/11/2025	0.0565(J)	75.5[(a)]	1.06(B)	0.185	7.25	326	6.9
MW-113	4/10/2025	0.0716(J)	75.8	0.907(J)	0.0957(J)	6.24	279	6.8
MW-115	4/10/2025	0.0561(J)	120	0.979(J)	0.21	11.3	407	6.8
MW-116	4/14/2025	0.105(J)	163	4.72(B)	0.204	81.8	576	6.6
MW-117	4/15/2025	0.0711(J)	108	1.25(B)	0.14(J)	23.8	381	6.6
MW-118	4/15/2025	0.0638(J)	76.5	0.905(J)	0.165	13.2	281	6.5
MW-119	4/14/2025	0.0538(J)	86.7	1.04(B)	0.22	17.5	319	6.8
MW-120	4/11/2025	0.0539(J)	77.2	2.29(B)	0.225[(a)]	15.3	291	6.6
MW-121	4/14/2025	<0.200	36.3	0.608(J)	0.127(J)	6.24	166	6.5
First Half 2025 Verification Sampling, July 2025								
MW-102	7/2/2025	0.415	---	---	---	258	852	6.6
MW-104	7/1/2025	---	---	1.98	---	6.69	---	6.7
MW-110	7/1/2025	---	---	---	---	---	326	7.0
MW-115	7/1/2025	---	---	---	---	6.89	---	6.6
MW-116	7/2/2025	---	154	---	---	---	570	6.6
Quality Control Samples								
MW-113 DUP[a]	4/10/2025	0.0726(J)	76.5	0.862(J)	<0.150	6.31	285	---
EB-1[a]	4/14/2025	<0.200	<1.00	1.48	<0.150	<5.00	<10.0	---
MW-102 DUP[b]	7/2/2025	0.412	---	---	---	259	841	---
EB-2[b]	7/2/2025	<0.200	<1.00	<1.00	---	<5.00	<10.0	---
EPA MCL		---	---	---	**4**	---	---	---

Notes:
"B" flag indicates that the analyte was detected in an associated quality control blank. "J" flag indicates that the analyte was detected at a level below the laboratory reporting detection limit (RDL); therefore the value is an estimate.

a. Value shown is the result of a laboratory re-run of the sample for verification purposes.
b. Duplicate sample and field equipment rinsate blank collected during the April sampling event.
c. Duplicate sample and field equipment rinsate blank collected during the July verification sampling event.

Table 7. Summary of appendix III results, second half of 2025.

Well	Date	Boron (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	pH (mg/L)
Second Half 2025 Detection Monitoring, October 2025								
MW-101	10/21/2025	0.0466(J)	92.4	2.15	0.302	5.33	348(B)	6.7
MW-102	10/21/2025	0.254	167	5.41	0.176	209	677(B)	6.6
MW-103	10/20/2025	0.0693(J)	97.7	1.56	0.229	20.7	361(B)	6.7
MW-104	10/20/2025	0.0542(J)	88.6	1.85	0.286	6.72[(a)]	333(B)	6.7
MW-108	10/15/2025	0.0746(J)	123	1.18	0.132(J)	15.2	426(B)	6.9
MW-110	10/15/2025	0.0567(J)	87.2	1.14	0.193	6.26	342(B)	7.1
MW-113	10/15/2025	0.0758(J)	53.4	0.565(J)	0.0875(J)	1.80(J)	236(B)	6.7
MW-115	10/15/2025	0.0570(J)	108	0.859(J)	0.187	2.21(J)	391(B)	6.7
MW-116	10/21/2025	0.102(J)	134[(a)]	3.06	0.174	55.6	521(B)	6.5
MW-117	10/21/2025	0.0726(J)	92.4	2.39	0.354	6.50[(a)]	333(B)	6.5
MW-118	10/20/2025	0.0879(J)	104[(a)]	1.59	0.149(J)	29.3[(a)]	406(B)	6.4
MW-119	10/20/2025	0.0534(J)	91.5	1.32	0.193	37.7	360(B)	6.8
MW-120	10/20/2025	0.0430(J)	60.1	1.32	0.155	19.3	244(B)	6.6
MW-121	10/20/2025	0.0580(J)	66.4	2.17	0.117(J)	16.5	272(B)	6.3
Second Half 2025 Verification Sampling, December 2025								
MW-117	12/16/2025	---	---	0.902(J)	0.141(J)	---	318	6.5
MW-118	12/16/2025	---	97.2[(a)]	---	---	25.8	336	6.2
MW-121	12/16/2025	---	45.3	---	---	---	196	6.1
Quality Control Samples								
MW-102 DUP[b]	10/21/2025	0.25	163	4.89	0.159	197	673	---
EB-1[b]	10/21/2025	<0.200	<1.00	<1.00	<0.150	<5.00	12.0	---
MW-118 DUP[c]	12/16/2025	---	96.7	---	---	26.9	345	---
EB-2[c]	12/16/2025	---	<1.00	<1.00	0.104(J)	0.865(J)	<10.0	---
EPA MCL		---	---	---	**4**	---	---	---

Notes:
"B" flag indicates that the analyte was detected in an associated quality control blank. "J" flag indicates that the analyte was detected at a level below the laboratory RDL; therefore the value is an estimate.

a. Value shown is the result of a laboratory re-run of the sample for verification purposes.
b. Duplicate sample and field equipment rinsate blank collected during the October sampling event.
c. Duplicate sample and field equipment rinsate blank collected during the December verification sampling event.

3.4 Quality Assurance and Quality Control

A review of laboratory and field QA/QC measures is presented below.

3.4.1 Review of Laboratory Quality Control Samples

Based on a review of the data quality documentation provided by Pace in Appendix B, samples were received by the laboratory in good condition, properly preserved, at the correct temperature, and were analyzed within holding times. The overall quality of the data relative to the contaminants of concern was acceptable and generally met method-specific requirements for precision and accuracy.

3.4.2 Review of Field Quality Control Samples

The GWSAP requires a minimum of one duplicate sample and one equipment rinsate blank to be collected per sampling event, or one per 20 groundwater samples collected. Each type of QA/QC sample is described below.

- Field duplicates are two separate samples taken from the same well and collected as close to each other in time as practical. The relative percent difference (RPD) is calculated for parameters where the reported levels in the duplicate pairs are at least five times the laboratory RDL and where neither result is qualified or suspected of contamination. If RPD values are ≤20%, then level of precision associated with the sampling and analytical methods is considered acceptable.
- Field equipment rinsate blanks are prepared by pouring deionized water over decontaminated sampling equipment. Results from these samples are used to verify that proper protocols for equipment decontamination were followed in the field. When a detection occurs above the RDL in a field quality control blank, detections of that parameter in groundwater samples are flagged with a “B” in the historical database. Groundwater samples with detections in associated laboratory quality control blanks are flagged according to laboratory procedures. EPA guidance (1986) recommends that detections in quality control blanks not be used to correct groundwater data.

All QA/QC samples collected during 2025 were handled in the same manner as groundwater samples with respect to sample collection, packaging, shipping, preservation, and COC procedures. A summary of the QA/QC evaluation is provided below:

- Calculated RPDs were below the quality control limit of 20% for all duplicate pairs evaluated, indicating that field methods produced samples with an acceptable level of reproducibility.
- Results for the equipment rinsate blanks were all below their respective laboratory RDLs, with the exception of chloride during the first half of 2025 sampling event and TDS during the second half 2025 sampling event, indicating field decontamination methods were effective. Chloride results detected above the RDL during the first half 2025 monitoring event and TDS results detected above the RDL during the second half 2025 monitoring event were flagged with a “B” in the historical database.

4. STATISTICAL EVALUATION

This section describes the statistical approach and evaluation of the detection monitoring data collected during 2025. Groundwater quality data were evaluated using the statistical software Sanitas version 10.0.24. Statistical analyses of the data were performed in accordance with the landfill's SAP.

4.1 Statistical Program Design

4.1.1 Statistical Approach

The statistical approach for groundwater monitoring at the landfill is described in the facility's SAP and adheres to recommendations in EPA's *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance*, released in March 2009 (Unified Guidance). Groundwater quality data collected for detection monitoring are evaluated with either an intrawell prediction limit combined with a "1 of 2" retesting strategy or with the Mann-Kendall/Sen's Slope test for trends. The technical basis for selecting these tests is discussed in the facility's SAP. Each test and its appropriate application is briefly discussed below.

A prediction limit tests for the likelihood that a new monitoring value (compliance value) comes from the same population as background data. Prediction limit analysis combined with retesting (verification sampling) is effective at reducing a monitoring program's site-wide false positive rate (SWFPR) and improving the statistical power of the monitoring program. The prediction limit test requires a minimum of 8 to 10 background values that are statistically independent and that exhibit stationarity. Retesting, or verification sampling, is performed if an initial sampling result exceeds a prediction limit. The "1 of 2" retesting strategy requires one verification sample be obtained within the same monitoring period as the initial sample. If the measured value in the verification sample also exceeds the prediction limit, then a statistically significant increase (SSI) (or statistically significant decrease [SSD] in the case of pH) is declared.

If data characteristics do not meet the requirements for a prediction limit test, the well-parameter pair is tested using the Mann-Kendall/Sen's Slope test for trends, as recommended by the Unified Guidance. If a statistically significant increasing trend (or statistically significant decreasing trend in the case of pH) is indicated, then this is evidence of possible deteriorating groundwater quality. While there is no explicit retesting strategy for the Mann-Kendall/Sen's Slope test (as there is for prediction limits), retesting can be applied (Cameron 2015).

Background data sets were updated, where applicable, prior to the second half of 2024 monitoring period. Results of the evaluation are summarized in Appendix E. The next background evaluation is anticipated to occur prior to the second half of 2026 monitoring period.

4.1.2 Site-Wide False Positive Rate

The Unified Guidance recommends that detection monitoring programs have adequate statistical power and an SWFPR (alpha) value of 10% over a one-year period of testing. As a result, the semiannual SWFPR is fixed at 5%. The magnitude of the per-test alpha will vary depending on how many statistical tests are required per semiannual evaluation. Input values used to determine the per-test alpha for intrawell prediction limit analyses combined with a "1 of 2" retesting strategy are listed in Table 8 for 2025.

Table 8. Values used to determine test alpha and power curve for 2025.

Test Alpha Inputs, 2025	
Statistical Test	Intrawell Prediction Limit
Number of Compliance Wells (w)	11
Minimum Background Sample Size (n)	8
Number of Constituents (c)	7
Resample Strategy	1 of 2
Semiannual SWFPR	0.05

4.1.3 Statistical Power

Statistical power is inversely related to the SWFPR and is an estimate of the rate at which false negative results will occur. To gauge statistical power, the Unified Guidance recommends the use of the EPA Reference Power Curve (ERPC) to estimate the ability of any individual test to identify an SSI or SSD. Any single statistical test should have the ability to detect an SSI or SSD 55% to 60% of the time at three standard deviations (3σ) above background and 80% to 85% of the time at 4σ above background. Input values for the detection monitoring program's power curve are listed in Table 8 for the 2025, and discussed below.

Figure 8 depicts the power curve for the well network during 2025 plotted against the ERPC. This curve shows that any single test is expected to detect SSIs or SSDs approximately 42% of the time at levels 3σ above background and approximately 78% of the time at levels 4σ above background. Given this comparison, the statistical power of the landfill's detection monitoring program is below EPA recommendations at levels 3σ and 4σ above background. The decreased statistical power during 2025 is due to some parameters at the newer wells having the minimum[1] number of values necessary to construct a prediction limit. It is anticipated that the statistical power of the program will improve as additional data are incorporated into the background data sets.

[1] The Unified Guidance recommends background data sets have a minimum of 8 to 10 values for statistical analysis using prediction limits. The minimum number of background values for the current data sets is 8.

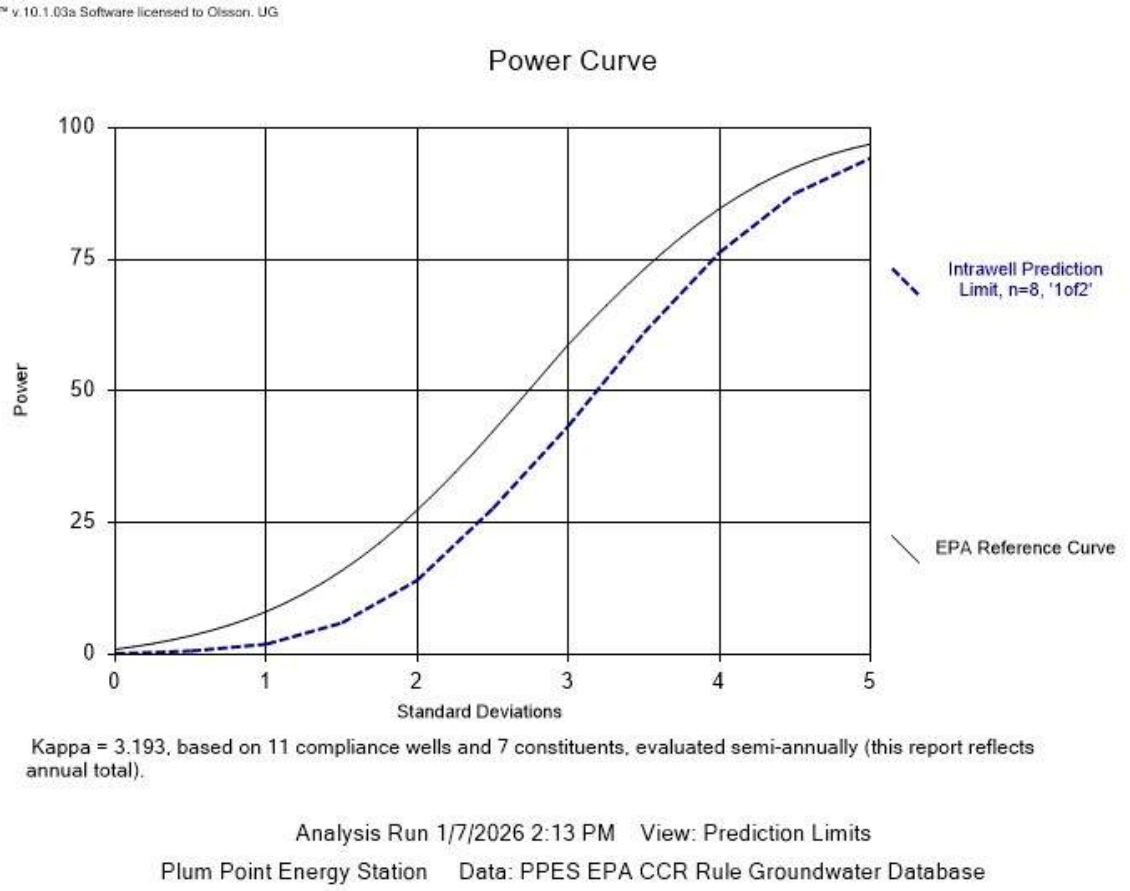


Figure 8. ERPC versus landfill power curve for detection monitoring, 2025.

4.2 Exploratory Data Analysis

Exploratory data analysis (EDA) includes viewing data graphically to identify apparent trends or excursions from normal ranges. To accomplish this, period-of-record data were screened using time-series plots, box-and-whiskers diagrams, and outlier tests. Time-series plots are used to visualize changes in data over time. Box-and-whiskers diagrams provide a graphic depiction of the mean, median, minimum, maximum, and interquartile range of a data set to assist with visualizing the variation in groundwater quality within and across wells. Outlier tests help identify values that are extremely different from other values in a given data set. Section 4.2.1 summarizes observations made from time-series and box-and-whiskers diagrams. Evaluation for the presence of outliers is discussed in Section 4.2.2. The graphical plots from the EDA evaluation are included in Appendix F.

4.2.1 Time-Series Plots and Box-and-Whiskers Diagrams

The following observations are based on a review of the time-series plots and box-and-whiskers diagrams (Appendix F):

- Calcium, chloride, fluoride, sulfate, and TDS values are variable across the network.
- Measured pH and boron are generally similar across the well network, with measured levels of boron being below the laboratory RDL for the period of record at all wells except for MW-102, which had detections above the RDL during the first and second half 2025 monitoring events.

4.2.2 Identification of Outliers

Period-of-record data for statistically evaluated wells were evaluated to identify possible outliers in the April and October 2025 data sets (Appendix F). Dixon's outlier test was applied to data sets with a normal distribution, or to populations that could be mathematically transformed so that they have a normal distribution. For data sets that did not have a normal distribution, the non-parametric Tukey's outlier screening was applied. Plots are included in Appendix F. Outlier testing identified five outliers in the April 2025 data set: calcium, sulfate and TDS at MW-102, chloride at MW-104 and sulfate at compliance well MW-115 were statistically high compared to their respective period-of-record data sets. Outlier testing identified five outliers in the October 2025 data set: calcium, sulfate and TDS at MW-102, fluoride at MW-117 and TDS at MW-121 were statistically high compared to their respective period-of-record data sets.

4.3 Statistical Evaluation Results

Groundwater quality data from the 2025 monitoring periods were statistically evaluated if they were detected at or above the laboratory RDL. Results detected below the RDL but above a method detection limit ("trace" values) are estimated values and therefore are not statistically evaluated. Trace values are flagged with a "J" in the laboratory reports provided in Appendix B and in the historical database included in Appendix D. Statistical analyses are not performed on nondetect data, which are flagged with a "U" in the laboratory reports (Appendix B) and represented in the historical database as less than (<) the RDL value for the method used (Appendix D).

4.3.1 Intrawell Prediction Limit Analysis, First Half of 2025

In accordance with §257.93(h), intrawell prediction limit analyses were performed on all detected appendix III parameters, except as noted in Section 4.3.2, using the background data sets identified in Appendix E. Results from the first half of 2025 monitoring period are summarized in Table 9 and graphical plots of the evaluation are included in Appendix G.

As shown in Table 9, three previously confirmed SSIs were identified for calcium, sulfate, and TDS at MW-117. Unverified SSIs for boron, sulfate and TDS at MW-102, chloride and sulfate at MW-104, TDS at MW-110, sulfate at compliance well MW-115, and calcium and TDS at MW-116, were also identified. Measurements for all other well-parameter pairs were below calculated intrawell prediction limits.

In accordance with the facility's SAP and "1 of 2" retesting strategy, verification sampling was performed during July 2025 for the unverified SSIs. As shown in Table 9, verification sampling results confirmed the SSIs for boron, sulfate and TDS at MW-102, chloride and sulfate at MW-104, TDS at MW-110, and calcium and TDS at MW-116 and disconfirmed the SSI for sulfate at compliance well MW-115.

Table 9. Summary of statistically significant results, intrawell prediction limit analysis, first half of 2025.

Parameter	Well	Prediction Limit (mg/L)	April 2025 Result (mg/L)	July 2025 Verification Result (mg/L)	SSI Confirmed?
Boron	MW-102	0.159	0.208	0.415	Yes
Calcium	MW-116	141.6	163	154	Yes
Calcium	MW-117	93.19	108	N/A[b]	Yes[b]
Chloride	MW-104	1.45	2.04[a]	1.98	Yes
Sulfate	MW-102	111.5	172	258	Yes
Sulfate	MW-104	6.402	8.52	6.69	Yes
Sulfate	MW-115	8.077	11.3	6.89	No
Sulfate	MW-117	8.222	23.8	N/A[b]	Yes[b]
TDS	MW-102	502.8	644	852	Yes
TDS	MW-110	333.1	326[c]	326[c]	Yes[c]
TDS	MW-116	534.1	576	570	Yes
TDS	MW-117	319.2	381	N/A[b]	Yes[b]

a. Value shown is the result of a laboratory re-run of the sample for verification purposes.
b. SSI was previously confirmed; verification sampling was not performed.
c. Data is deasonalized by Sanitas and deasonalized values exceed the prediction limit.

In response to the confirmed SSIs identified during the first half of 2025 detection monitoring period, PPSC completed a successful alternate source demonstration (ASD) in accordance with §257.94(e)(2). The ASD was certified by an Arkansas-registered professional engineer and an Arkansas-registered professional geologist on October 8, 2025, and the ASD is included with this report (Appendix H) as required by §257.94(e)(2). Based on the successful ASD, the facility continued with detection monitoring in accordance with §257.94.

4.3.2 Mann-Kendall/Theil-Sen Trend Line Test, First Half of 2025

Well-parameter pairs that are tested for compliance using the Mann-Kendall/Theil-Sen trend line test due to significant trends in background data sets are identified in Table E.2 of Appendix E. Period-of-record data were analyzed for each detected well-parameter pair listed in Table E.2 and test plots are included in Appendix G. The evaluation did not identify any statistically significant increasing trends in the period-of-record data sets.

4.3.3 Intrawell Prediction Limit Analysis, Second Half of 2025

In accordance with §257.93(h), intrawell prediction limit analyses were performed on all detected appendix III parameters, except as noted in Section 4.3.4, using the background data sets identified in Appendix E. Results from the second half of 2025 monitoring period are summarized in Table 10 and graphical plots of the evaluation are included in Appendix G.

As shown in Table 10, previously confirmed SSIs for boron, sulfate and TDS at MW-102, chloride and sulfate at MW-104, and TDS at MW-117 were identified along with unverified SSIs for chloride and fluoride at MW-117, calcium, sulfate and TDS at MW-118, and calcium and TDS at MW-121. Verification sampling was also performed for the previously confirmed SSI for TDS at MW-117. Measurements for all other well-parameter pairs were below calculated intrawell prediction limits.

In accordance with the facility's SAP and "1 of 2" retesting strategy, verification sampling was performed during December 2025 for the unverified SSIs. As shown in Table 10, verification sampling results disconfirmed the SSIs for chloride, fluoride and TDS at MW-117, calcium, sulfate and TDS at MW-118, and calcium and TDS at MW-121.

Table 10. Summary of statistically significant results, intrawell prediction limit analysis, second half of 2025.

Parameter	Well	Prediction Limit (mg/L)	October 2025 Result (mg/L)	December 2025 Verification Result (mg/L)	SSI Confirmed?
Boron	MW-102	0.159	0.254	NA[b]	Yes[b]
Calcium	MW-118	97.72	104[a]	97.2[a]	No
Calcium	MW-121	50.4	66.4	45.3	No
Chloride	MW-104	1.463	1.85	NA[b]	Yes[b]
Chloride	MW-117	1.858	2.39	0.902(J)	No
Fluoride	MW-117	0.1781	0.354	0.141(J)	No
Sulfate	MW-102	111.5	209	NA[b]	Yes[b]

Parameter	Well	Prediction Limit (mg/L)	October 2025 Result (mg/L)	December 2025 Verification Result (mg/L)	SSI Confirmed?
Sulfate	MW-104	6.402	6.72[a]	NA[b]	Yes[b]
Sulfate	MW-118	26.77	29.3[a]	25.8	No
TDS	MW-102	502.8	677	NA[b]	Yes[b]
TDS	MW-117	319.2	333	318	No
TDS	MW-118	381.9	406	336	No
TDS	MW-121	213.2	272	196	No

Notes: J – the reported value is an estimate.
a. Value shown is the result of a laboratory re-run of the sample for verification purposes.
b. SSI was previously confirmed; verification sampling was not performed.

In response to the confirmed SSIs identified during the second half of 2025 monitoring period, PPSC completed a successful ASD in accordance with §257.94(e)(2). The ASD was certified by an Arkansas-registered professional engineer and Arkansas-registered professional geologist on January 21, 2026, and the ASD is included with this report (Appendix H) as required by §257.94(e)(2). Based on the successful ASD, the facility will continue with detection monitoring in accordance with §257.94.

4.3.4 Mann-Kendall Test/Theil-Sen Trend Line, Second Half of 2025

Well-parameter pairs that are tested for compliance using the Mann-Kendall/Theil-Sen trend line test due to significant trends in background data sets are identified in Table E.2 of Appendix E. Period-of-record data were analyzed for each detected well-parameter pair in Table E.2 and test plots are included in Appendix G. The evaluation did not identify any statistically significant increasing trends in the period-of-record data sets.

5. CONCLUSIONS

The following recommendations and conclusions are based on a review of data for the landfill from the 2025 monitoring period:

1. The direction of groundwater flow varied between the first and second half of 2025 monitoring events. The April 2025 potentiometric surface map shows groundwater flow generally to the northeast across active cells 1 and 2 and relatively flat across active cell 3 with a slight northwestern flow. The October 2025 potentiometric surface map shows groundwater flow was generally to the northeast across the active landfill cells.
2. Of the appendix III parameters evaluated, only fluoride has an EPA-promulgated MCL. None of the measured values in groundwater exceeded the MCL for fluoride.
3. Time-series plots and box-and-whiskers diagrams show variability across the well network for the following appendix III parameters: calcium, chloride, fluoride, sulfate, and TDS. The remaining appendix III parameters, boron and pH, show relatively similar values across all wells, with measured boron being below the laboratory RDL for the period of record at all wells with the exception of MW-102, which had detections above the RDL during the first and second half 2025 monitoring periods.
4. A comparison of the statistical power curve for the detection monitoring program to the EPA Reference Power Curve indicates that statistical power of the detection monitoring program was below EPA recommendations at levels 3σ and 4σ above background during 2025. It is anticipated that the statistical power of the program will improve as additional data are incorporated into the background data sets at the newer wells.
5. Statistical evaluation of the first half of 2025 data set identified confirmed statistically significant increases (SSIs) for boron, sulfate and TDS at MW-102, chloride and sulfate at MW-104, TDS at MW-110, calcium and TDS at MW-116, and calcium, sulfate, and TDS at MW-117. PPSC completed a successful alternate source demonstration (ASD) in response to the SSIs in accordance with §257.94(e)(2). The ASD was certified by an Arkansas-registered professional engineer and Arkansas-registered professional geologist on October 8, 2025, and the ASD is included with this report in accordance with §257.94(e)(2). Based on the successful ASD, PPSC continued with detection monitoring in the second half of 2025 in accordance with §257.94.
6. Statistical evaluation of the second half of 2025 data set identified confirmed SSIs for boron, sulfate and TDS at MW-102 and chloride and sulfate at MW-104. PPSC completed a successful ASD in response to the SSIs in accordance with §257.94(e)(2). The ASD was certified by an Arkansas-registered professional engineer and Arkansas-registered professional geologist on January 21, 2026, and the ASD is included with this report in accordance with §257.94(e)(2). Based on the successful ASD, PPSC will continue with detection monitoring in the first half of 2026 in accordance with §257.94.

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APPENDIX A
FIELD SAMPLING FORMS

FIRST HALF 2025 DETECTION MONITORING SAMPLING EVENT
APRIL 2025

olsson

Groundwater Level Data Sheet

Project Name:	Project Number:	Investigator:	
Plum Point Energy Station EPA Program	A24-01343 EPA Program	Michael Clayton Olsson	Page 1 of 1
Weather Conditions:	**Measuring Device:**		
P/C, 58 DEGREES F, S@11	Geotech 200'		

Well ID	Date	Time	Depth to Water (feet below MP)	Damages/Repairs		
MW-101	4/9/25	1254	15.86	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-102	4/9/25	1304	18.03	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-103	4/9/25	1240	15.33	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-104	4/9/25	1228	12.64	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-108	4/9/25	1143	16.25	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-110	4/9/25	1215	12.42	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-113	4/9/25	1137	17.01	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-115	4/9/25	1131	14.60	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☒ See GW sampling record
MW-116	4/9/25	1259	18.39	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-117	4/9/25	1326	16.12	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-118	4/9/25	1319	14.67	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-119	4/9/25	1247	18.54	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-120	4/9/25	1235	22.48	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-121	4/9/25	1311	13.67	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record

Notes: MP=measuring point on the top of casing; GW=groundwater

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-101	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	4/14/25	Sampler Organization:	Olsson

Site Description

Weather: P/C		Air Temp. (ºF): 77		Wind: SW@16	
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:		Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:		Well diameter: inches 2 Total depth from TOC: feet TOC below/above ground: feet	Well locked? ☑ Yes ☐ No
Damages/repairs needed:					

Water Level Data

Measuring point description: ☑ Mark/notch on TOC ☐ North rim of TOC ☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	4/9/25	4/14/25	4/14/25	4/14/25	4/14/25	
Time	24-hour	1254	1300	1318	1332	1344	
Depth to Water	feet	15.86	15.91	15.91	15.91	15.91	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters: ☐ YSI ProPlus ☑ YSI MPS 556 ☐ Other: ☑ Hach 2100P Turbidimeter ☐ HF Scientific Turbidimeter ☐ Other:

Pump description: ☑ Peristaltic ☐ Bladder [☐ dedicated / ☐ portable] ☐ Submersible

Bailer description: ☐ Disposable polyethylene ☐ Disposable Teflon ☐ Disposable PVC

Purge depth: feet

Well goes dry during purging: ☐ Yes ☑ No

Casing vol.: gallons = [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408

Time	24-hour	1305	1310	1315	1320	1325	1330						Remarks
Purge vol.	gallons												
Purge rate	mL/min	380	380	380	380	380	380						
pH	su	6.97	6.97	6.97	6.91	6.92	6.93						
Temp.	ºC	18.88	18.92	18.60	18.70	18.71	18.68						
Conductivity	µS/cm	591	590	589	587	586	586						
DO	mg/L	2.57	2.45	2.41	2.26	2.25	2.26						
ORP	mV	101.1	103.2	106.4	111.7	110.1	107.8						
Turbidity	NTU	2.06	2.62	1.94	3.00	2.29	1.58						
Color/tint	--	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR						
Odor	--	NONE	NONE	NONE	NONE	NONE	NONE						

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW-101	4/14/25	1340	3	0	
EPA EB-1	4/14/25	1305	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by CMM

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-102	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	4/14/25	Sampler Organization:	Olsson

Site Description

Weather: PC		Air Temp. (ºF): 79		Wind: SW@18		
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:		Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:		Well diameter	inches 2	Well locked? ☑ Yes ☐ No
				Total depth from TOC	feet	
				TOC below/above ground	feet	
Damages/repairs needed:						

Water Level Data

Measuring point description:
☑ Mark/notch on TOC
☐ North rim of TOC
☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	4/9/25	4/14/25	4/14/25	4/14/25	4/14/25	
Time	24-hour	1304	1400	1423	1433	1447	
Depth to Water	feet	18.03	16.48	16.48	16.48	16.48	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth	feet		Well goes dry during purging: ☐ Yes ☑ No										
Casing vol.	gallons		= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408										
Time	24-hour	1405	1410	1415	1420	1425	1430						Remarks
Purge vol.	gallons												
Purge rate	mL/min	340	340	340	340	340	340						
pH	su	6.68	6.65	6.66	6.66	6.66	6.66						
Temp.	ºC	19.20	19.19	19.18	19.18	19.19	19.29						
Conductivity	µS/cm	913	914	916	916	916	915						
DO	mg/L	1.45	1.63	2.09	2.28	2.24	2.22						
ORP	mV	127.1	130.1	135.3	136.1	133.8	136.4						
Turbidity	NTU	2.09	4.21	7.24	5.86	4.84	3.97						
Color/tint	--	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR						
Odor	--	NONE	NONE	NONE	NONE	NONE	NONE						

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW-102	4/14/25	1435	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by CMM

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-103	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	4/14/25	Sampler Organization:	Olsson

Site Description

Weather: P/C	Air Temp. (ºF): 75	Wind: SW@18				
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:	Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:	Well diameter	inches	2	Well locked? ☑ Yes ☐ No
		Total depth from TOC	feet		
		TOC below/above ground	feet		
Damages/repairs needed:						

Water Level Data

Measuring point description:
☑ Mark/notch on TOC
☐ North rim of TOC
☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	4/9/5	4/14/25	4/14/25	4/14/25	4/14/25	
Time	24-hour	1240	1100	1117	1142	1158	
Depth to Water	feet	15.33	14.97	14.97	14.97	14.97	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth: feet
Casing vol.: gallons
Well goes dry during purging: ☐ Yes ☑ No
= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408

Time	24-hour	1105	1110	1115	1120	1125	1130	1135	1140				Remarks
Purge vol.	gallons												
Purge rate	mL/min	240	240	240	240	240	240	240	240				
pH	su	6.64	6.58	6.59	6.35	6.36	6.40	6.47	6.49				
Temp.	ºC	20.24	19.23	19.24	19.39	19.41	19.36	19.31	19.46				
Conductivity	µS/cm	606	613	612	611	611	611	610	610				
DO	mg/L	10.48	5.30	3.91	3.43	3.03	2.66	1.73	1.37				
ORP	mV	162.9	187.2	199.6	201.9	198.7	190.8	185.6	182.3				
Turbidity	NTU	32.5	21.4	13.2	13.7	12.5	11.6	10.2	9.93				
Color/tint	--	CLOUDY	CLOUDY	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR				
Odor	--	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE				

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW-103	4/14/25	1150	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by CMM

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-104	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	4/11/25	Sampler Organization:	Olsson

Site Description

Weather: CLOUDY		Air Temp. (ºF): 64		Wind: N@16		
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:		Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:		Well diameter	inches 2	Well locked? ☑ Yes ☐ No
				Total depth from TOC	feet	
				TOC below/above ground	feet	
Damages/repairs needed:						

Water Level Data

Measuring point description: ☑ Mark/notch on TOC ☐ North rim of TOC ☐ Other:		Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:					
		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	4/9/25	4/11/25	4/11/25	4/11/25	4/11/25	
Time	24-hour	1228	1245	1301	1317	1343	
Depth to Water	feet	12.64	12.68	12.68	12.68	12.68	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters: ☐ YSI ProPlus ☑ Hach 2100P Turbidimeter ☑ YSI MPS 556 ☐ HF Scientific Turbidimeter ☐ Other: ☐ Other:	Pump description: ☑ Peristaltic ☐ Bladder [☐ dedicated / ☐ portable] ☐ Submersible	Bailer description: ☐ Disposable polyethylene ☐ Disposable Teflon ☐ Disposable PVC

Purge depth	feet		Well goes dry during purging: ☐ Yes ☑ No										
Casing vol.	gallons		= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408										
Time	24-hour	1250	1255	1300	1305	1310	1315						Remarks
Purge vol.	gallons												
Purge rate	mL/min	260	260	260	260	260	260						
pH	su	6.77	6.73	6.73	6.74	6.74	6.74						
Temp.	ºC	15.95	16.20	16.26	16.79	16.69	16.77						
Conductivity	µS/cm	471	465	464	465	465	464						
DO	mg/L	3.40	2.57	2.40	2.17	2.18	2.04						
ORP	mV	116.5	113.0	111.7	108.8	107.2	106.3						
Turbidity	NTU	3.25	6.54	2.62	2.55	1.85	1.51						
Color/tint	--	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR						
Odor	--	NONE	NONE	NONE	NONE	NONE	NONE						

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW-104	4/11/25	1330	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by CMM

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-108	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	4/10/25	Sampler Organization:	Olsson

Site Description

Weather: CLOUDY	Air Temp. (ºF): 77	Wind: WSW@8				
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:	Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:	Well diameter	inches	2	Well locked? ☑ Yes ☐ No
		Total depth from TOC	feet		
		TOC below/above ground	feet		
Damages/repairs needed:					

Water Level Data

Measuring point description:
☑ Mark/notch on TOC
☐ North rim of TOC
☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	4/9/25	4/10/25	4/10/25	4/10/25	4/10/25	
Time	24-hour	1143	1320	1338	1352	1405	
Depth to Water	feet	16.25	15.54	15.54	15.54	15.54	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth	feet		Well goes dry during purging: ☐ Yes ☑ No										
Casing vol.	gallons		= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408										
Time	24-hour	1325	1330	1335	1340	1345	1350						Remarks
Purge vol.	gallons												
Purge rate	mL/min	260	260	260	260	260	260						
pH	su	6.96	6.88	6.87	6.86	6.85	6.84						
Temp.	ºC	19.96	19.59	19.71	19.65	19.58	19.63						
Conductivity	µS/cm	719	720	722	719	717	714						
DO	mg/L	6.21	2.12	1.92	1.55	1.42	1.19						
ORP	mV	162.3	159.1	157.4	154.2	152.2	148.5						
Turbidity	NTU	2.26	1.72	1.62	1.38	1.18	1.29						
Color/tint	--	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR						
Odor	--	NONE	NONE	NONE	NONE	NONE	NONE						

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW-108	4/10/25	1400	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by CMM

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-110	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	4/11/25	Sampler Organization:	Olsson

Site Description

Weather: P/C	Air Temp. (ºF): 63	Wind: N@15				
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:	Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:	Well diameter	inches	2	Well locked? ☑ Yes ☐ No	
		Total depth from TOC	feet			
		TOC below/above ground	feet			
Damages/repairs needed:						

Water Level Data

Measuring point description:
☑ Mark/notch on TOC
☐ North rim of TOC
☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	4/9/25	4/11/25	4/11/25	4/11/25	4/11/25	
Time	24-hour	1215	1110	1133	1157	1216	
Depth to Water	feet	12.42	12.37	12.37	12.37	12.37	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth: feet
Casing vol.: gallons
Well goes dry during purging: ☐ Yes ☑ No
= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408

Time	24-hour	1120	1125	1130	1135	1140	1145	1150	1155				Remarks
Purge vol.	gallons												
Purge rate	mL/min	300	300	200	100	100	100	100	100				
pH	su	6.93	6.94	6.92	6.95	6.93	6.93	6.95	6.92				
Temp.	ºC	17.97	17.73	17.75	17.91	17.82	17.53	17.73	17.86				
Conductivity	µS/cm	463	460	466	467	469	469	468	467				
DO	mg/L	2.30	0.63	0.55	0.57	0.52	0.48	0.45	0.44				
ORP	mV	122.1	99.7	41.7	18.8	17.1	8.7	11.7	8.1				
Turbidity	NTU	40.6	36.0	36.8	30.1	26.0	17.8	12.7	8.71				
Color/tint	--	CLOUDY	CLOUDY	CLOUDY	CLOUDY	CLOUDY	CLEAR	CLEAR	CLEAR				
Odor	--	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE				

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW-110	4/11/25	1205	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by CMM

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-113	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	4/10/25	Sampler Organization:	Olsson

Site Description

Weather: P/C	Air Temp. (ºF): 74	Wind: WSW@5				
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:	Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:	Well diameter	inches	2	Well locked? ☑ Yes ☐ No
		Total depth from TOC	feet		
		TOC below/above ground	feet		
Damages/repairs needed:					

Water Level Data

Measuring point description:
☑ Mark/notch on TOC
☐ North rim of TOC
☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	4/9/25	4/10/25	4/10/25	4/10/25	4/10/25	
Time	24-hour	1137	1210	1233	1241	1305	
Depth to Water	feet	17.01	16.54	16.53	16.53	16.53	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth	feet		Well goes dry during purging: ☐ Yes ☑ No										
Casing vol.	gallons		= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408										
Time	24-hour	1215	1220	1225	1230	1235	1240						Remarks
Purge vol.	gallons												
Purge rate	mL/min	280	280	280	280	280	280						
pH	su	6.88	6.82	6.82	6.80	6.79	6.79						
Temp.	ºC	18.18	17.89	17.97	17.96	17.98	17.90						
Conductivity	µS/cm	456	444	441	440	438	439						
DO	mg/L	4.98	3.49	3.42	3.50	3.70	3.92						
ORP	mV	149.7	154.2	155.0	154.2	152.3	151.3						
Turbidity	NTU	1.57	2.54	1.14	0.96	1.06	0.92						
Color/tint	--	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR						
Odor	--	NONE	NONE	NONE	NONE	NONE	NONE						

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW-113	4/10/25	1244	3	0	
MW-113 Dup	4/10/25	1245	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by CMM

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-115	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	4/10/25	Sampler Organization:	Olsson

Site Description

Weather: CLEAR	Air Temp. (ºF): 71	Wind: W@3				
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:	Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:	Well diameter	inches	2	Well locked? ☑ Yes ☐ No
		Total depth from TOC	feet		
		TOC below/above ground	feet		
Damages/repairs needed:					

Water Level Data

Measuring point description:
☑ Mark/notch on TOC
☐ North rim of TOC
☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	4/9/25	4/10/25	4/10/25	4/10/25	4/10/25	
Time	24-hour	1131	1100	1128	1136	1155	
Depth to Water	feet	14.60	14.27	14.27	14.27	14.27	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth	feet		Well goes dry during purging: ☐ Yes ☑ No											
Casing vol.	gallons		= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408											
Time	24-hour	1115	1120	1125	1130	1135								Remarks
Purge vol.	gallons													
Purge rate	mL/min	260	260	260	260	260								
pH	su	6.78	6.78	6.79	6.79	6.80								
Temp.	ºC	17.90	17.25	17.38	17.70	17.80								
Conductivity	µS/cm	634	627	626	625	624								
DO	mg/L	2.30	2.22	1.98	1.83	1.79								
ORP	mV	172.4	195.2	191.4	180.9	185.6								
Turbidity	NTU	1.21	1.45	1.65	1.42	1.28								
Color/tint	--	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR								
Odor	--	NONE	NONE	NONE	NONE	NONE								

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW-115	4/10/25	1140	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by CMM

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-116	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	4/14/25	Sampler Organization:	Olsson

Site Description

Weather: P/C	Air Temp. (ºF): 75	Wind: SW@16				
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:	Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:	Well diameter	inches	2	Well locked? ☑ Yes ☐ No
		Total depth from TOC	feet		
		TOC below/above ground	feet		
Damages/repairs needed:						

Water Level Data

Measuring point description:
☑ Mark/notch on TOC
☐ North rim of TOC
☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	4/9/25	4/14/25	4/14/25	4/14/25	4/14/25	
Time	24-hour	1259	1615	1627	1642	1700	
Depth to Water	feet	18.13	17.09	17.09	17.09	17.09	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth	feet		Well goes dry during purging: ☐ Yes ☑ No											
Casing vol.	gallons		= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408											
Time	24-hour	1620	1625	1630	1635	1640								Remarks
Purge vol.	gallons													
Purge rate	mL/min	340	340	340	340	340								
pH	su	6.65	6.65	6.64	6.65	6.64								
Temp.	ºC	20.76	20.59	20.38	20.41	20.45								
Conductivity	µS/cm	882	891	902	902	903								
DO	mg/L	2.22	3.10	3.38	3.26	3.14								
ORP	mV	139.5	129.7	120.8	119.6	118.9								
Turbidity	NTU	2.43	2.23	1.92	1.93	2.25								
Color/tint	--	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR								
Odor	--	NONE	NONE	NONE	NONE	NONE								

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW-116	4/14/25	1650	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by CMM

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-117	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	4/15/25	Sampler Organization:	Olsson

Site Description

Weather: CLEAR		Air Temp. (ºF):	Wind:		
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:		Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:	Well diameter	inches	2
			Total depth from TOC	feet	
			TOC below/above ground	feet	
Well locked? ☑ Yes ☐ No					
Damages/repairs needed:					

Water Level Data

Measuring point description:
☑ Mark/notch on TOC
☐ North rim of TOC
☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	4/9/25	4/15/25	4/15/25	4/15/25	4/15/25	
Time	24-hour	1326	1150	1213	1223	1238	
Depth to Water	feet	16.12	15.08	15.08	15.08	15.08	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth	feet		Well goes dry during purging: ☐ Yes ☑ No										
Casing vol.	gallons		= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408										
Time	24-hour	1155	1200	1205	1210	1215	1220						Remarks
Purge vol.	gallons												
Purge rate	mL/min	300	300	300	300	300	300						
pH	su	6.63	6.60	6.62	6.61	6.61	6.61						
Temp.	ºC	17.90	17.77	17.77	17.79	17.77	17.75						
Conductivity	µS/cm	562	563	564	563	562	562						
DO	mg/L	1.13	1.66	0.63	0.44	0.36	0.33						
ORP	mV	92.0	31.4	14.7	16.6	19.6	11.7						
Turbidity	NTU	1.38	1.79	1.33	1.05	0.86	1.05						
Color/tint	--	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR						
Odor	--	NONE	NONE	NONE	NONE	NONE	NONE						

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW-117	4/15/25	1230	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by CMM

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-118	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	4/15/25	Sampler Organization:	Olsson

Site Description

Weather: CLEAR		Air Temp. (ºF):	Wind:		
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:		Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:	Well diameter	inches	2
			Total depth from TOC	feet	
			TOC below/above ground	feet	
Well locked? ☑ Yes ☐ No					
Damages/repairs needed:					

Water Level Data

Measuring point description:
☑ Mark/notch on TOC
☐ North rim of TOC
☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	4/9/25	4/15/25	4/15/25	4/15/25	4/15/25	
Time	24-hour	1319	1050	1113	1122	1141	
Depth to Water	feet	14.67	13.69	13.69	13.69	13.69	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth	feet		Well goes dry during purging: ☐ Yes ☑ No										
Casing vol.	gallons		= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408										
Time	24-hour	1055	1100	1105	1110	1115	1120						Remarks
Purge vol.	gallons												
Purge rate	mL/min	290	290	290	290	290	290						
pH	su	6.47	6.45	6.47	6.49	6.50	6.50						
Temp.	ºC	17.15	17.04	16.95	17.07	17.07	17.09						
Conductivity	µS/cm	421	420	418	417	417	417						
DO	mg/L	2.09	1.46	0.99	0.87	0.88	0.89						
ORP	mV	167.9	155.7	142.8	129.5	124.0	120.2						
Turbidity	NTU	1.03	1.11	1.33	1.01	1.04	1.45						
Color/tint	--	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR						
Odor	--	NONE	NONE	NONE	NONE	NONE	NONE						

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW-118	4/15/25	1130	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by CMM

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-119	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	4/14/25	Sampler Organization:	Olsson

Site Description

Weather: CLEAR	Air Temp. (ºF): 77	Wind: SW@16				
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:	Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:	Well diameter	inches	2	Well locked? ☑ Yes ☐ No
		Total depth from TOC	feet		
		TOC below/above ground	feet		
Damages/repairs needed:						

Water Level Data

Measuring point description:
☑ Mark/notch on TOC
☐ North rim of TOC
☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	4/9/25	4/14/25	4/14/25	4/14/25	4/14/25	
Time	24-hour	1247	1205	1223	1238	1256	
Depth to Water	feet	18.54	18.74	18.74	18.74	18.74	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth: feet
Well goes dry during purging: ☐ Yes ☑ No
Casing vol.: gallons
= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408

Time	24-hour	1210	1215	1220	1225	1230	1235						Remarks
Purge vol.	gallons												
Purge rate	mL/min	400	400	400	400	400	400						
pH	su	6.83	6.79	6.79	6.79	6.79	6.79						
Temp.	ºC	19.50	19.37	19.30	19.38	19.31	19.30						
Conductivity	µS/cm	560	562	544	538	531	529						
DO	mg/L	4.41	3.90	4.31	4.19	4.17	3.54						
ORP	mV	190.5	183.2	176.5	173.1	171.0	169.3						
Turbidity	NTU	5.10	1.89	1.45	1.95	2.49	1.43						
Color/tint	--	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR						
Odor	--	NONE	NONE	NONE	NONE	NONE	NONE						

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW-119	4/14/25	1245	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by CMM

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-120	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	4/11/25	Sampler Organization:	Olsson

Site Description

Weather: CLOUDY		Air Temp. (ºF): 63		Wind: N@15		
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:		Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:		Well diameter	inches 2	Well locked? ☑ Yes ☐ No
				Total depth from TOC	feet	
				TOC below/above ground	feet	
Damages/repairs needed:						

Water Level Data

Measuring point description: ☑ Mark/notch on TOC ☐ North rim of TOC ☐ Other:		Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:					
		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	4/19/25	4/11/25	4/11/25	4/11/25	4/11/25	
Time	24-hour	1235	1350	1412	1427	1434	
Depth to Water	feet	22.48	22.43				
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:				Pump description:	Bailer description:
☐ YSI ProPlus	☑ Hach 2100P Turbidimeter			☑ Peristaltic	☐ Disposable polyethylene
☑ YSI MPS 556	☐ HF Scientific Turbidimeter			☐ Bladder [☐ dedicated / ☐ portable]	☐ Disposable Teflon
☐ Other:	☐ Other:			☐ Submersible	☐ Disposable PVC

Purge depth	feet		Well goes dry during purging: ☐ Yes ☑ No										
Casing vol.	gallons		= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408										
Time	24-hour	1400	1405	1410	1415	1420	1425						Remarks
Purge vol.	gallons												
Purge rate	mL/min	260	260	260	260	260	260						
pH	su	6.62	6.60	6.59	6.60	6.59	6.60						
Temp.	ºC	18.29	18.22	18.31	18.07	17.92	18.10						
Conductivity	µS/cm	441	436	428	423	418	410						
DO	mg/L	4.19	2.21	2.33	2.38	2.46	2.51						
ORP	mV	164.5	152.5	147.2	143.3	139.2	135.8						
Turbidity	NTU	2.23	1.42	1.20	1.17	0.68	1.42						
Color/tint	--	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR						
Odor	--	NONE	NONE	NONE	NONE	NONE	NONE						

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW-120	4/11/25	1435	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by CMM

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-121	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	4/14/25	Sampler Organization:	Olsson

Site Description

Weather: P/C	Air Temp. (ºF): 80	Wind: SW@18				
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:	Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:	Well diameter	inches	2	Well locked? ☑ Yes ☐ No	
		Total depth from TOC	feet			
		TOC below/above ground	feet			
Damages/repairs needed:						

Water Level Data

Measuring point description:
☑ Mark/notch on TOC
☐ North rim of TOC
☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	4/9/25	4/14/25	4/14/25	4/14/25	4/14/25	
Time	24-hour	1311	1500	1518	1533	1546	
Depth to Water	feet	13.67	12.95	12.95	12.95	12.95	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth	feet		Well goes dry during purging: ☐ Yes ☑ No										
Casing vol.	gallons		= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408										
Time	24-hour	1505	1510	1515	1520	1525	1530						Remarks
Purge vol.	gallons												
Purge rate	mL/min	320	320	320	320	320	320						
pH	su	6.60	6.55	6.52	6.51	6.50	6.50						
Temp.	ºC	19.83	19.71	19.80	19.79	19.74	19.73						
Conductivity	µS/cm	289	263	258	256	255	255						
DO	mg/L	2.03	0.98	0.81	0.55	0.47	0.45						
ORP	mV	126.9	119.4	111.6	95.9	90.0	87.3						
Turbidity	NTU	1.45	1.62	1.71	1.91	1.52	1.15						
Color/tint	--	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR						
Odor	--	NONE	NONE	NONE	NONE	NONE	NONE						

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW-121	4/14/25	1540	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by CMM

FIRST HALF 2025 VERIFICATION SAMPLING EVENT
JULY 2025

olsson

Groundwater Level Data Sheet

Project Name:	Project Number:	Investigator:	
Plum Point Energy Station EPA Program	A24-01343 EPA Program	Michael Clayton Olsson	Page 1 of 1
Weather Conditions: P/C, 83 DEGREES F, N@6	**Measuring Device:** Geotech 100'		

Well ID	Date	Time	Depth to Water (feet below MP)	Damages/Repairs		
MW-101	7/1/25	1250	10.42	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-102	7/1/25	1302	12.17	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-103	7/1/25	1235	11.66	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-104	7/1/25	1224	9.30	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-108	7/1/25	1131	14.60	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-110	7/1/25	1201	8.74	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-113	7/1/25	1126	13.21	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-115	7/1/25	1120	12.26	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☒ See GW sampling record
MW-116	7/1/25	1256	12.69	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-117	7/1/25	1311	10.82	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-118	7/1/25	1214	9.73	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-119	7/1/25	1242	14.27	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-120	7/1/25	1230	18.81	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-121	7/1/25	1208	9.46	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☒ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record

Notes: MP=measuring point on the top of casing; GW=groundwater

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW102	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	7/2/2025	Sampler Organization:	Olsson

Site Description

Weather: Sunny/clear		Air Temp. (ºF): 88		Wind: N@3		
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:		Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:		Well diameter	inches	2
				Total depth from TOC	feet	
				TOC below/above ground	feet	
Damages/repairs needed:						

Well locked? ☑ Yes ☐ No

Water Level Data

Measuring point description: ☑ Mark/notch on TOC ☐ North rim of TOC ☐ Other:

Water level meter: ☑ Geotech/Keck 100' ☐ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	7/1/25	7/2/25	7/2/25	7/2/25	7/2/25	
Time	24-hour	1302	1145	1207	1222	1239	
Depth to Water	feet	12.17	12.34	12.34	12.34	12.34	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters: ☐ YSI ProPlus ☑ YSI MPS 556 ☐ Other: ☑ Hach 2100P Turbidimeter ☐ HF Scientific Turbidimeter ☐ Other:

Pump description: ☑ Peristaltic ☐ Bladder [☐ dedicated / ☐ portable] ☐ Submersible

Bailer description: ☐ Disposable polyethylene ☐ Disposable Teflon ☐ Disposable PVC

Purge depth	feet		Well goes dry during purging: ☐ Yes ☑ No										
Casing vol.	gallons		= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408										
Time	24-hour	1150	1155	1200	1205	1210	1215	1220					Remarks
Purge vol.	gallons												
Purge rate	mL/min	200	200	200	200	200	200	200					
pH	su	6.67	6.66	6.66	6.66	6.65	6.64	6.64					
Temp.	ºC	21.39	21.19	21.13	21.34	21.29	21.01	20.71					
Conductivity	µS/cm	1109	1108	1110	1109	1109	1110	1110					
DO	mg/L	1.05	0.89	0.87	0.83	0.83	0.82	0.82					
ORP	mV	126.6	154.2	136.5	138.3	139.8	141.7	143.4					
Turbidity	NTU	21.9	2.98	2.39	2.13	2.36	2.87	2.58					
Color/tint	--	Clear	Clear	Clear	Clear	Clear	Clear	Clear					
Odor	--	None	None	None	None	None	None	None					

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW102	7/2/25	1230	3	0	
MW102 Dup	7/2/25	1235	3	0	
EPA EB2	7/2/25	1255	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	Transcribed by CMM

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW104	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	7/1/2025	Sampler Organization:	Olsson

Site Description

Weather: Partly cloudy		Air Temp. (ºF): 88		Wind: N@9		
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:		Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:		Well diameter	inches 2	Well locked? ☑ Yes ☐ No
				Total depth from TOC	feet	
				TOC below/above ground	feet	
Damages/repairs needed:						

Water Level Data

Measuring point description: ☑ Mark/notch on TOC ☐ North rim of TOC ☐ Other:		Water level meter: ☑ Geotech/Keck 100' ☐ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:					
		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	7/1/25	7/1/25	7/1/25	7/1/25	7/1/25	
Time	24-hour	1224	1720	1746	1801	1812	
Depth to Water	feet	9.30	9.30	9.67	9.67	9.67	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:			Pump description:	Bailer description:
☐ YSI ProPlus	☑ Hach 2100P Turbidimeter		☑ Peristaltic	☐ Disposable polyethylene
☑ YSI MPS 556	☐ HF Scientific Turbidimeter		☐ Bladder [☐ dedicated / ☐ portable]	☐ Disposable Teflon
☐ Other:	☐ Other:		☐ Submersible	☐ Disposable PVC

Purge depth	feet		Well goes dry during purging: ☐ Yes ☑ No										
Casing vol.	gallons		= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408										
Time	24-hour	1725	1730	1735	1740	1745	1750	1755	1800				Remarks
Purge vol.	gallons												
Purge rate	mL/min	110	110	110	110	110	70	70	70				
pH	su	6.70	6.68	6.56	6.59	6.64	6.65	6.70	6.72				
Temp.	ºC	19.57	20.02	20.31	20.04	20.09	20.68	20.51	20.58				
Conductivity	µS/cm	547	547	549	548	547	545	548	546				
DO	mg/L	0.68	0.67	0.70	0.60	0.55	0.53	0.54	0.53				
ORP	mV	134.8	135.7	142.1	130.9	124.3	120.2	116.4	113.9				
Turbidity	NTU	272	136	57.5	29.4	17.8	20.1	13.3	8.92				
Color/tint	--	Orange part	Orange part	Orange part	Orange part	Clear	Clear	Clear	Clear				
Odor	--	None	None	None	None	None	None	None	None				

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW104	7/1/25	1810	1	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	Transcribed by CMM

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW110	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	7/1/2025	Sampler Organization:	Olsson

Site Description

Weather: P/C		Air Temp. (ºF): 88		Wind: N @ 7		
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:		Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:		Well diameter	inches	2
				Total depth from TOC	feet	
				TOC below/above ground	feet	
Damages/repairs needed:						

Well locked?
☑ Yes
☐ No

Water Level Data

Measuring point description:
☐ Mark/notch on TOC
☑ North rim of TOC
☐ Other:

Water level meter: ☑ Geotech/Keck 100' ☐ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	7/1/25	7/1/25	7/1/25	7/1/25	7/1/25	
Time	24-hour	1201	1625	1638	1657	1712	
Depth to Water	feet	8.74	8.74	8.74	8.74	8.74	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth: feet
Casing vol.: gallons

Well goes dry during purging: ☐ Yes ☑ No

= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408

Time	24-hour	1630	1635	1640	1645	1650	1655						Remarks
Purge vol.	gallons												
Purge rate	mL/min	190	190	190	190	190	190						
pH	su	6.98	6.93	6.95	6.95	6.97	6.96						
Temp.	ºC	20.60	20.64	20.66	20.60	20.52	20.44						
Conductivity	µS/cm	556	554	553	552	553	553						
DO	mg/L	0.91	0.39	0.27	0.23	0.22	0.21						
ORP	mV	138.6	132.6	125.9	115.4	104.8	99.4						
Turbidity	NTU	34.0	18.2	9.25	7.19	6.83	6.28						
Color/tint	--	CLOUDY	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR						
Odor	--	NONE	NONE	NONE	NONE	NONE	NONE						

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW110	7/1/25	1700	1	0	1 X LTN No pres "TDS"

Sampler's Name (print):	Michael Clayton	Sampler Signature:	Transcribed by CMM

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW115	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	7/1/2025	Sampler Organization:	Olsson

Site Description

Weather: P/C	Air Temp. (ºF): 87	Wind: N @ 8				
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:	Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:	Well diameter	inches	2	Well locked? ☑ Yes ☐ No
		Total depth from TOC	feet		
		TOC below/above ground	feet		
Damages/repairs needed:					

Water Level Data

Measuring point description:
☐ Mark/notch on TOC
☑ North rim of TOC
☐ Other:

Water level meter: ☑ Geotech/Keck 100' ☐ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	7/1/25	7/1/25	7/1/25	7/1/25	7/1/25	
Time	24-hour	1120	1530	1558	1612	1617	
Depth to Water	feet	12.26	12.26	12.26	12.26	12.26	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth: feet
Casing vol.: gallons

Well goes dry during purging: ☐ Yes ☑ No

= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408

Time	24-hour	1535	1540	1545	1550	1555	1600	1605	1610				Remarks
Purge vol.	gallons												
Purge rate	mL/min	200	200	200	200	200	200	200	200				
pH	su	6.76	6.27	6.28	6.44	6.47	6.60	6.65	6.64				
Temp.	ºC	21.50	20.66	20.80	20.30	20.47	20.64	20.45	20.52				
Conductivity	µS/cm	580	570	567	566	561	567	580	599				
DO	mg/L	3.53	2.34	2.43	2.86	2.89	2.80	2.91	2.96				
ORP	mV	160.5	172.9	220.5	183.2	170.4	157.6	156.3	155.7				
Turbidity	NTU	2.84	2.67	3.41	1.87	2.33	1.65	1.82	1.45				
Color/tint	--	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR				
Odor	--	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE				

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW115	7/1/25	1615	1	0	1 x 125 ML No pres

Sampler's Name (print):	Michael Clayton	Sampler Signature:	Transcribed by CMM

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW116	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	7/2/2025	Sampler Organization:	Olsson

Site Description

Weather: Clear/sunny		Air Temp. (ºF): 86		Wind: NE@2	
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:		Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:		Well diameter: inches 2; Total depth from TOC: feet; TOC below/above ground: feet	Well locked? ☑ Yes ☐ No
Damages/repairs needed:					

Water Level Data

Measuring point description: ☑ Mark/notch on TOC ☐ North rim of TOC ☐ Other:

Water level meter: ☑ Geotech/Keck 100' ☐ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	7/1/25	7/2/25	7/2/25	7/2/25	7/2/25	
Time	24-hour	1251	1040	1103	1118	1131	
Depth to Water	feet	12.69	12.72	12.72	12.72	12.72	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters: ☐ YSI ProPlus ☑ YSI MPS 556 ☐ Other: ☑ Hach 2100P Turbidimeter ☐ HF Scientific Turbidimeter ☐ Other:

Pump description: ☑ Peristaltic ☐ Bladder [☐ dedicated / ☐ portable] ☐ Submersible

Bailer description: ☐ Disposable polyethylene ☐ Disposable Teflon ☐ Disposable PVC

Purge depth: feet

Well goes dry during purging: ☐ Yes ☑ No

Casing vol.: gallons = [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408

Time	24-hour	1045	1050	1055	1100	1105	1110	1115					Remarks
Purge vol.	gallons												
Purge rate	mL/min	190	190	190	190	190	190	190					
pH	su	6.65	6.62	6.62	6.62	6.62	6.62	6.61					
Temp.	ºC	20.61	20.57	20.42	20.57	20.48	20.27	20.52					
Conductivity	µS/cm	872	872	873	872	874	876	873					
DO	mg/L	3.52	3.11	3.09	2.95	3.01	3.13	3.01					
ORP	mV	106.7	106.2	114.7	119.6	124.1	126.4	129.1					
Turbidity	NTU	6.13	3.97	2.11	2.18	2.45	2.09	2.46					
Color/tint	--	Clear	Clear	Clear	Clear	Clear	Clear	Clear					
Odor	--	None	None	None	None	None	None	None					

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW116	7/2/25	1125	2	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	Transcribed by CMM

SECOND HALF 2025 DETECTION MONITORING SAMPLING EVENT
OCTOBER 2025

olsson

Groundwater Level Data Sheet

Project Name:	Project Number:	Investigator:	
Plum Point Energy Station EPA Program	A24-01343 EPA Program	Michael Clayton Olsson	Page 1 of 1
Weather Conditions: 80 degrees, NE @ 9mph	**Measuring Device:** GeoTech 200'		

Well ID	Date	Time	Depth to Water (feet below MP)	Damages/Repairs		
MW-101	10/14/25	1217	21.42	☐ Damaged well pad/casing ☒ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☐ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-102	10/14/25	1229	24.04	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☐ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-103	10/14/25	1206	22.06	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☐ Unkept vegetation	☐ Lacks visibility ☒ Lacks access ☐ See GW sampling record
MW-104	10/14/25	1147	19.49	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☐ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-108	10/14/25	1048	28.58	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☐ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-110	10/14/25	1134	19.25	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☐ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-113	10/14/25	1043	26.59	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☐ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-115	10/14/25	1138	24.87	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☐ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-116	10/14/25	1223	23.87	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☐ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-117	10/14/25	1236	22.38	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☐ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-118	10/14/25	1200	20.42	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☐ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-119	10/14/25	1211	25.05	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☐ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-120	10/14/25	1153	29.01	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☐ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record
MW-121	10/14/25	1142	19.85	☐ Damaged well pad/casing ☐ Damaged bollards ☐ Damaged equipment	☐ Damaged MP ☐ Damaged lock ☐ Unkept vegetation	☐ Lacks visibility ☐ Lacks access ☐ See GW sampling record

Notes: MP=measuring point on the top of casing; GW=groundwater

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-101	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	10/21/25	Sampler Organization:	Olsson

Site Description

Weather: Clear		Air Temp. (ºF): 64		Wind: NW @ 10		
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:		Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:		Well diameter	inches	2
				Total depth from TOC	feet	
				TOC below/above ground	feet	
						Well locked? ☑ Yes ☐ No
Damages/repairs needed:						

Water Level Data

Measuring point description: ☑ Mark/notch on TOC ☐ North rim of TOC ☐ Other:		Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:					
		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	10/14/25	10/21/25	10/21/25	10/21/25	10/21/25	
Time	24-hour	1217	0940	0953	1011	1019	
Depth to Water	feet	21.42	21.71	21.71	21.71	21.72	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:			Pump description:	Bailer description:
☐ YSI ProPlus	☑ Hach 2100P Turbidimeter		☑ Peristaltic	☐ Disposable polyethylene
☑ YSI MPS 556	☐ HF Scientific Turbidimeter		☐ Bladder [☐ dedicated / ☐ portable]	☐ Disposable Teflon
☐ Other:	☐ Other:		☐ Submersible	☐ Disposable PVC

Purge depth	feet		Well goes dry during purging: ☐ Yes ☑ No										
Casing vol.	gallons		= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408										
Time	24-hour	0945	0950	0955	1000	1005	1010						Remarks
Purge vol.	gallons												
Purge rate	mL/min	260	260	260	260	260	260						
pH	su	6.64	6.60	6.67	6.69	6.71	6.74						
Temp.	ºC	18.37	18.32	18.33	18.33	18.37	18.38						
Conductivity	µS/cm	531	527	525	524	521	520						
DO	mg/L	2.23	1.20	1.06	0.97	0.93	0.93						
ORP	mV	42.9	43.0	33.4	25.0	29.1	26.6						
Turbidity	NTU	9.56	6.63	4.79	4.01	3.94	4.04						
Color/tint	--	Clear	Clear	Clear	Clear	Clear	Clear						
Odor	--	None	None	None	None	None	None						

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW101	10/21/25	1015	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by SBH

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-102	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	10/21/25	Sampler Organization:	Olsson

Site Description

Weather: Clear	Air Temp. (ºF): 72	Wind: WNW @ 10				
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:	Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:	Well diameter	inches	2	Well locked? ☑ Yes ☐ No
		Total depth from TOC	feet		
		TOC below/above ground	feet		
Damages/repairs needed:					

Water Level Data

Measuring point description:
☑ Mark/notch on TOC
☐ North rim of TOC
☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	10/14/25	10/21/25	10/21/25	10/21/25	12/21/25	
Time	24-hour	1209	1145	1158	1218	1249	
Depth to Water	feet	24.04	24.55	24.55	24.55	24.55	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth	feet		Well goes dry during purging: ☐ Yes ☑ No										
Casing vol.	gallons		= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408										
Time	24-hour	1150	1155	1200	1205	1210	1215						Remarks
Purge vol.	gallons												
Purge rate	mL/min	240	240	240	240	240	240						
pH	su	6.72	6.64	6.61	6.59	6.59	6.59						
Temp.	ºC	20.46	20.17	20.15	20.11	20.06	20.03						
Conductivity	µS/cm	921	922	920	918	917	913						
DO	mg/L	1.30	1.31	1.33	0.87	0.78	0.65						
ORP	mV	75.1	82.2	68.1	13.7	39.9	19.1						
Turbidity	NTU	5.57	4.65	4.46	4.19	3.88	3.77						
Color/tint	--	Clear	Clear	Clear	Clear	Clear	Clear						
Odor	--	None	None	None	None	None	NOne						

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW102	10/21/25	1220	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by SBH

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-103	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	10/20/25	Sampler Organization:	Olsson

Site Description

Weather: Clear	Air Temp. (ºF): 73	Wind: SW @ 15				
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:	Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:	Well diameter	inches	2	Well locked? ☑ Yes ☐ No
		Total depth from TOC	feet		
		TOC below/above ground	feet		
Damages/repairs needed:					

Water Level Data

Measuring point description:
☑ Mark/notch on TOC
☐ North rim of TOC
☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	10/14/25	10/20/25	10/20/25	10/20/25	10/20/25	
Time	24-hour	1206	1436	1447	1506	1522	
Depth to Water	feet	22.06	22.36	22.36	22.36	22.36	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth	feet		Well goes dry during purging: ☐ Yes ☑ No										
Casing vol.	gallons		= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408										
Time	24-hour	1440	1445	1450	1455	1500	1505						Remarks
Purge vol.	gallons												
Purge rate	mL/min	200	200	200	110	110	110						
pH	su	6.86	6.63	6.63	6.72	6.72	6.71						
Temp.	ºC	19.58	19.17	19.19	20.02	19.93	19.89						
Conductivity	µS/cm	538	536	534	535	534	535						
DO	mg/L	0.89	0.34	0.28	0.30	0.29	0.29						
ORP	mV	117.0	106.2	78.7	73.0	71.9	72.5						
Turbidity	NTU	14.3	24.5	23.0	11.5	7.49	6.81						
Color/tint	--	Clear	Clear	Clear	Clear	Clear	Clear						
Odor	--	None	None	None	None	None	None						

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW 103	10/20/2025	1510	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by SBH

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-104	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	10/20/25	Sampler Organization:	Olsson

Site Description

Weather: Clear		Air Temp. (ºF): 65		Wind: SW @ 11		
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:		Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:		Well diameter	inches	2
				Total depth from TOC	feet	
				TOC below/above ground	feet	
Damages/repairs needed:						

Well locked? ☑ Yes ☐ No

Water Level Data

Measuring point description: ☑ Mark/notch on TOC ☐ North rim of TOC ☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	10/14/25	10/20/25	10/20/25	10/20/25	10/20/25	
Time	24-hour	1147	1038	1047	1108	1123	
Depth to Water	feet	19.49	19.85	19.85	19.85	19.85	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters: ☐ YSI ProPlus ☑ YSI MPS 556 ☐ Other: ☑ Hach 2100P Turbidimeter ☐ HF Scientific Turbidimeter ☐ Other:

Pump description: ☑ Peristaltic ☐ Bladder [☐ dedicated / ☐ portable] ☐ Submersible

Bailer description: ☐ Disposable polyethylene ☐ Disposable Teflon ☐ Disposable PVC

Purge depth	feet		Well goes dry during purging: ☐ Yes ☑ No										
Casing vol.	gallons		= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408										
Time	24-hour	1045	1050	1055	1100	1105							Remarks
Purge vol.	gallons												
Purge rate	mL/min	140	140	140	140	140							
pH	su	7.15	6.67	6.62	6.64	6.65							
Temp.	ºC	20.49	19.03	18.83	18.76	18.72							
Conductivity	µS/cm	459	475	483	485	488							
DO	mg/L	6.35	3.54	1.06	0.66	0.46							
ORP	mV	56.4	62.2	64.6	68.1	71.2							
Turbidity	NTU	12.1	12.3	10.6	8.36	8.73							
Color/tint	--												
Odor	--												

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW 104	10/20/25	1110	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by SBH

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-108	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	10/15/25	Sampler Organization:	Olsson

Site Description

Weather: Clear	Air Temp. (ºF): 75	Wind: NE @ 8				
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:	Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:	Well diameter	inches	2	Well locked? ☑ Yes ☐ No
		Total depth from TOC	feet		
		TOC below/above ground	feet		
Damages/repairs needed:					

Water Level Data

Measuring point description:
☑ Mark/notch on TOC
☐ North rim of TOC
☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	10/14/25	10/15/25	10/15/25	10/15/25	10/15/25	
Time	24-hour	1048	1200	1213	1242	1258	
Depth to Water	feet	28.58	28.63	28.63	28.63	28.63	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth: feet
Well goes dry during purging: ☐ Yes ☑ No
Casing vol.: gallons
= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408

Time	24-hour	1205	1210	1215	1220	1225	1230	1235					Remarks
Purge vol.	gallons												
Purge rate	mL/min	190	190	190	190	190	190	190					
pH	su	7.06	6.85	6.84	6.84	6.84	6.86	6.86					
Temp.	ºC	23.07	22.43	22.31	22.01	22.13	22.28	22.39					
Conductivity	µS/cm	659	664	667	659	658	655	649					
DO	mg/L	4.56	1.22	0.98	0.87	0.79	0.87	0.62					
ORP	mV	58.5	67.5	68.0	81.3	87.7	78.1	70.3					
Turbidity	NTU	9.87	3.93	3.43	2.49	2.65	2.79	2.84					
Color/tint	--	Clear	Clear	Clear	Clear	Clear	Clear	Clear					
Odor	--	None	None	None	None	None	None	NOne					

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW 108	10/15/25	1240	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by SBH

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-110	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	10/15/25	Sampler Organization:	Olsson

Site Description

Weather: Clear	Air Temp. (ºF): 82	Wind: NE @ 9				
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:	Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:	Well diameter	inches	2	Well locked? ☑ Yes ☐ No
		Total depth from TOC	feet		
		TOC below/above ground	feet		
Damages/repairs needed:					

Water Level Data

Measuring point description:
☑ Mark/notch on TOC
☐ North rim of TOC
☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	10/14/25	10/15/25	10/15/25	10/15/25	10/15/25	
Time	24-hour	1134	1400	1412	1437	1445	
Depth to Water	feet	19.25	19.30	19.31	19.31	19.31	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth: feet
Well goes dry during purging: ☐ Yes ☑ No
Casing vol.: gallons = [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408

Time	24-hour	1405	1410	1415	1420	1425	1430	1435					Remarks
Purge vol.	gallons												
Purge rate	mL/min	180	180	130	130	130	130	130					
pH	su	7.05	6.98	6.98	7.09	7.16	7.13	7.05					
Temp.	ºC	19.95	19.96	20.23	20.44	20.46	20.54	20.50					
Conductivity	µS/cm	497	502	504	505	508	508	508					
DO	mg/L	0.60	0.29	0.40	0.25	0.21	0.21	0.21					
ORP	mV	34.9	6.0	-12.2	-12.8	-15.7	-14.6	-15.2					
Turbidity	NTU	87.8	66.5	22.3	16.0	11.8	9.22	8.87					
Color/tint	--	Cloudy	Cloudy	Clear	Clear	Clear	Clear	Clear					
Odor	--	None	None	None	None	None	None	None					

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW 110	10/15/25	1440	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by SBH

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-113	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	10/15/25	Sampler Organization:	Olsson

Site Description

Weather: Clear	Air Temp. (ºF): 71	Wind: NE @ 9				
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:	Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:	Well diameter	inches	2	Well locked? ☑ Yes ☐ No
		Total depth from TOC	feet		
		TOC below/above ground	feet		
Damages/repairs needed:					

Water Level Data

Measuring point description:
☑ Mark/notch on TOC
☐ North rim of TOC
☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	10/14/25	10/15/25	10/15/25	10/15/25	10/15/25	
Time	24-hour	1043	1104	1118	1136	1149	
Depth to Water	feet	26.59	26.65	26.65	26.65	26.65	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth	feet		Well goes dry during purging: ☐ Yes ☑ No										
Casing vol.	gallons		= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408										
Time	24-hour	1110	1115	1120	1125	1130	1135						Remarks
Purge vol.	gallons												
Purge rate	mL/min	140	140	140	140	140	140						
pH	su	6.87	6.74	6.68	6.65	6.65	6.65						
Temp.	ºC	19.64	19.62	19.64	19.66	19.62	19.58						
Conductivity	µS/cm	372	367	363	359	354	352						
DO	mg/L	5.30	4.93	4.86	4.64	4.77	4.50						
ORP	mV	45.2	61.4	67.8	59.6	61.0	60.6						
Turbidity	NTU	8.56	3.78	2.77	3.08	2.84	3.30						
Color/tint	--	Clear	Clear	Clear	Clear	Clear	Clear						
Odor	--	None	None	None	None	None	NOne						

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW 113	10/15/25	1140	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by SBH

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-115	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	10/15/25	Sampler Organization:	Olsson

Site Description

Weather: Sunny/Clear		Air Temp. (ºF): 71		Wind: NE @ 7		
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:		Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:		Well diameter	inches	2
				Total depth from TOC	feet	
				TOC below/above ground	feet	
Damages/repairs needed:						

Well locked? ☑ Yes ☐ No

Water Level Data

Measuring point description: ☑ Mark/notch on TOC ☐ North rim of TOC ☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	10/14/25	10/15/25	10/15/25	10/15/25	10/15/25	
Time	24-hour	1038	1012	1027	1046	1058	
Depth to Water	feet	24.87	24.94	24.94	24.94	24.94	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters: ☐ YSI ProPlus ☑ YSI MPS 556 ☐ Other: ☑ Hach 2100P Turbidimeter ☐ HF Scientific Turbidimeter ☐ Other:

Pump description: ☑ Peristaltic ☐ Bladder [☐ dedicated / ☐ portable] ☐ Submersible

Bailer description: ☐ Disposable polyethylene ☐ Disposable Teflon ☐ Disposable PVC

Purge depth	feet		Well goes dry during purging: ☐ Yes ☑ No										
Casing vol.	gallons		= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408										
Time	24-hour	1015	1020	1025	1030	1035	1040	1045					Remarks
Purge vol.	gallons												
Purge rate	mL/min	160	160	160	160	160	160	160					
pH	su	6.81	6.63	6.73	6.69	6.70	6.77	6.70					
Temp.	ºC	19.34	19.34	19.32	19.38	19.43	19.44	19.46					
Conductivity	µS/cm	571	568	565	567	569	570	571					
DO	mg/L	5.69	4.81	4.73	4.64	4.54	4.43	4.42					
ORP	mV	32.0	74.9	81.4	76.1	68.3	65.4	62.0					
Turbidity	NTU	11.2	5.02	3.66	3.40	3.76	3.59	3.39					
Color/tint	--												
Odor	--												

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW 115	10/15/25	1050	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by SBH

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-116	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	10/21/25	Sampler Organization:	Olsson

Site Description

Weather: Clear	Air Temp. (ºF): 69	Wind: WNW @ 9				
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:	Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:	Well diameter	inches	2	Well locked? ☑ Yes ☐ No
		Total depth from TOC	feet		
		TOC below/above ground	feet		
Damages/repairs needed:					

Water Level Data

Measuring point description:
☑ Mark/notch on TOC
☐ North rim of TOC
☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	10/14/25	10/21/25	10/21/25	10/21/25	10/21/25	
Time	24-hour	1223	1032	1052	1111	1127	
Depth to Water	feet	23.87	24.05	24.05	24.05	24.05	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth	feet		Well goes dry during purging: ☐ Yes ☑ No										
Casing vol.	gallons		= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408										
Time	24-hour	1040	1045	1050	1055	1100	1105	1110					Remarks
Purge vol.	gallons												
Purge rate	mL/min	290	290	200	200	200	200	200					
pH	su	6.60	6.45	6.44	6.48	6.50	6.51	6.51					
Temp.	ºC	20.47	20.54	20.63	20.62	20.72	20.67	20.73					
Conductivity	µS/cm	765	749	748	750	749	751	751					
DO	mg/L	2.75	2.12	2.05	2.06	2.05	2.03	1.99					
ORP	mV	15.3	32.2	30.6	31.0	32.6	31.7	33.0					
Turbidity	NTU	4.44	4.18	3.86	3.82	3.54	3.49	3.44					
Color/tint	--	Clear	Clear	Clear	Clear	Clear	Clear	Clear					
Odor	--	None	None	None	None	None	None	None					

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW 116	10/21/25	1115	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by SBH

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-117	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	10/21/25	Sampler Organization:	Olsson

Site Description

Weather: Clear	Air Temp. (ºF): 74	Wind: WNW @ 13				
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:	Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:	Well diameter	inches	2	Well locked? ☑ Yes	
		Total depth from TOC	feet		☐ No	
		TOC below/above ground	feet			
Damages/repairs needed:						

Water Level Data

Measuring point description:
☑ Mark/notch on TOC
☐ North rim of TOC
☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	10/14/25	10/21/25	10/21/25	10/21/25	10/21/25	
Time	24-hour	1236	1320	1337	1352	1406	
Depth to Water	feet	22.38	22.78	22.78	22.78	22.78	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth: feet
Well goes dry during purging: ☐ Yes ☑ No
Casing vol.: gallons
= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408

Time	24-hour	1325	1330	1335	1340	1345	1350						Remarks
Purge vol.	gallons												
Purge rate	mL/min	140	180	180	180	180	180						
pH	su	6.70	6.51	6.45	6.45	6.48	6.48						
Temp.	ºC	20.85	20.38	19.98	20.07	20.13	20.09						
Conductivity	µS/cm	520	505	503	503	504	505						
DO	mg/L	6.32	5.73	5.87	5.18	4.85	4.84						
ORP	mV	49.2	63.2	19.7	31.0	31.0	36.4						
Turbidity	NTU	4.65	4.14	3.51	3.62	3.41	3.29						
Color/tint	--	Clear	Clear	Clear	Clear	Clear	Clear						
Odor	--	None	None	None	None	None	None						

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW 117	10/21/25	1355	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by SBH

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-118	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	10/20/25	Sampler Organization:	Olsson

Site Description

Weather: Clear	Air Temp. (ºF): 71	Wind: S @ 16				
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:	Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:	Well diameter	inches	2	Well locked? ☑ Yes ☐ No
		Total depth from TOC	feet		
		TOC below/above ground	feet		
Damages/repairs needed:					

Water Level Data

Measuring point description:
☑ Mark/notch on TOC
☐ North rim of TOC
☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	10/14/25	10/20/25	10/20/25	10/20/25	10/20/25	
Time	24-hour	1200	1332	1347	1406	1427	
Depth to Water	feet	20.42	20.78	20.78	20.78	20.78	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth	feet		Well goes dry during purging: ☐ Yes ☑ No										
Casing vol.	gallons		= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408										
Time	24-hour	1335	1340	1345	1350	1355	1400	1405					Remarks
Purge vol.	gallons												
Purge rate	mL/min	160	160	160	120	120	120	120					
pH	su	6.30	6.30	6.33	6.34	6.38	6.40	6.40					
Temp.	ºC	19.41	19.40	19.42	19.68	19.90	19.97	19.94					
Conductivity	µS/cm	585	588	588	586	586	587	588					
DO	mg/L	4.48	4.44	4.47	3.98	3.87	3.89	3.91					
ORP	mV	133.9	128.0	127.3	130.4	127.7	128.7	127.9					
Turbidity	NTU	3.73	3.09	3.23	3.09	3.27	3.05	3.30					
Color/tint	--	Clear	Clear	Clear	Clear	Clear	Clear	Clear					
Odor	--	None	None	None	None	None	None	None					

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW 118	10/20/25	1410	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by SBH

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-119	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	10/20/25	Sampler Organization:	Olsson

Site Description

Weather: Clear	Air Temp. (ºF): 75	Wind: S @ 14				
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:	Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:	Well diameter	inches	2	Well locked? ☑ Yes ☐ No	
		Total depth from TOC	feet			
		TOC below/above ground	feet			
Damages/repairs needed:						

Water Level Data

Measuring point description:
☑ Mark/notch on TOC
☐ North rim of TOC
☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	10/14/25	10/20/25	10/20/25	10/20/25	10/20/25	
Time	24-hour	1211	1530	1547	1607	1616	
Depth to Water	feet	25.05	25.33	25.33	25.33	25.33	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth	feet		Well goes dry during purging: ☐ Yes ☑ No										
Casing vol.	gallons		= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408										
Time	24-hour	1535	1540	1545	1550	1555	1600	1605					Remarks
Purge vol.	gallons												
Purge rate	mL/min	230	230	230	230	230	230	230					
pH	su	6.96	6.93	6.79	6.75	6.77	6.76	6.77					
Temp.	ºC	20.47	20.32	20.37	20.24	20.32	20.30	20.27					
Conductivity	µS/cm	526	524	523	521	520	518	517					
DO	mg/L	4.08	2.45	1.91	1.80	1.61	1.50	1.49					
ORP	mV	136.7	122.4	109.1	55.0	74.0	59.5	71.8					
Turbidity	NTU	5.29	4.22	3.91	3.78	3.31	3.26	3.30					
Color/tint	--												
Odor	--												

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW 119	10/20/25	1610	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by SBH

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-120	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	10/20/25	Sampler Organization:	Olsson

Site Description

Weather: Clear	Air Temp. (ºF): 68	Wind: S @ 15				
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:	Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:	Well diameter	inches	2	Well locked? ☑ Yes ☐ No
		Total depth from TOC	feet		
		TOC below/above ground	feet		
Damages/repairs needed:					

Water Level Data

Measuring point description:
☑ Mark/notch on TOC
☐ North rim of TOC
☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	10/14/25	10/20/25	10/20/25	10/20/25	10/20/25	
Time	24-hour	1153	1130	1142	1208	1227	
Depth to Water	feet	29.01	29.31	29.31	29.31	29.31	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth	feet		Well goes dry during purging: ☐ Yes ☑ No										
Casing vol.	gallons		= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408										
Time	24-hour	1135	1140	1145	1150	1155	1200						Remarks
Purge vol.	gallons												
Purge rate	mL/min	200	200	200	200	200	200						
pH	su	6.65	6.56	6.52	6.55	6.56	6.56						
Temp.	ºC	18.42	18.38	18.41	18.44	18.45	18.49						
Conductivity	µS/cm	371	369	366	364	362	360						
DO	mg/L	3.36	3.14	3.12	3.13	2.95	3.23						
ORP	mV	90.3	97.3	94.9	98.7	96.6	98.9						
Turbidity	NTU	5.03	4.07	3.82	2.73	3.53	3.39						
Color/tint	--	Clear	Clear	Clear	Clear	Clear	Clear						
Odor	--	None	None	None	None	None	None						

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW 120	10/20/25	1205	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by SBH

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-121	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	10/20/25	Sampler Organization:	Olsson

Site Description

Weather: Clear	Air Temp. (ºF): 69	Wind: S @ 15				
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:	Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:	Well diameter	inches	2	Well locked? ☑ Yes ☐ No
		Total depth from TOC	feet		
		TOC below/above ground	feet		
Damages/repairs needed:					

Water Level Data

Measuring point description:
☑ Mark/notch on TOC
☐ North rim of TOC
☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	10/14/25	10/20/25	10/20/25	10/20/25	10/20/25	
Time	24-hour	1142	1230	1242	1301	1316	
Depth to Water	feet	19.85	20.22	20.22	20.22	20.22	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth	feet		Well goes dry during purging: ☐ Yes ☑ No										
Casing vol.	gallons		= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408										
Time	24-hour	1235	1240	1245	1250	1255	1300						Remarks
Purge vol.	gallons												
Purge rate	mL/min	280	280	280	280	280	280						
pH	su	6.31	6.26	6.28	6.29	6.29	6.29						
Temp.	ºC	21.14	21.08	21.03	20.97	20.96	20.95						
Conductivity	µS/cm	362	386	395	395	397	398						
DO	mg/L	3.09	2.99	2.65	2.56	2.47	2.54						
ORP	mV	134.4	137.0	125.6	122.3	126.8	125.7						
Turbidity	NTU	3.22	3.16	3.55	2.86	3.07	3.14						
Color/tint	--	Clear	Clear	Clear	Clear	Clear	Clear						
Odor	--	None	None	None	None	None	None						

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW 121	10/20/25	1305	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by SBH

SECOND HALF 2025 VERIFICATION SAMPLING EVENT
DECEMBER 2025

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-117	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	12/16/25	Sampler Organization:	Olsson

Site Description

Weather: P/C	Air Temp. (ºF): 55	Wind: S @ 13				
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:	Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:	Well diameter	inches	2	Well locked? ☑ Yes ☐ No	
		Total depth from TOC	feet			
		TOC below/above ground	feet			
Damages/repairs needed:						

Water Level Data

Measuring point description:
☑ Mark/notch on TOC
☐ North rim of TOC
☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	12/16/25	12/16/25	12/16/25	12/16/25	12/16/25	
Time	24-hour	1046	1510	1527	1540	1550	
Depth to Water	feet	25.32	25.32	25.32	25.32	25.32	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth	feet		Well goes dry during purging: ☐ Yes ☑ No
Casing vol.	gallons		= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408

Time	24-hour	1515	1520	1525	1530	1535	1540						Remarks
Purge vol.	gallons												
Purge rate	mL/min	140	140	140	140	140	140						
pH	su	6.53	6.53	6.49	6.46	6.47	6.47						
Temp.	ºC	16.97	16.82	16.63	16.51	16.36	16.26						
Conductivity	µS/cm	506	507	508	508	508	509						
DO	mg/L	4.61	3.98	3.78	3.83	3.73	3.98						
ORP	mV	168.7	176.7	177.2	171.8	168.3	163.7						
Turbidity	NTU	1.30	2.23	1.81	1.22	1.26	1.36						
Color/tint	--	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR						
Odor	--	NONE	NONE	NONE	NONE	NONE	NONE						

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW-117	12/16/25	1545	2	0	
EPA-EB-2	12/16/25	1600	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by CMM

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-118	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	12/16/25	Sampler Organization:	Olsson

Site Description

Weather: P/C	Air Temp. (ºF): 49	Wind: S @ 14			
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:	Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:	Well diameter	inches	2	Well locked? ☑ Yes ☐ No
		Total depth from TOC	feet		
		TOC below/above ground	feet		
Damages/repairs needed:					

Water Level Data

Measuring point description:
☑ Mark/notch on TOC
☐ North rim of TOC
☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	12/16/25	12/16/25	12/16/25	12/16/25	12/16/25	
Time	24-hour	0937	1335	1348	1407	1450	
Depth to Water	feet	23.25	23.23	23.23	23.23	23.23	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth	feet		Well goes dry during purging: ☐ Yes ☑ No
Casing vol.	gallons		= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408

Time	24-hour	1340	1345	1350	1355	1400	1405						Remarks
Purge vol.	gallons												
Purge rate	mL/min	240	240	200	200	200	200						
pH	su	6.23	6.25	6.25	6.25	6.21	6.23						
Temp.	ºC	17.19	17.27	17.20	17.06	16.80	16.80						
Conductivity	µS/cm	513	523	527	527	527	527						
DO	mg/L	5.04	4.88	4.49	4.28	3.94	3.94						
ORP	mV	186.5	186.0	176.9	177.0	175.9	181.1						
Turbidity	NTU	2.49	1.64	1.50	1.47	1.48	1.27						
Color/tint	--	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR						
Odor	--	NONE	NONE	NONE	NONE	NONE	NONE						

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW-118	12/16/25	1410	3	0	
MW-118 DUP	12/16/25	1415	3	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by CMM

Groundwater Sampling Record
PPES EPA Program

Facility:	Plum Point Energy Station	Site ID:	MW-121	Sampler:	Michael Clayton
Project Number:	A24-01343	Date:	12/16/25	Sampler Organization:	Olsson

Site Description

Weather: CLOUDY		Air Temp. (ºF):	Wind:		
Site type: ☑ Monitoring Well ☐ Extraction Well ☐ Production Well ☐ Borehole ☐ Dewatering Well ☐ Spring ☐ Other:		Well casing material: ☑ PVC ☐ Steel ☐ Iron ☐ Other:	Well diameter	inches	2
			Total depth from TOC	feet	
			TOC below/above ground	feet	
Well locked? ☑ Yes ☐ No					
Damages/repairs needed:					

Water Level Data

Measuring point description:
☑ Mark/notch on TOC
☐ North rim of TOC
☐ Other:

Water level meter: ☐ Geotech/Keck 100' ☑ Geotech/Keck 200' ☐ Heron Dipper–T ☐ Solinst 101 ☐ Other:

		Pre-purge initial	Pre-purge confirmation	During purging	Purge end	After sampling	Remarks
Date	mm/dd/yy	12/16/25	12/16/25	12/16/25	12/16/25	12/16/25	
Time	24-hour	0924	1215	1237	1306	1324	
Depth to Water	feet	22.85	22.63	22.62	22.62	22.62	
Product/Thickness	LNAPL/DNAPL feet						

Field Data

Field data meters:
☐ YSI ProPlus ☑ Hach 2100P Turbidimeter
☑ YSI MPS 556 ☐ HF Scientific Turbidimeter
☐ Other: ☐ Other:

Pump description:
☑ Peristaltic
☐ Bladder [☐ dedicated / ☐ portable]
☐ Submersible

Bailer description:
☐ Disposable polyethylene
☐ Disposable Teflon
☐ Disposable PVC

Purge depth	feet		Well goes dry during purging: ☐ Yes ☑ No										
Casing vol.	gallons		= [total depth (feet) – depth to water (feet)] × [internal diameter of well (inches)]^2 × 0.0408										
Time	24-hour	1225	1230	1235	1240	1245	1250	1255	1305				Remarks
Purge vol.	gallons												
Purge rate	mL/min	180	180	180	300	300	300	300	300				
pH	su	5.99	6.03	6.07	6.09	6.14	6.14	6.16	6.14				
Temp.	ºC	17.35	17.76	17.79	17.97	18.20	18.21	18.18	18.24				
Conductivity	µS/cm	238	249	262	270	279	284	286	286				
DO	mg/L	4.80	4.39	3.61	3.99	3.58	3.34	3.21	3.18				
ORP	mV	183.6	185.4	180.2	189.1	185.4	184.1	178.3	178.5				
Turbidity	NTU	3.62	2.81	1.76	2.07	1.56	1.42	1.26	1.26				
Color/tint	--	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR				
Odor	--	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE				

Sample Data

Sample ID	Date	Time	# Containers	# Filtered	Remarks
MW-121	12/16/25	1310	2	0	

Sampler's Name (print):	Michael Clayton	Sampler Signature:	transcribed by CMM

APPENDIX B
LABORATORY REPORTS

FIRST HALF 2025 DETECTION MONITORING SAMPLING EVENT
APRIL 2025

ANALYTICAL REPORT

April 22, 2025

Plum Point Services Co., LLC

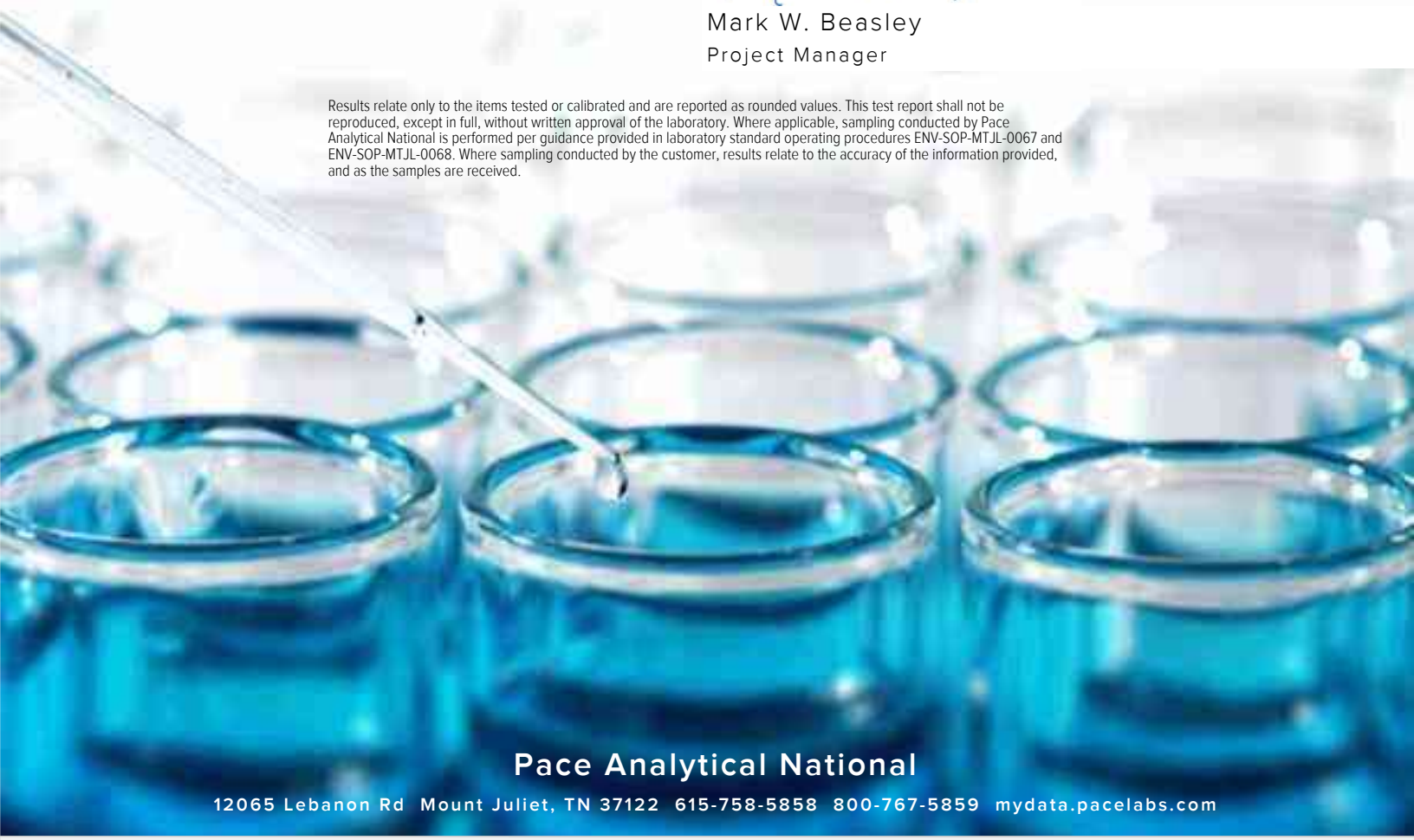
Sample Delivery Group:	L1847497
Samples Received:	04/12/2025
Project Number:	A24-01343
Description:	Plum Point Energy Station

Report To: Melissa Vaught
2739 SCR 623
Osceola, AR 72370

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MW-104 L1847497-01 GW

Collected by: Michael Clayton | Collected date/time: 04/11/25 13:30 | Received date/time: 04/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2490298	1	04/14/25 15:51	04/14/25 18:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2490028	1	04/18/25 21:17	04/18/25 21:17	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2493985	1	04/19/25 20:45	04/21/25 18:40	MAP	Mt. Juliet, TN

MW-108 L1847497-02 GW

Collected by: Michael Clayton | Collected date/time: 04/10/25 14:00 | Received date/time: 04/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2490300	1	04/15/25 07:15	04/15/25 14:30	MDD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2490028	1	04/18/25 21:36	04/18/25 21:36	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2493985	1	04/19/25 20:45	04/21/25 19:23	MAP	Mt. Juliet, TN

MW-110 L1847497-03 GW

Collected by: Michael Clayton | Collected date/time: 04/11/25 12:05 | Received date/time: 04/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2490300	1	04/15/25 07:15	04/15/25 14:30	MDD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2490028	1	04/18/25 21:54	04/18/25 21:54	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2493985	1	04/19/25 20:45	04/21/25 19:24	MAP	Mt. Juliet, TN

MW-113 L1847497-04 GW

Collected by: Michael Clayton | Collected date/time: 04/10/25 12:44 | Received date/time: 04/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2490300	1	04/15/25 07:15	04/15/25 14:30	MDD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2490028	1	04/18/25 22:12	04/18/25 22:12	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2493985	1	04/19/25 20:45	04/21/25 19:26	MAP	Mt. Juliet, TN

MW-115 L1847497-05 GW

Collected by: Michael Clayton | Collected date/time: 04/10/25 11:40 | Received date/time: 04/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2490305	1	04/15/25 07:12	04/15/25 11:32	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2490028	1	04/18/25 22:30	04/18/25 22:30	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2493985	1	04/19/25 20:45	04/21/25 19:28	MAP	Mt. Juliet, TN

MW-120 L1847497-06 GW

Collected by: Michael Clayton | Collected date/time: 04/11/25 14:35 | Received date/time: 04/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2490305	1	04/15/25 07:12	04/15/25 11:32	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2490032	1	04/19/25 13:55	04/19/25 13:55	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2493985	1	04/19/25 20:45	04/21/25 19:30	MAP	Mt. Juliet, TN

SAMPLE SUMMARY

MW-113 DUP L1847497-07 GW

Collected by	Collected date/time	Received date/time
Michael Clayton	04/10/25 12:45	04/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2490305	1	04/15/25 07:12	04/15/25 11:32	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2490032	1	04/19/25 14:47	04/19/25 14:47	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2493985	1	04/19/25 20:45	04/21/25 19:32	MAP	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	326000		10000	1	04/14/2025 18:21	WG2490298

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	1990		547	1000	1	04/18/2025 21:17	WG2490028
Fluoride	255		76.1	150	1	04/18/2025 21:17	WG2490028
Sulfate	8520		637	5000	1	04/18/2025 21:17	WG2490028

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	59.3	J	23.2	200	1	04/21/2025 18:40	WG2493985
Calcium	92000	O1	153	1000	1	04/21/2025 18:40	WG2493985

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	463000		10000	1	04/15/2025 14:30	WG2490300

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	2000		547	1000	1	04/18/2025 21:36	WG2490028
Fluoride	176		76.1	150	1	04/18/2025 21:36	WG2490028
Sulfate	35200		637	5000	1	04/18/2025 21:36	WG2490028

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	114	J	23.2	200	1	04/21/2025 19:23	WG2493985
Calcium	145000		153	1000	1	04/21/2025 19:23	WG2493985

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	326000		10000	1	04/15/2025 14:30	WG2490300

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	1060		547	1000	1	04/18/2025 21:54	WG2490028
Fluoride	185		76.1	150	1	04/18/2025 21:54	WG2490028
Sulfate	7250		637	5000	1	04/18/2025 21:54	WG2490028

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	56.5	J	23.2	200	1	04/21/2025 19:24	WG2493985
Calcium	82900		153	1000	1	04/21/2025 19:24	WG2493985

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	279000		10000	1	04/15/2025 14:30	WG2490300

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	907	J	547	1000	1	04/18/2025 22:12	WG2490028
Fluoride	95.7	J	76.1	150	1	04/18/2025 22:12	WG2490028
Sulfate	6240		637	5000	1	04/18/2025 22:12	WG2490028

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	71.6	J	23.2	200	1	04/21/2025 19:26	WG2493985
Calcium	75800		153	1000	1	04/21/2025 19:26	WG2493985

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	407000		10000	1	04/15/2025 11:32	WG2490305

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	979	J	547	1000	1	04/18/2025 22:30	WG2490028
Fluoride	210		76.1	150	1	04/18/2025 22:30	WG2490028
Sulfate	11300		637	5000	1	04/18/2025 22:30	WG2490028

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	56.1	J	23.2	200	1	04/21/2025 19:28	WG2493985
Calcium	120000		153	1000	1	04/21/2025 19:28	WG2493985

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	291000		10000	1	04/15/2025 11:32	WG2490305

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	2290	P1	547	1000	1	04/19/2025 13:55	WG2490032
Fluoride	320	P1	76.1	150	1	04/19/2025 13:55	WG2490032
Sulfate	15300		637	5000	1	04/19/2025 13:55	WG2490032

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	53.9	J	23.2	200	1	04/21/2025 19:30	WG2493985
Calcium	77200		153	1000	1	04/21/2025 19:30	WG2493985

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	285000		10000	1	04/15/2025 11:32	WG2490305

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	862	J	547	1000	1	04/19/2025 14:47	WG2490032
Fluoride	U		76.1	150	1	04/19/2025 14:47	WG2490032
Sulfate	6310		637	5000	1	04/19/2025 14:47	WG2490032

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	72.6	J	23.2	200	1	04/21/2025 19:32	WG2493985
Calcium	76500		153	1000	1	04/21/2025 19:32	WG2493985

Method Blank (MB)

(MB) R4199935-1 04/14/25 18:21

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Dissolved Solids	U		10000	10000

L1847497-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1847497-01 04/14/25 18:21 • (DUP) R4199935-3 04/14/25 18:21

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Dissolved Solids	326000	332000	1	1.82		10

Laboratory Control Sample (LCS)

(LCS) R4199935-2 04/14/25 18:21

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Dissolved Solids	8800000	8620000	98.0	90.0-110	

Method Blank (MB)

(MB) R4202105-1 04/15/25 14:30

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Dissolved Solids	U		10000	10000

L1847496-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1847496-01 04/15/25 14:30 • (DUP) R4202105-3 04/15/25 14:30

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	319000	322000	1	0.936		10

L1847497-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1847497-04 04/15/25 14:30 • (DUP) R4202105-4 04/15/25 14:30

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	279000	276000	1	1.08		10

Laboratory Control Sample (LCS)

(LCS) R4202105-2 04/15/25 14:30

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800000	8590000	97.6	90.0-110	

Method Blank (MB)

(MB) R4201174-1 04/15/25 11:32

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Dissolved Solids	U		10000	10000

L1847231-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1847231-01 04/15/25 11:32 • (DUP) R4201174-3 04/15/25 11:32

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1270000	1270000	1	0.000		10

L1847563-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1847563-07 04/15/25 11:32 • (DUP) R4201174-4 04/15/25 11:32

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	ND	ND	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R4201174-2 04/15/25 11:32

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800000	8580000	97.5	90.0-110	

Method Blank (MB)

(MB) R4202012-1 04/18/25 14:07

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		547	1000
Fluoride	U		76.1	150
Sulfate	U		637	5000

L1847496-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1847496-02 04/18/25 17:02 • (DUP) R4202012-3 04/18/25 17:20

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	837	832	1	0.539	J	15
Fluoride	129	117	1	9.20	J	15
Sulfate	4000	3860	1	3.53	J	15

L1847496-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1847496-03 04/18/25 18:15 • (DUP) R4202012-6 04/18/25 18:33

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	2030	2070	1	1.92		15
Fluoride	167	168	1	0.119		15
Sulfate	35700	35500	1	0.714		15

Laboratory Control Sample (LCS)

(LCS) R4202012-2 04/18/25 14:27

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	37900	94.7	80.0-120	
Fluoride	8000	7890	98.7	80.0-120	
Sulfate	40000	38600	96.4	80.0-120	

L1847496-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1847496-02 04/18/25 17:02 • (MS) R4202012-4 04/18/25 17:38 • (MSD) R4202012-5 04/18/25 17:56

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	837	39300	39000	96.0	95.5	1	80.0-120			0.529	15
Fluoride	8000	129	8090	8050	99.6	99.0	1	80.0-120			0.581	15
Sulfate	40000	4000	42700	42200	96.7	95.4	1	80.0-120			1.16	15

L1847496-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1847496-03 04/18/25 18:15 • (MS) R4202012-7 04/18/25 18:51

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	2030	40800	97.0	1	80.0-120	
Fluoride	8000	167	8200	100	1	80.0-120	
Sulfate	40000	35700	67800	80.1	1	80.0-120	

Method Blank (MB)

(MB) R4202713-1 04/19/25 13:29

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		547	1000
Fluoride	U		76.1	150
Sulfate	U		637	5000

L1847497-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1847497-06 04/19/25 13:55 • (DUP) R4202713-3 04/19/25 14:08

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	2290	1350	1	51.3	P1	15
Fluoride	320	135	1	81.3	J P1	15
Sulfate	15300	14100	1	8.35		15

L1847515-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1847515-02 04/19/25 16:17 • (DUP) R4202713-6 04/19/25 16:30

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	58000	58000	1	0.0105		15
Fluoride	487	372	1	26.9	P1	15
Sulfate	55400	55400	1	0.139		15

Laboratory Control Sample (LCS)

(LCS) R4202713-2 04/19/25 13:42

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	38400	95.9	80.0-120	
Fluoride	8000	7700	96.3	80.0-120	
Sulfate	40000	37100	92.7	80.0-120	

L1847497-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1847497-06 04/19/25 13:55 • (MS) R4202713-4 04/19/25 14:21 • (MSD) R4202713-5 04/19/25 14:34

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	2290	40200	40000	94.9	94.2	1	80.0-120			0.637	15
Fluoride	8000	320	8120	8080	97.6	97.0	1	80.0-120			0.586	15
Sulfate	40000	15300	51100	50700	89.5	88.3	1	80.0-120			0.935	15

L1847515-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1847515-02 04/19/25 16:17 • (MS) R4202713-7 04/19/25 16:43

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	58000	85300	68.3	1	80.0-120	J6
Fluoride	8000	487	8700	103	1	80.0-120	
Sulfate	40000	55400	84800	73.7	1	80.0-120	J6

Method Blank (MB)

(MB) R4202998-1 04/21/25 18:36

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Boron	U		23.3	200
Calcium	U		153	1000

L1844517-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1844517-01 04/21/25 18:47 • (DUP) R4202998-6 04/21/25 18:49

Analyte	Original Result	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Boron		156	1	1.63	J	20
Calcium	60000	61000	1	1.53		20

L1844517-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1844517-02 04/21/25 18:50 • (DUP) R4202998-7 04/21/25 18:52

Analyte	Original Result	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Boron		213	1	0.0663		20
Calcium	108000	108000	1	0.654		20

L1844517-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1844517-03 04/21/25 18:58 • (DUP) R4202998-8 04/21/25 18:59

Analyte	Original Result	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Boron		23.8	1	1.10	J	20
Calcium	62700	62300	1	0.703		20

Laboratory Control Sample (LCS)

(LCS) R4202998-2 04/21/25 18:38

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1000	1000	100	80.0-120	
Calcium	10000	10200	102	80.0-120	

L1847497-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1847497-01 04/21/25 18:40 • (MS) R4202998-4 04/21/25 18:43 • (MSD) R4202998-5 04/21/25 18:45

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1000	59.3	1060	1050	100	99.1	1	75.0-125			0.816	20
Calcium	10000	92000	102000	101000	105	90.2	1	75.0-125			1.46	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Plum Point Services Co., LLC

2739 SCR 623
Osceola, AR 72370

Billing Information:
Accounts Payable
P.O. Box 567
Osceola, AR 72370

Pres Chk

Report to:
Melissa Vaught 501-920-9642

Email To:
mvaught@olsson.com;mclayton@olsson.com;a

Project Description:
Plum Point Energy Station

City/State Collected: OSCEOLA, AR

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
A24-01343

Lab Project #
NAESOAR-PLUMPOINT

Collected by (print):
Michael Clayton

Site/Facility ID #

P.O. #
2025-00048

Collected by (signature):

Immediately Packed on Ice N ___ Y V

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 184499
Y195

Acctnum: **NAESOAR**
Template: **T175308**
Prelogin: **P1139782**
PM: **134 - Mark W. Beasley**
PB: 03/26/25 CG
Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cl, F, SO4 125mlHDPE-NoPres	TDS 250mlHDPE-NoPres	Total B, Ca 250mlHDPE-HNO3	Remarks	Sample # (lab only)
~~MW-101~~		GW				3	X	X	X		
~~MW-102~~		GW				3	X	X	X		
~~MW-103~~		GW				3	X	X	X		
MW-104	GRAB	GW		4/11/25	1330	3	X	X	X		-01
MW-108		GW		4/10/25	1400	3	X	X	X		-02
MW-110		GW		4/11/25	1205	3	X	X	X		-03
MW-113		GW		4/10/25	1244	3	X	X	X		-04
MW-115		GW		4/10/25	1140	3	X	X	X		-05
MW-116		GW				3	X	X	X		
MW-117		GW				3	X	X	X		

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier _____

Tracking # 4495 5928 6025

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Michael Clayton	4/11/25	1730			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: TUN 0.9+0.4=1.2 21	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/12/25 Time: 0900	Hold: Condition NCF / OK

Company Name/Address:
Plum Point Services Co., LLC
2739 SCR 623
Osceola, AR 72370

Billing Information:
Accounts Payable
P.O. Box 567
Osceola, AR 72370

Pres Chk

Report to:
Melissa Vaught 501-920-9642

Email To:
mvaught@olsson.com;mclayton@olsson.com;a

Project Description:
Plum Point Energy Station

City/State Collected: Osceola Ar

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
A24-01343

Lab Project #
NAESOAR-PLUMPOINT

Collected by (print):
Michael Clayton

Site/Facility ID #

P.O. #
2025-00048

Collected by (signature):
Immediately
Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cl, F, SO4 125mlHDPE-NoPres	TDS 250mlHDPE-NoPres	Total B, Ca 250mlHDPE-HNO3	Remarks	Sample # (lab only)
MW-118		GW				3	X	X	X		
MW-119		GW				3	X	X	X		
MW-120		GW		4/11/25	1435	3	X	X	X		-06
MW-121		GW				3	X	X	X		
MW-113 DUP		GW		4/10/25	1245	3	X	X	X		-07
EPA EB-1		GW				3	X	X	X		
		GW				3	X	X	X		
		GW				3	X	X	X		
		GW				3	X	X	X		

Chain of Custody Pg

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MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 184799

Table #

Acctnum: **NAESOAR**
Template: **T175308**
Prelogin: **P1139782**
PM: **134 - Mark W. Beasley**
PB: 03/26/25CG
Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier _____

Tracking # 4493 5928 6025

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	4/11/25	1730		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: TUA 9.0+10.4=1.2 21
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/12/25 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition NCF / OK

ANALYTICAL REPORT

April 23, 2025

Plum Point Services Co., LLC

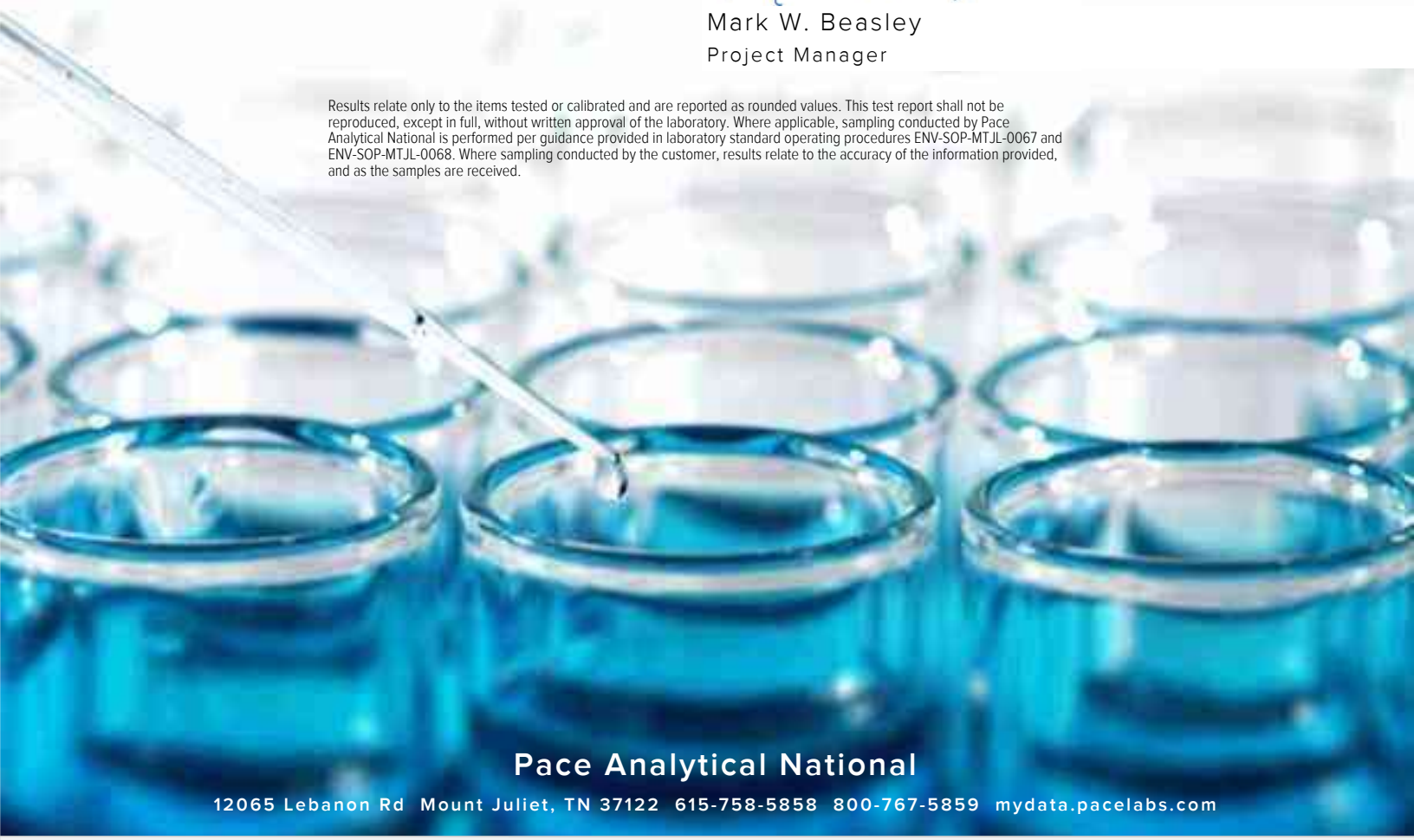
Sample Delivery Group:	L1848443
Samples Received:	04/16/2025
Project Number:	A24-01343
Description:	Plum Point Energy Station

Report To: Melissa Vaught
2739 SCR 623
Osceola, AR 72370

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MW-101 L1848443-01 GW

Collected by: Michael Clayton | Collected date/time: 04/14/25 13:40 | Received date/time: 04/16/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2492616	1	04/16/25 22:27	04/17/25 11:09	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	1	04/21/25 18:29	04/21/25 18:29	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2495432	1	04/22/25 21:21	04/23/25 13:38	RLS	Mt. Juliet, TN

MW-102 L1848443-02 GW

Collected by: Michael Clayton | Collected date/time: 04/14/25 14:35 | Received date/time: 04/16/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2492616	1	04/16/25 22:27	04/17/25 11:09	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	1	04/21/25 19:09	04/21/25 19:09	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	10	04/21/25 19:23	04/21/25 19:23	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2495432	1	04/22/25 21:21	04/23/25 13:39	RLS	Mt. Juliet, TN

MW-103 L1848443-03 GW

Collected by: Michael Clayton | Collected date/time: 04/14/25 11:50 | Received date/time: 04/16/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2492616	1	04/16/25 22:27	04/17/25 11:09	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	1	04/21/25 19:36	04/21/25 19:36	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2495432	1	04/22/25 21:21	04/23/25 13:41	RLS	Mt. Juliet, TN

MW-116 L1848443-04 GW

Collected by: Michael Clayton | Collected date/time: 04/14/25 16:50 | Received date/time: 04/16/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2492616	1	04/16/25 22:27	04/17/25 11:09	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	1	04/21/25 19:50	04/21/25 19:50	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2495432	1	04/22/25 21:21	04/23/25 13:43	RLS	Mt. Juliet, TN

MW-117 L1848443-05 GW

Collected by: Michael Clayton | Collected date/time: 04/15/25 12:30 | Received date/time: 04/16/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2492616	1	04/16/25 22:27	04/17/25 11:09	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	1	04/21/25 20:17	04/21/25 20:17	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2495437	1	04/22/25 20:00	04/23/25 10:46	MAP	Mt. Juliet, TN

MW-118 L1848443-06 GW

Collected by: Michael Clayton | Collected date/time: 04/15/25 11:30 | Received date/time: 04/16/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2492616	1	04/16/25 22:27	04/17/25 11:09	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	1	04/21/25 20:57	04/21/25 20:57	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	1	04/22/25 13:43	04/22/25 13:43	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2495437	1	04/22/25 20:00	04/23/25 10:53	MAP	Mt. Juliet, TN

MW-119 L1848443-07 GW

Collected by: Michael Clayton | Collected date/time: 04/14/25 12:45 | Received date/time: 04/16/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2492616	1	04/16/25 22:27	04/17/25 11:09	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	1	04/21/25 21:11	04/21/25 21:11	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	1	04/22/25 14:00	04/22/25 14:00	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2495437	1	04/22/25 20:00	04/23/25 10:55	MAP	Mt. Juliet, TN

MW-121 L1848443-08 GW

Collected by: Michael Clayton | Collected date/time: 04/14/25 15:40 | Received date/time: 04/16/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2492616	1	04/16/25 22:27	04/17/25 11:09	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	1	04/21/25 21:24	04/21/25 21:24	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	1	04/22/25 14:21	04/22/25 14:21	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2495437	1	04/22/25 20:00	04/23/25 10:56	MAP	Mt. Juliet, TN

EPA EB-1 L1848443-09 GW

Collected by: Michael Clayton | Collected date/time: 04/14/25 13:05 | Received date/time: 04/16/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2492616	1	04/16/25 22:27	04/17/25 11:09	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	1	04/21/25 21:38	04/21/25 21:38	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	1	04/22/25 14:37	04/22/25 14:37	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2495437	1	04/22/25 20:00	04/23/25 10:59	MAP	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	363000		10000	1	04/17/2025 11:09	WG2492616

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	1350		547	1000	1	04/21/2025 18:29	WG2492341
Fluoride	220	P1	76.1	150	1	04/21/2025 18:29	WG2492341
Sulfate	3750	J	637	5000	1	04/21/2025 18:29	WG2492341

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	62.2	J	23.2	200	1	04/23/2025 13:38	WG2495432
Calcium	103000		153	1000	1	04/23/2025 13:38	WG2495432

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	644000		10000	1	04/17/2025 11:09	WG2492616

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	4630		547	1000	1	04/21/2025 19:09	WG2492341
Fluoride	142	J	76.1	150	1	04/21/2025 19:09	WG2492341
Sulfate	172000		6370	50000	10	04/21/2025 19:23	WG2492341

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	208		23.2	200	1	04/23/2025 13:39	WG2495432
Calcium	166000		153	1000	1	04/23/2025 13:39	WG2495432

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	383000		10000	1	04/17/2025 11:09	WG2492616

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	2190		547	1000	1	04/21/2025 19:36	WG2492341
Fluoride	185		76.1	150	1	04/21/2025 19:36	WG2492341
Sulfate	39700		637	5000	1	04/21/2025 19:36	WG2492341

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	86.6	J	23.2	200	1	04/23/2025 13:41	WG2495432
Calcium	102000		153	1000	1	04/23/2025 13:41	WG2495432

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	576000		10000	1	04/17/2025 11:09	WG2492616

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	4720		547	1000	1	04/21/2025 19:50	WG2492341
Fluoride	204		76.1	150	1	04/21/2025 19:50	WG2492341
Sulfate	81800		637	5000	1	04/21/2025 19:50	WG2492341

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	105	J	23.2	200	1	04/23/2025 13:43	WG2495432
Calcium	163000		153	1000	1	04/23/2025 13:43	WG2495432

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	381000		10000	1	04/17/2025 11:09	WG2492616

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	1250		547	1000	1	04/21/2025 20:17	WG2492341
Fluoride	140	J	76.1	150	1	04/21/2025 20:17	WG2492341
Sulfate	23800		637	5000	1	04/21/2025 20:17	WG2492341

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	71.1	J	23.2	200	1	04/23/2025 10:46	WG2495437
Calcium	108000	V	153	1000	1	04/23/2025 10:46	WG2495437

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	281000		10000	1	04/17/2025 11:09	WG2492616

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	905	J	547	1000	1	04/21/2025 20:57	WG2492341
Fluoride	165		76.1	150	1	04/21/2025 20:57	WG2492341
Sulfate	13200		637	5000	1	04/22/2025 13:43	WG2492341

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	63.8	J	23.2	200	1	04/23/2025 10:53	WG2495437
Calcium	76500		153	1000	1	04/23/2025 10:53	WG2495437

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	319000		10000	1	04/17/2025 11:09	WG2492616

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	1040		547	1000	1	04/21/2025 21:11	WG2492341
Fluoride	220		76.1	150	1	04/21/2025 21:11	WG2492341
Sulfate	17500		637	5000	1	04/22/2025 14:00	WG2492341

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	53.8	J	23.2	200	1	04/23/2025 10:55	WG2495437
Calcium	86700		153	1000	1	04/23/2025 10:55	WG2495437

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	166000		10000	1	04/17/2025 11:09	WG2492616

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	608	J	547	1000	1	04/21/2025 21:24	WG2492341
Fluoride	127	J	76.1	150	1	04/21/2025 21:24	WG2492341
Sulfate	6240		637	5000	1	04/22/2025 14:21	WG2492341

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	U		23.2	200	1	04/23/2025 10:56	WG2495437
Calcium	36300		153	1000	1	04/23/2025 10:56	WG2495437

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10000	1	04/17/2025 11:09	WG2492616

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	1480		547	1000	1	04/21/2025 21:38	WG2492341
Fluoride	U		76.1	150	1	04/21/2025 21:38	WG2492341
Sulfate	U		637	5000	1	04/22/2025 14:37	WG2492341

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	U		23.2	200	1	04/23/2025 10:59	WG2495437
Calcium	U		153	1000	1	04/23/2025 10:59	WG2495437

Method Blank (MB)

(MB) R4202359-1 04/17/25 11:09

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Dissolved Solids	U		10000	10000

L1848195-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1848195-05 04/17/25 11:09 • (DUP) R4202359-3 04/17/25 11:09

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Dissolved Solids	ND	ND	1	0.000		10

L1848494-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1848494-01 04/17/25 11:09 • (DUP) R4202359-4 04/17/25 11:09

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Dissolved Solids	2440000	2500000	1	2.11		10

Laboratory Control Sample (LCS)

(LCS) R4202359-2 04/17/25 11:09

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Dissolved Solids	8800000	8180000	93.0	90.0-110	

Method Blank (MB)

(MB) R4203209-1 04/21/25 16:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		547	1000
Fluoride	U		76.1	150
Sulfate	U		637	5000

L1848440-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1848440-09 04/21/25 17:21 • (DUP) R4203209-3 04/21/25 17:35

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		15
Fluoride	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

L1848443-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1848443-01 04/21/25 18:29 • (DUP) R4203209-6 04/21/25 18:42

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1350	1400	1	3.46		15
Fluoride	220	264	1	18.1	P1	15
Sulfate	3750	3790	1	0.878	J	15

Laboratory Control Sample (LCS)

(LCS) R4203209-2 04/21/25 16:54

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	39400	98.6	80.0-120	
Fluoride	8000	8070	101	80.0-120	
Sulfate	40000	40200	100	80.0-120	

L1848440-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1848440-09 04/21/25 17:21 • (MS) R4203209-4 04/21/25 17:48 • (MSD) R4203209-5 04/21/25 18:02

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	U	39100	38600	97.7	96.5	1	80.0-120			1.27	15
Fluoride	8000	U	7910	7750	98.9	96.9	1	80.0-120			2.11	15
Sulfate	40000	U	39600	39000	98.9	97.5	1	80.0-120			1.44	15

L1848443-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1848443-01 04/21/25 18:29 • (MS) R4203209-7 04/21/25 18:56

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	1350	40800	98.6	1	80.0-120	
Fluoride	8000	220	8370	102	1	80.0-120	
Sulfate	40000	3750	43300	99.0	1	80.0-120	

Method Blank (MB)

(MB) R4204032-1 04/23/25 12:54

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Boron	U		23.3	200
Calcium	U		153	1000

Laboratory Control Sample (LCS)

(LCS) R4204032-2 04/23/25 12:56

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1000	957	95.7	80.0-120	
Calcium	10000	9830	98.3	80.0-120	

L1848247-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1848247-05 04/23/25 12:58 • (MS) R4204032-4 04/23/25 13:01 • (MSD) R4204032-5 04/23/25 13:03

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1000	165	1130	1130	96.1	96.7	1	75.0-125			0.542	20
Calcium	10000	37300	46000	46700	87.4	94.0	1	75.0-125			1.42	20

Method Blank (MB)

(MB) R4204060-1 04/23/25 10:43

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Boron	U		23.3	200
Calcium	U		153	1000

Laboratory Control Sample (LCS)

(LCS) R4204060-2 04/23/25 10:45

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Boron	1000	945	94.5	80.0-120	
Calcium	10000	9560	95.6	80.0-120	

L1848443-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1848443-05 04/23/25 10:46 • (MS) R4204060-4 04/23/25 10:50 • (MSD) R4204060-5 04/23/25 10:51

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Boron	1000	71.1	1020	1020	94.9	94.8	1	75.0-125			0.168	20
Calcium	10000	108000	114000	115000	62.3	65.4	1	75.0-125	V	V	0.272	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Plum Point Services Co., LLC

2739 SCR 623
Osceola, AR 72370

Billing Information:
Accounts Payable
P.O. Box 567
Osceola, AR 72370

Report to:
Melissa Vaught 501-920-9642

Email To:
mvaught@olsson.com;mclayton@olsson.com;a

Project Description:
Plum Point Energy Station

City/State Collected: Osceola AR

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
A24-01343

Lab Project #
NAESOAR-PLUMPOINT

Collected by (print):
Michael Clayton

Site/Facility ID #

P.O. #
2025-00048

Collected by (signature):
Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Pres Chk

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cl, F, SO4 125mlHDPE-NoPres	TDS 250mlHDPE-NoPres	Total B, Ca 250mlHDPE-HNO3	Remarks	Sample # (lab only)
MW-101	Grab	GW		4/14/25	1340	3	X	X	X		-01
MW-102		GW		4/14/25	1435	3	X	X	X		-02
MW-103		GW		4/14/25	1150	3	X	X	X		-03
MW-104		GW				3	X	X	X		
MW-108		GW				3	X	X	X		
MW-110		GW				3	X	X	X		
MW-113		GW				3	X	X	X		
MW-115		GW				3	X	X	X		
MW-116		GW		4/14/25	1650	3	X	X	X		-04
MW-117		GW		4/15/25	1230	3	X	X	X		-05

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1648443
A245

Acctnum: **NAESOAR**
Template: **T175308**
Prelogin: **P1139780**
PM: **134 - Mark W. Beasley**
PB:
Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: ✓Y __N
RAD Screen <0.5 mR/hr: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If pres	Time
Michael Clayton	4/15/25	1700		—		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 27	PH – 10BDH2631 TRC – 3227A333	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Dwyatt	Date: 4.16.25 Time: 0900	Hold:	Condition: NCF / OK

Company Name/Address:
Plum Point Services Co., LLC

2739 SCR 623
Osceola, AR 72370

Billing Information:
Accounts Payable
P.O. Box 567
Osceola, AR 72370

Pres Chk

Report to: **Melissa Vaught 501-920-9642**

Email To: **mvaught@olsson.com;mclayton@olsson.com;a**

Project Description: **Plum Point Energy Station**

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Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project # **A24-01343**

Lab Project # **NAESOAR-PLUMPOINT**

Collected by (print): Michael Clayton

Site/Facility ID #

P.O. # **2025-00048**

Collected by (signature): Michael Clayton

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cl, F, SO4 125mlHDPE-NoPres	TDS 250mlHDPE-NoPres	Total B, Ca 250mlHDPE-HNO3	Remarks	Sample # (lab only)
MW-118	Grab	GW		4/15/25	1130	3	X	X	X		-06
MW-119		GW		4/14/25	1245	3	X	X	X		-07
MW-120		GW				3	X	X	X		
MW-121		GW		4/14/25	1540	3	X	X	X		-08
MW-113 DUP		GW		~~4/14/25~~	~~1305~~	3	X	X	X		
EPA EB-1		GW		4/14/25	1305	3	X	X	X		-09
		GW				3	X	X	X		
		GW				3	X	X	X		
		GW				3	X	X	X		

Chain of Custody Page 3 of 3

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
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SDG # LX8498143

Table #

Acctnum: **NAESOAR**
Template: **T175308**
Prelogin: **P1139780**
PM: **134 - Mark W. Beasley**
PB:

Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Michael Clayton	4/15/25	1700		—	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 27	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Dayana G	Date: 4.16.25 Time: 0900	Hold: / Condition: NCF / OK

Multiple Parcel Form

L# LB1481143

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
449359285996	TL19	1.0	0.4	1.4	Yes / No / (Not Present)
443924510927	TL19	0.7	0.4	1.1	Yes / No / (Not Present)
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

Dwayne
Name

4.16.25
Date

ANALYTICAL REPORT

April 28, 2025

Plum Point Services Co., LLC

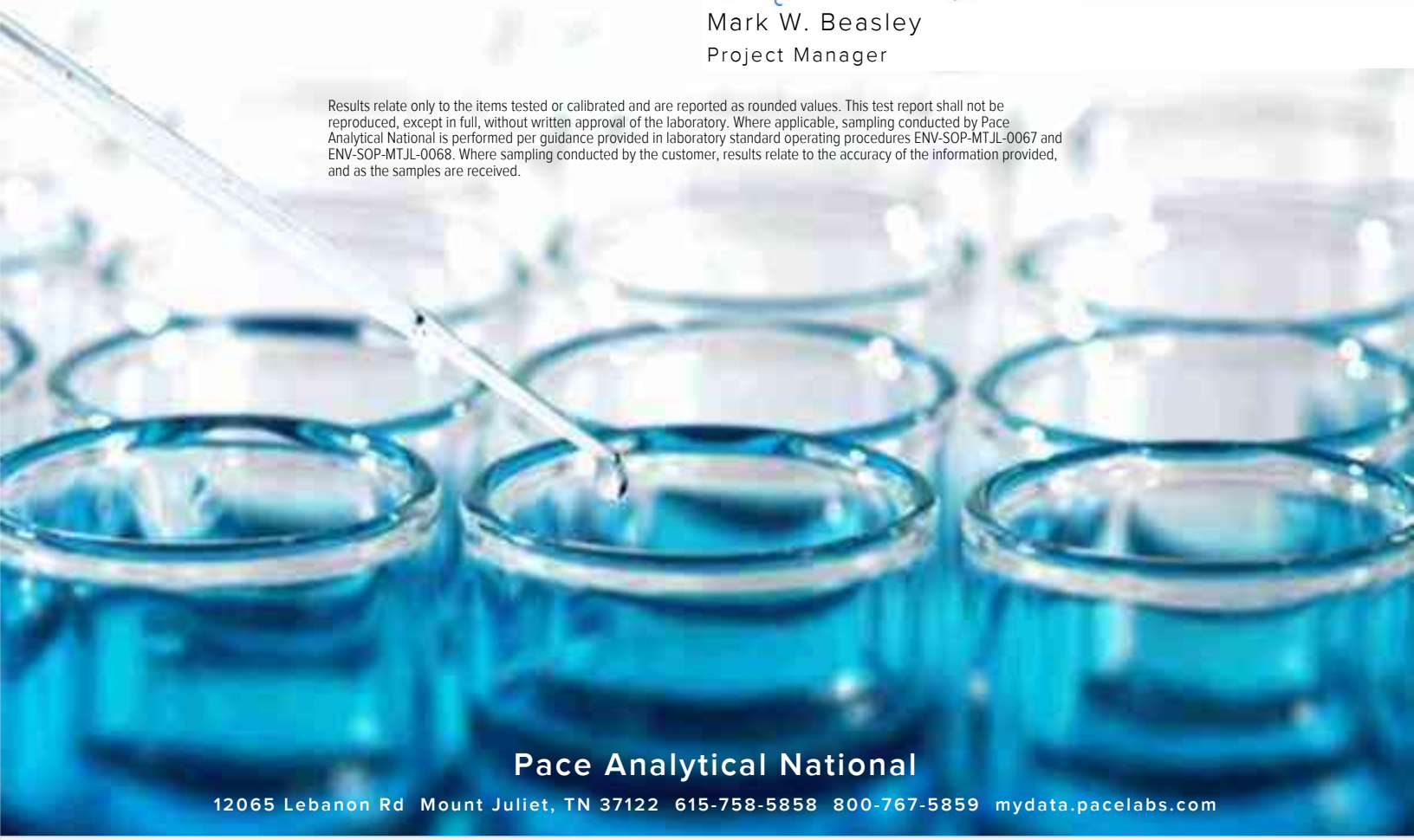
Sample Delivery Group:	L1850761
Samples Received:	04/12/2025
Project Number:	A24-01343
Description:	Plum Point Energy Station

Report To: Melissa Vaught
2739 SCR 623
Osceola, AR 72370

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

MW-104 L1850761-01 GW

Collected by: Michael Clayton
Collected date/time: 04/11/25 13:30
Received date/time: 04/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2497887	1	04/25/25 04:13	04/25/25 04:13	ZSA	Mt. Juliet, TN

MW-110 L1850761-02 GW

Collected by: Michael Clayton
Collected date/time: 04/11/25 12:05
Received date/time: 04/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2499742	1	04/28/25 03:14	04/28/25 11:30	MAP	Mt. Juliet, TN

MW-120 L1850761-03 GW

Collected by: Michael Clayton
Collected date/time: 04/11/25 14:35
Received date/time: 04/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2497887	1	04/25/25 04:29	04/25/25 04:29	ZSA	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	2040		547	1000	1	04/25/2025 04:13	WG2497887

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Calcium	75500		153	1000	1	04/28/2025 11:30	WG2499742

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Fluoride	225		76.1	150	1	04/25/2025 04:29	WG2497887

QUALITY CONTROL SUMMARY

L1850761-01,03

Method Blank (MB)

(MB) R4205031-1 04/25/25 01:13

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		547	1000
Fluoride	U		76.1	150

L1850597-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1850597-08 04/25/25 01:46 • (DUP) R4205031-3 04/25/25 02:02

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	934000	936000	5	0.202	E	15
Fluoride	621	552	5	11.8	J	15

L1850830-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1850830-04 04/25/25 06:23 • (DUP) R4205031-6 04/25/25 06:39

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	3270	3310	1	1.30		15
Fluoride		221	1	26.0	P1	15

Laboratory Control Sample (LCS)

(LCS) R4205031-2 04/25/25 01:30

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	38000	95.0	80.0-120	
Fluoride	8000	7780	97.3	80.0-120	

L1850597-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1850597-08 04/25/25 01:46 • (MS) R4205031-4 04/25/25 02:19 • (MSD) R4205031-5 04/25/25 02:35

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Fluoride	8000	621	7950	8000	91.6	92.2	5	80.0-120			0.599	15

L1850830-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1850830-04 04/25/25 06:23 • (MS) R4205031-7 04/25/25 06:56

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	3270	42400	97.7	1	80.0-120	

Method Blank (MB)

(MB) R4206302-1 04/28/25 11:37

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Calcium	U		153	1000

Laboratory Control Sample (LCS)

(LCS) R4206302-2 04/28/25 11:38

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Calcium	10000	9760	97.6	80.0-120	

L1850579-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1850579-02 04/28/25 11:40 • (MS) R4206302-4 04/28/25 11:44 • (MSD) R4206302-5 04/28/25 11:45

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Calcium	10000	126000	133000	132000	75.4	62.4	1	75.0-125		V	0.978	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
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~~MW-101~~		GW				3	X	X	X										
~~MW-102~~		GW				3	X	X	X										
~~MW-103~~		GW				3	X	X	X										
MW-104	Grab	GW		4/11/25	1330	3	X	X	X									-01	
MW-108		GW		4/10/25	1400	3	X	X	X									-02	
MW-110		GW		4/11/25	1205	3	X	X	X									-03	-02
MW-113		GW		4/10/25	1244	3	X	X	X									-04	
MW-115		GW		4/10/25	1140	3	X	X	X									-05	
MW-116		GW				3	X	X	X										
MW-117		GW				3	X	X	X										

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # ~~L1847449~~ Y195 L1850761 4/23/25

Acctnum: **NAESOAR**
Template: **T175308**
Prelogin: **P1139782**
PM: **134 - Mark W. Beasley**
PB: 03/26/25 LG
Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4495 5928 6025

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Michael Clayton	4/11/25	1730		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: TUB 0.9+0.4=1.2 21
				If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/12/25 Time: 0900
				Hold:

Condition NCF / OK

Company Name/Address:
Plum Point Services Co., LLC

2739 SCR 623
Osceola, AR 72370

Billing Information:
Accounts Payable
P.O. Box 567
Osceola, AR 72370

Pres Chk

Report to:
Melissa Vaught 501-920-9642

Email To:
mvaught@olsson.com;mclayton@olsson.com;a

Project Description:
Plum Point Energy Station

City/State Collected: Osceola Ar

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
A24-01343

Lab Project #
NAESOAR-PLUMPOINT

Collected by (print):
Michael Clayton

Site/Facility ID #

P.O. #
2025-00048

Collected by (signature):

Immediately
Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Pa

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # ~~184749~~

Table # L1850761

Acctnum: **NAESOAR**

Template:**T175308**

Prelogin: **P1139782**

PM: 134 - Mark W. Beasley

PB: 03/26/25G

Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cl, F, SO4 125mlHDPE-NoPres	TDS 250mlHDPE-NoPres	Total B, Ca 250mlHDPE-HNO3	Remarks	Sample # (lab only)
MW-118		GW				3	X	X	X		
MW-119		GW				3	X	X	X		
MW-120		GW		4/11/25	1435	3	X	X	X		~~-06~~ -03
MW-121		GW				3	X	X	X		
MW-113 DUP		GW		4/10/25	1245	3	X	X	X		~~-07~~
EPA EB-1		GW				3	X	X	X		
		GW				3	X	X	X		
		GW				3	X	X	X		
		GW				3	X	X	X		

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__UPS ✓FedEx __Courier _____

Tracking # 4493 5928 6025

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: ✓Y N
Bottles arrive intact: ✓Y N
Correct bottles used: ✓Y N
Sufficient volume sent: ✓Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: ✓Y N
RAD Screen <0.5 mR/hr: ✓Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	4/11/25	1730			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: TUA 9+10.4: 1.2 21	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/12/25 Time: 0900	Hold: Condition: NCF / OK

L1847497 *NAESOAR* relog

R2/R3/R4/RX/EX

Relog the following as EX due 4/28:

L1847497-01 CHLORIDE

L1847497-03 CAICP

L1847497-06 FLUORIDE

• • *

From: Melissa Vaught

Sent: Wednesday, April 23, 2025 8:40 AM

To: Mark Beasley

Cc: Andrew Pruitt

Subject: RE: Pace Analytical National Level II Report for A24-01343 Plum Point Energy Station L1847497

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Mark – For this data set, could you have the lab double check the calculations for the well/parameter pairs below and if confirmed, rerun
if within hold?

MW-110: calcium

MW-104: chloride

MW-120: fluoride

Questions, please let us know.

Melissa

NOTICE-- The contents of this email and any attachments may contain confidential, privileged, and/or legally protected information and are for the sole use of the addressee(s). Any review or distribution by others is strictly prohibited. If you are not
the intended recipient, please contact the sender immediately and delete any copies.

P Please consider the environment before printing this email

Time estimate: oh **Time spent:** oh

Members

MB Mark Beasley (responsible)

FIRST HALF 2025 VERIFICATION SAMPLING EVENT
JULY 2025

ANALYTICAL REPORT

July 14, 2025

Plum Point Services Co., LLC

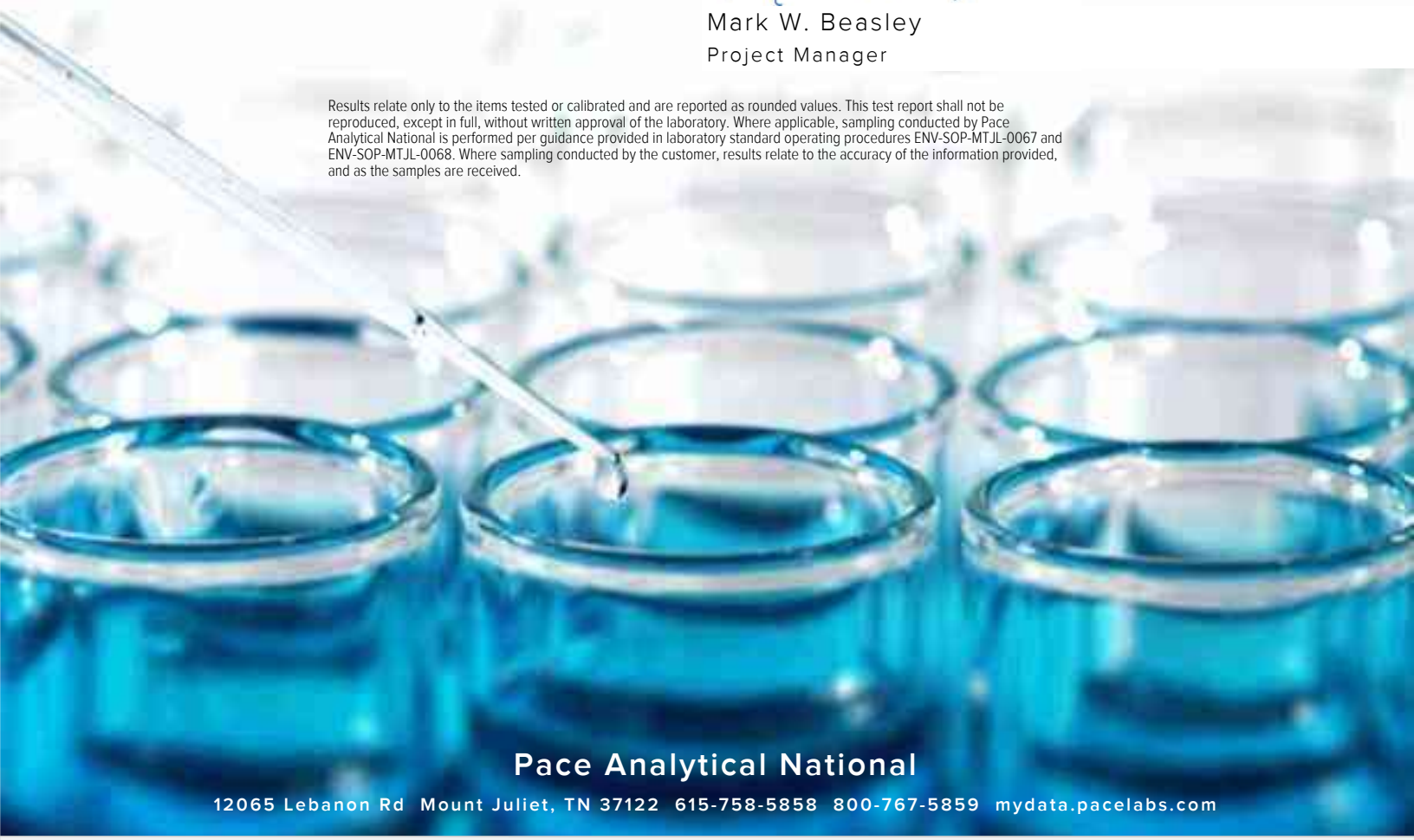
Sample Delivery Group:	L1875945
Samples Received:	07/03/2025
Project Number:	A24-01343
Description:	PPES EPA Program

Report To: Melissa Vaught
2739 SCR 623
Osceola, AR 72370

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MW-102 L1875945-01

Collected by: Michael Clayton | Collected date/time: 07/02/25 12:30 | Received date/time: 07/03/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2553160	1	07/05/25 07:32	07/07/25 08:52	BDC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2553064	10	07/09/25 23:25	07/09/25 23:25	AJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2555367	1	07/11/25 22:31	07/13/25 11:30	MAP	Mt. Juliet, TN

MW-102 DUP L1875945-02

Collected by: Michael Clayton | Collected date/time: 07/02/25 12:35 | Received date/time: 07/03/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2553160	1	07/05/25 07:32	07/07/25 08:52	BDC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2553064	10	07/09/25 23:38	07/09/25 23:38	AJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2555367	1	07/11/25 22:31	07/13/25 11:19	MAP	Mt. Juliet, TN

MW-104 L1875945-03

Collected by: Michael Clayton | Collected date/time: 07/01/25 18:10 | Received date/time: 07/03/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2553064	1	07/09/25 23:50	07/09/25 23:50	AJC	Mt. Juliet, TN

MW-110 L1875945-04

Collected by: Michael Clayton | Collected date/time: 07/01/25 17:00 | Received date/time: 07/03/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2553156	1	07/05/25 10:36	07/07/25 14:33	BDC	Mt. Juliet, TN

MW-115 L1875945-05

Collected by: Michael Clayton | Collected date/time: 07/01/25 16:15 | Received date/time: 07/03/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2553064	1	07/10/25 00:03	07/10/25 00:03	AJC	Mt. Juliet, TN

MW-116 L1875945-06

Collected by: Michael Clayton | Collected date/time: 07/02/25 11:25 | Received date/time: 07/03/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2553154	1	07/04/25 12:34	07/05/25 09:42	AMG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2555367	1	07/11/25 22:31	07/13/25 11:20	MAP	Mt. Juliet, TN

EPA EB-2 L1875945-07

Collected by: Michael Clayton | Collected date/time: 07/02/25 12:55 | Received date/time: 07/03/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2553158	1	07/05/25 11:10	07/05/25 11:10	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2553064	1	07/10/25 00:16	07/10/25 00:16	AJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2555367	1	07/11/25 22:31	07/13/25 11:22	MAP	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	852000		13300	1	07/07/2025 08:52	WG2553160

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	258000		6370	50000	10	07/09/2025 23:25	WG2553064

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	415		23.2	200	1	07/13/2025 11:30	WG2555367

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	841000		13300	1	07/07/2025 08:52	WG2553160

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	259000		6370	50000	10	07/09/2025 23:38	WG2553064

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	412		23.2	200	1	07/13/2025 11:19	WG2555367

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	1980		547	1000	1	07/09/2025 23:50	WG2553064
Sulfate	6690		637	5000	1	07/09/2025 23:50	WG2553064

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	326000	J4	10000	1	07/07/2025 14:33	WG2553156

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	6890		637	5000	1	07/10/2025 00:03	WG2553064

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	570000		10000	1	07/05/2025 09:42	WG2553154

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Calcium	154000		153	1000	1	07/13/2025 11:20	WG2555367

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10000	1	07/05/2025 11:10	WG2553158

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	U		547	1000	1	07/10/2025 00:16	WG2553064
Sulfate	U		637	5000	1	07/10/2025 00:16	WG2553064

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	U		23.2	200	1	07/13/2025 11:22	WG2555367
Calcium	U		153	1000	1	07/13/2025 11:22	WG2555367

Method Blank (MB)

(MB) R4241941-1 07/05/25 09:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Dissolved Solids	U		10000	10000

L1874993-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1874993-01 07/05/25 09:42 • (DUP) R4241941-3 07/05/25 09:42

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1460000	1470000	1	0.681		10

L1875956-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1875956-03 07/05/25 09:42 • (DUP) R4241941-4 07/05/25 09:42

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	189000	189000	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R4241941-2 07/05/25 09:42

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800000	8700000	98.9	90.0-110	

L1875769-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1875769-04 07/07/25 14:33 • (DUP) R4243025-3 07/07/25 14:33

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	308000	308000	1	0.000		10

Sample Narrative:

OS: Duplicate Analysis performed due to QC failure. Results confirm; reporting both results.

L1875956-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1875956-05 07/07/25 14:33 • (DUP) R4243025-4 07/07/25 14:33

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	223000	223000	1	0.000		10

Sample Narrative:

OS: Duplicate Analysis performed due to QC failure. Results confirm; reporting both results.

Laboratory Control Sample (LCS)

(LCS) R4243025-2 07/07/25 14:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800000	7550000	85.8	90.0-110	J4

Method Blank (MB)

(MB) R4241955-1 07/05/25 11:10

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Dissolved Solids	U		10000	10000

L1875769-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1875769-03 07/05/25 11:10 • (DUP) R4241955-3 07/05/25 11:10

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	239000	242000	1	1.25		10

L1875948-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1875948-06 07/05/25 11:10 • (DUP) R4241955-4 07/05/25 11:10

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	ND	ND	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R4241955-2 07/05/25 11:10

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800000	8670000	98.5	90.0-110	

Method Blank (MB)

(MB) R4242677-1 07/07/25 08:52

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Dissolved Solids	U		10000	10000

L1875927-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1875927-01 07/07/25 08:52 • (DUP) R4242677-3 07/07/25 08:52

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	253000	257000	1	1.57		10

L1875956-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1875956-02 07/07/25 08:52 • (DUP) R4242677-4 07/07/25 08:52

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	212000	212000	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R4242677-2 07/07/25 08:52

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800000	8630000	98.1	90.0-110	

Method Blank (MB)

(MB) R4243256-1 07/09/25 19:01

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		547	1000
Sulfate	U		637	5000

L1875769-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1875769-16 07/09/25 19:27 • (DUP) R4243256-3 07/09/25 19:39

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	7070	7020	1	0.640		15
Sulfate	4370	4380	1	0.210	J	15

L1875927-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1875927-03 07/09/25 22:35 • (DUP) R4243256-6 07/09/25 22:48

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	623	606	1	2.82	J	15
Sulfate	9590	9760	1	1.77		15

Laboratory Control Sample (LCS)

(LCS) R4243256-2 07/09/25 19:14

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	37500	93.7	80.0-120	
Sulfate	40000	38600	96.5	80.0-120	

L1875769-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1875769-16 07/09/25 19:27 • (MS) R4243256-4 07/09/25 19:52 • (MSD) R4243256-5 07/09/25 20:04

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	7070	43800	43900	91.9	92.1	1	80.0-120			0.120	15
Sulfate	40000	4370	41900	41900	93.9	93.7	1	80.0-120			0.220	15

L1875927-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1875927-03 07/09/25 22:35 • (MS) R4243256-7 07/09/25 23:00

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	623	39200	96.5	1	80.0-120	
Sulfate	40000	9590	46600	92.5	1	80.0-120	

Method Blank (MB)

(MB) R4244372-1 07/13/25 11:27

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Boron	U		23.3	200
Calcium	U		153	1000

Laboratory Control Sample (LCS)

(LCS) R4244372-2 07/13/25 11:29

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Boron	1000	982	98.2	80.0-120	
Calcium	10000	10200	102	80.0-120	

L1875945-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1875945-01 07/13/25 11:30 • (MS) R4244372-4 07/13/25 11:34 • (MSD) R4244372-5 07/13/25 11:36

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Boron	1000	415	1400	1390	98.0	97.8	1	75.0-125			0.148	20
Calcium	10000	197000	204000	205000	67.9	81.6	1	75.0-125	V		0.670	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Plum Point Services Co., LLC
2739 SCR 623
Osceola, AR 72370

Billing Information:
Accounts Payable
P.O. Box 567
Osceola, AR 72370

Pres Chk

Report to: **Melissa Vaught 501-920-9642**

Email To: **mvaught@olsson.com;mclayton@olsson.com;a**

Project Description: **PPES EPA Program**

City/State Collected: Osceola AR

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project # **A24-01343**

Lab Project # **NAESOAR-PLUMPOINT**

Collected by (print): Michael Clayton

Site/Facility ID #

P.O. # **2025-00048**

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cl, SO4 125mlHDPE-NoPres	SULFATE 125mlHDPE-NoPres	Sulfate 125mlHDPE-NoPres	TDS 1L-HDPE NoPres	Total B 250mlHDPE-HNO3	Total B, Ca 250mlHDPE-HNO3	Total Ca 250mlHDPE-HNO3	Remarks	Sample # (lab only)
MW-102	Grab	GW		7/2/25	1230	3		X		X	X				-01
MW-102 DUP		GW		7/2/25	1235	3		X		X	X				-02
MW-104		GW		7/1/25	1810	1	X								-03
MW-110		GW		7/1/25	1700	1				X					-04
MW-115		GW		7/1/25	1615	1			X						-05
MW-116		GW		7/2/25	1125	2				X			X		-06
EPA EB-2		GW		7/2/25	1255	3	X			X		X			-07

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 1875945
D047

Acctnum: **NAESOAR**
Template: **T275933**
Prelogin: **P1160148**
PM: **134 - Mark W. Beasley**
PB:

Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 458063117661

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	7/2/25	1800		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
				1.4-0.4=5.9 14
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:
				7/3/25 0900

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

SECOND HALF 2025 DETECTION MONITORING SAMPLING EVENT
OCTOBER 2025

ANALYTICAL REPORT

October 24, 2025

Plum Point Services Co., LLC

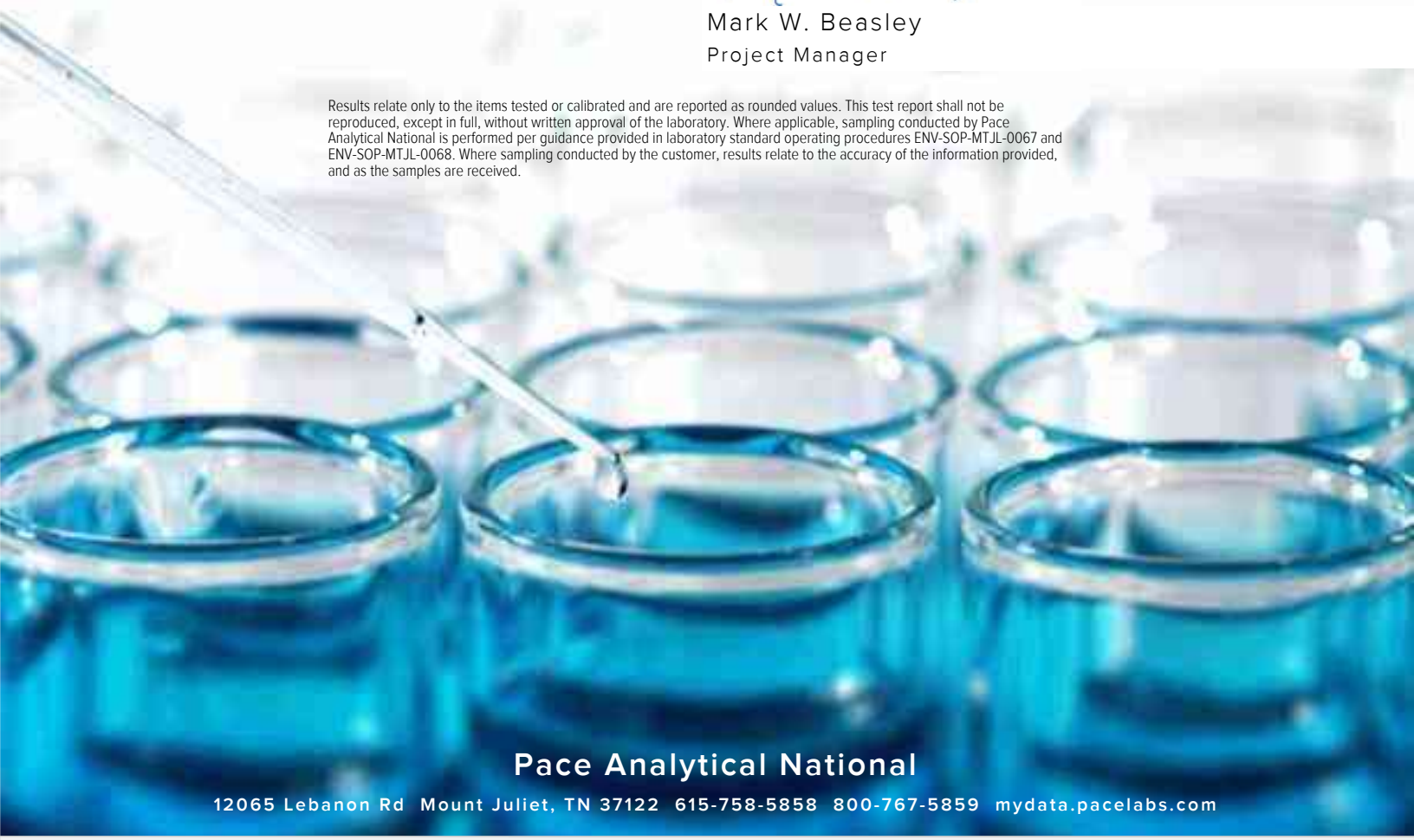
Sample Delivery Group:	L1909241
Samples Received:	10/17/2025
Project Number:	A24-01343
Description:	Plum Point Energy Station

Report To: Melissa Vaught
2739 SCR 623
Osceola, AR 72370

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MW-110 L1909241-01

Collected by: Harris de Noble | Collected date/time: 10/15/25 14:40 | Received date/time: 10/17/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2623419	1	10/19/25 14:37	10/20/25 13:42	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2622921	1	10/21/25 05:59	10/21/25 05:59	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2623278	1	10/21/25 10:04	10/21/25 14:45	MAP	Mt. Juliet, TN

MW-113 L1909241-02

Collected by: Harris de Noble | Collected date/time: 10/15/25 11:40 | Received date/time: 10/17/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2623419	1	10/19/25 14:37	10/20/25 13:42	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2623025	1	10/22/25 02:32	10/22/25 02:32	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2623278	1	10/21/25 10:04	10/21/25 14:46	MAP	Mt. Juliet, TN

MW-108 L1909241-03

Collected by: Harris de Noble | Collected date/time: 10/15/25 12:40 | Received date/time: 10/17/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2623419	1	10/19/25 14:37	10/20/25 13:42	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2623025	1	10/22/25 03:05	10/22/25 03:05	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2623278	1	10/21/25 10:04	10/21/25 14:48	MAP	Mt. Juliet, TN

MW-115 L1909241-04

Collected by: Harris de Noble | Collected date/time: 10/15/25 10:50 | Received date/time: 10/17/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2623419	1	10/19/25 14:37	10/20/25 13:42	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2623025	1	10/22/25 03:16	10/22/25 03:16	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2623278	1	10/21/25 10:04	10/21/25 14:50	MAP	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	342000		10000	1	10/20/2025 13:42	WG2623419

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	1140		547	1000	1	10/21/2025 05:59	WG2622921
Fluoride	193		76.1	150	1	10/21/2025 05:59	WG2622921
Sulfate	6260		637	5000	1	10/21/2025 05:59	WG2622921

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	56.7	J	23.2	200	1	10/21/2025 14:45	WG2623278
Calcium	87200		153	1000	1	10/21/2025 14:45	WG2623278

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	236000		10000	1	10/20/2025 13:42	WG2623419

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	565	J	547	1000	1	10/22/2025 02:32	WG2623025
Fluoride	87.5	J P1	76.1	150	1	10/22/2025 02:32	WG2623025
Sulfate	1800	J	637	5000	1	10/22/2025 02:32	WG2623025

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	75.8	J	23.2	200	1	10/21/2025 14:46	WG2623278
Calcium	53400		153	1000	1	10/21/2025 14:46	WG2623278

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	426000		10000	1	10/20/2025 13:42	WG2623419

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	1180		547	1000	1	10/22/2025 03:05	WG2623025
Fluoride	132	J	76.1	150	1	10/22/2025 03:05	WG2623025
Sulfate	15200		637	5000	1	10/22/2025 03:05	WG2623025

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	74.6	J	23.2	200	1	10/21/2025 14:48	WG2623278
Calcium	123000		153	1000	1	10/21/2025 14:48	WG2623278

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	391000		10000	1	10/20/2025 13:42	WG2623419

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	859	J	547	1000	1	10/22/2025 03:16	WG2623025
Fluoride	187		76.1	150	1	10/22/2025 03:16	WG2623025
Sulfate	2210	J	637	5000	1	10/22/2025 03:16	WG2623025

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	57.0	J	23.2	200	1	10/21/2025 14:50	WG2623278
Calcium	108000		153	1000	1	10/21/2025 14:50	WG2623278

Method Blank (MB)

(MB) R4289896-1 10/20/25 13:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Dissolved Solids	U		10000	10000

L1909235-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1909235-01 10/20/25 13:42 • (DUP) R4289896-3 10/20/25 13:42

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2380000	2380000	1	0.336		10

L1909330-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1909330-01 10/20/25 13:42 • (DUP) R4289896-4 10/20/25 13:42

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	269000	264000	1	1.88		10

Laboratory Control Sample (LCS)

(LCS) R4289896-2 10/20/25 13:42

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800000	8560000	97.3	90.0-110	

Method Blank (MB)

(MB) R4289743-1 10/20/25 23:18

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		547	1000
Fluoride	U		76.1	150
Sulfate	U		637	5000

L1909101-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1909101-08 10/21/25 00:21 • (DUP) R4289743-3 10/21/25 00:34

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	16000	15600	1	2.70		15
Fluoride	U	U	1	0.000		15
Sulfate	28800	28300	1	1.61		15

L1909101-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1909101-09 10/21/25 01:12 • (DUP) R4289743-6 10/21/25 01:25

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	74500	75200	1	0.899		15
Fluoride	174	175	1	0.687		15
Sulfate	U	U	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R4289743-2 10/20/25 23:31

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	36700	91.8	80.0-120	
Fluoride	8000	7500	93.7	80.0-120	
Sulfate	40000	40100	100	80.0-120	

L1909101-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1909101-08 10/21/25 00:21 • (MS) R4289743-4 10/21/25 00:47 • (MSD) R4289743-5 10/21/25 00:59

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	16000	54200	51600	95.4	88.8	1	80.0-120			4.95	15
Fluoride	8000	U	8210	7830	103	97.9	1	80.0-120			4.65	15
Sulfate	40000	28800	64100	62700	88.3	84.7	1	80.0-120			2.23	15

L1909101-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L1909101-09 10/21/25 01:12 • (MS) R4289743-7 10/21/25 01:37

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	74500	99500	62.5	1	80.0-120	J6
Fluoride	8000	174	8250	101	1	80.0-120	
Sulfate	40000	U	40000	100	1	80.0-120	

Method Blank (MB)

(MB) R4291527-1 10/21/25 23:07

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		547	1000
Fluoride	U		76.1	150
Sulfate	U		637	5000

L1908963-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1908963-01 10/22/25 00:38 • (DUP) R4291527-3 10/22/25 00:49

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	41100	41200	1	0.132		15
Fluoride	627	618	1	1.48		15
Sulfate	39900	40500	1	1.58		15

L1909241-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1909241-02 10/22/25 02:32 • (DUP) R4291527-6 10/22/25 02:43

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	565	559	1	1.05	J	15
Fluoride	87.5	105	1	18.1	J P1	15
Sulfate	1800	1840	1	2.12	J	15

Laboratory Control Sample (LCS)

(LCS) R4291527-2 10/21/25 23:19

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	38900	97.3	80.0-120	
Fluoride	8000	8250	103	80.0-120	
Sulfate	40000	39500	98.9	80.0-120	

L1908963-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1908963-01 10/22/25 00:38 • (MS) R4291527-4 10/22/25 01:01 • (MSD) R4291527-5 10/22/25 01:12

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	41100	72800	73000	79.3	79.7	1	80.0-120	J6	J6	0.203	15
Fluoride	8000	627	8880	8720	103	101	1	80.0-120			1.84	15
Sulfate	40000	39900	72800	73200	82.3	83.1	1	80.0-120			0.428	15

L1909241-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1909241-02 10/22/25 02:32 • (MS) R4291527-7 10/22/25 02:54

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	565	39800	98.0	1	80.0-120	
Fluoride	8000	87.5	8130	101	1	80.0-120	
Sulfate	40000	1800	41300	98.8	1	80.0-120	

Method Blank (MB)

(MB) R4290252-6 10/21/25 16:48

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Boron	U		23.3	200
Calcium	U		153	1000

Laboratory Control Sample (LCS)

(LCS) R4290252-2 10/21/25 14:22

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1000	990	99.0	80.0-120	
Calcium	10000	10100	101	80.0-120	

L1909428-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1909428-01 10/21/25 14:24 • (MS) R4290252-4 10/21/25 14:27 • (MSD) R4290252-5 10/21/25 14:29

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1000	159	1150	1130	99.1	96.9	1	75.0-125			1.99	20
Calcium	10000	48600	60600	59900	120	113	1	75.0-125			1.12	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

EPA

Company Name/Address:
Plum Point Services Co., LLC
2739 SCR 623
Osceola, AR 72370

Billing Information:
Accounts Payable
P.O. Box 567
Osceola, AR 72370

Pres Chk

Report to: **Melissa Vaught 501-920-9642**

Email To: **mvaught@olsson.com;mclayton@olsson.com;a**

Project Description: **Plum Point Energy Station**

City/State Collected: Osceola, AR

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project # **A24-01343**

Lab Project # **NAESOAR-PLUMPOINT**

Collected by (print): Harris de Nobile

Site/Facility ID #

P.O. # **2025-00048**

Collected by (signature):

Immediately Packed on Ice N ___ Y V

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 190924

1237

Acctnum: **NAESOAR**
Template: **T175308**
Prelogin: **P1181280**
PM: **134 - Mark W. Beasley**
PB:
Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cl, F, SO4 125mlHDPE-NoPres	TDS 250mlHDPE-NoPres	Total B, Ca 250mlHDPE-HNO3	Remarks	Sample # (lab only)
~~MW-101~~ MW-110	grab	GW		10/15/2025	1440	3	X	X	X		-01
~~MW-102~~ MW-113		GW		10/15/2025	1140	3	X	X	X		-02
~~MW-103~~ MW-108		GW		10/15/2025	~~1240~~ 1240	3	X	X	X		-03
~~MW-104~~ MW-115		GW		10/15/2025	1050	3	X	X	X		-04
~~MW-108~~		GW				3	X	X	X		
~~MW-110~~		GW				3	X	X	X		
~~MW-113~~		GW				3	X	X	X		
~~MW-115~~		GW				3	X	X	X		
~~MW-116~~		GW				3	X	X	X		
~~MW-117~~		GW				3	X	X	X		

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 7919 4008 4428

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y __N
COC Signed/Accurate: Y __N
Bottles arrive intact: Y __N
Correct bottles used: Y __N
Sufficient volume sent: Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	10/16/25	1600	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Ann Woods

Trip Blank Received: Yes (No) HCL / MeoH TBR

Temp: °C Bottles Received: 12

TLA 1.5+0+1.5

if preservation required by Login: Date/Time

Date: 10/17/25 Time: 900

Hold:

Condition: NCF / (OK)

ANALYTICAL REPORT

October 30, 2025

Plum Point Services Co., LLC

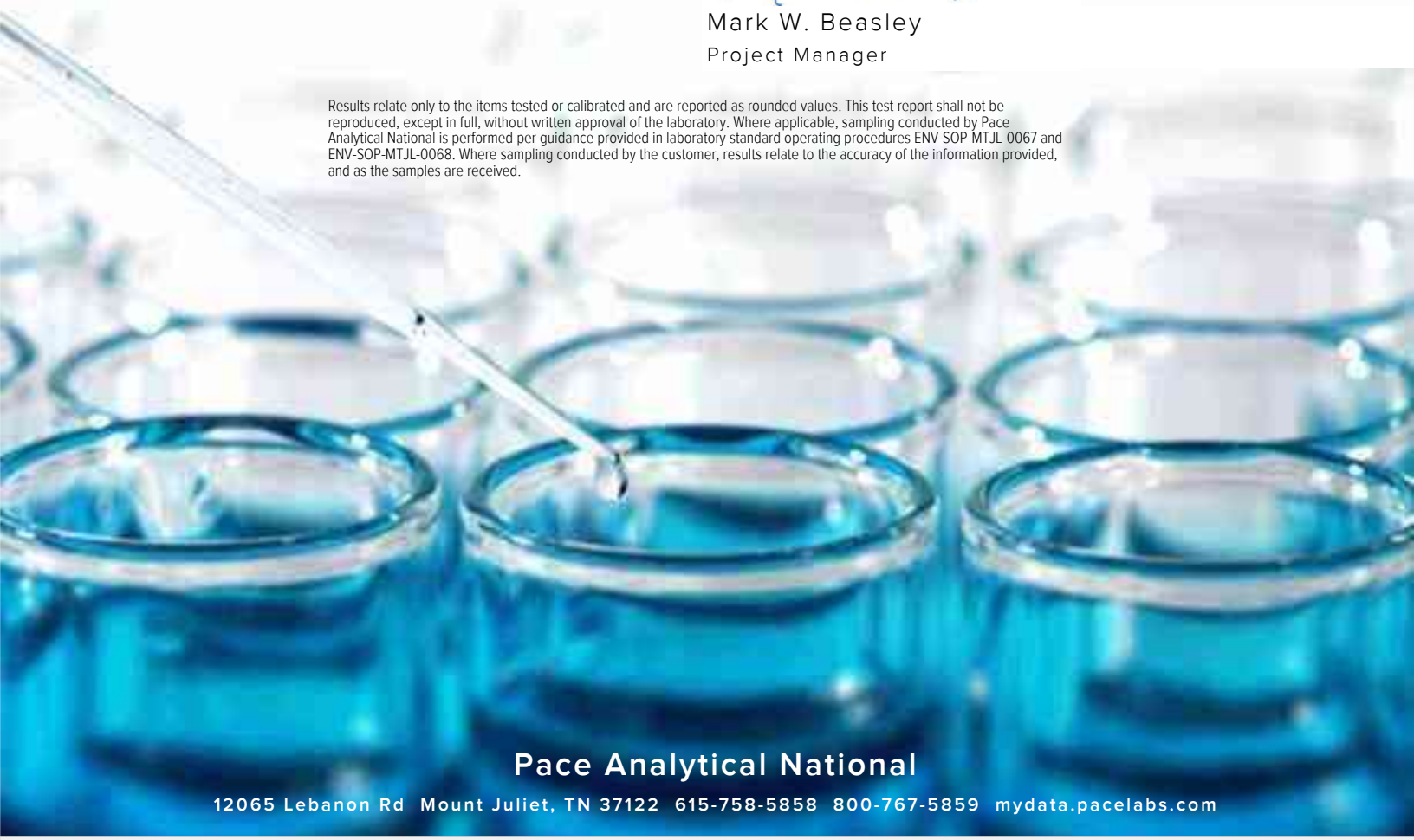
Sample Delivery Group:	L1910715
Samples Received:	10/23/2025
Project Number:	A24-01343
Description:	Plum Point Energy Station

Report To: Melissa Vaught
2739 SCR 623
Osceola, AR 72370

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MW-101 L1910715-01

Collected by: Michael Clayton | Collected date/time: 10/21/25 10:15 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627333	1	10/24/25 23:27	10/26/25 15:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626439	1	10/27/25 20:07	10/27/25 20:07	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2627078	1	10/28/25 09:06	10/28/25 20:05	NMM	Mt. Juliet, TN

MW-102 L1910715-02

Collected by: Michael Clayton | Collected date/time: 10/21/25 12:20 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627333	1	10/24/25 23:27	10/26/25 15:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626439	1	10/27/25 20:18	10/27/25 20:18	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626439	10	10/27/25 20:28	10/27/25 20:28	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2627078	1	10/28/25 09:06	10/28/25 20:08	NMM	Mt. Juliet, TN

MW-103 L1910715-03

Collected by: Michael Clayton | Collected date/time: 10/20/25 15:10 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627333	1	10/24/25 23:27	10/26/25 15:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626439	1	10/27/25 21:00	10/27/25 21:00	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2627078	1	10/28/25 09:06	10/28/25 20:10	NMM	Mt. Juliet, TN

MW-104 L1910715-04

Collected by: Michael Clayton | Collected date/time: 10/20/25 11:10 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627333	1	10/24/25 23:27	10/26/25 15:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626439	1	10/27/25 21:11	10/27/25 21:11	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2627078	1	10/28/25 09:06	10/28/25 20:17	NMM	Mt. Juliet, TN

MW-116 L1910715-05

Collected by: Michael Clayton | Collected date/time: 10/21/25 11:15 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627333	1	10/24/25 23:27	10/26/25 15:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626884	1	10/27/25 18:50	10/27/25 18:50	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2627078	1	10/28/25 09:06	10/28/25 20:19	NMM	Mt. Juliet, TN

MW-117 L1910715-06

Collected by: Michael Clayton | Collected date/time: 10/21/25 13:55 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627333	1	10/24/25 23:27	10/26/25 15:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626884	1	10/27/25 19:36	10/27/25 19:36	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2627078	1	10/28/25 09:06	10/28/25 20:22	NMM	Mt. Juliet, TN

MW-118 L1910715-07

Collected by: Michael Clayton | Collected date/time: 10/20/25 14:10 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627333	1	10/24/25 23:27	10/26/25 15:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626884	1	10/27/25 20:15	10/27/25 20:15	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2627078	1	10/28/25 09:06	10/28/25 20:24	NMM	Mt. Juliet, TN

MW-119 L1910715-08

Collected by: Michael Clayton | Collected date/time: 10/20/25 16:10 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627333	1	10/24/25 23:27	10/26/25 15:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626884	1	10/27/25 20:28	10/27/25 20:28	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2627078	1	10/28/25 09:06	10/28/25 20:27	NMM	Mt. Juliet, TN

MW-120 L1910715-09

Collected by: Michael Clayton | Collected date/time: 10/20/25 12:05 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627333	1	10/24/25 23:27	10/26/25 15:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626884	1	10/27/25 20:40	10/27/25 20:40	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2627078	1	10/28/25 09:06	10/28/25 20:29	NMM	Mt. Juliet, TN

MW-121 L1910715-10

Collected by: Michael Clayton | Collected date/time: 10/20/25 13:05 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627333	1	10/24/25 23:27	10/26/25 15:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626884	1	10/27/25 20:51	10/27/25 20:51	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2627078	1	10/28/25 09:06	10/28/25 20:31	NMM	Mt. Juliet, TN

MW-102 DUP L1910715-11

Collected by: Michael Clayton | Collected date/time: 10/21/25 12:25 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627295	1	10/25/25 00:00	10/27/25 16:13	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626884	1	10/27/25 21:02	10/27/25 21:02	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626884	5	10/30/25 06:00	10/30/25 06:00	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2627078	1	10/28/25 09:06	10/28/25 20:34	NMM	Mt. Juliet, TN

EPA EB-1 L1910715-12

Collected by: Michael Clayton | Collected date/time: 10/21/25 14:45 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627295	1	10/25/25 00:00	10/27/25 16:13	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626884	1	10/27/25 21:14	10/27/25 21:14	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2627078	1	10/28/25 09:06	10/28/25 20:36	NMM	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	348000		10000	1	10/26/2025 15:59	WG2627333

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	2150		547	1000	1	10/27/2025 20:07	WG2626439
Fluoride	302		76.1	150	1	10/27/2025 20:07	WG2626439
Sulfate	5330		637	5000	1	10/27/2025 20:07	WG2626439

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	46.6	J	23.2	200	1	10/28/2025 20:05	WG2627078
Calcium	92400		153	1000	1	10/28/2025 20:05	WG2627078

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	677000		13300	1	10/26/2025 15:59	WG2627333

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	5410		547	1000	1	10/27/2025 20:18	WG2626439
Fluoride	176		76.1	150	1	10/27/2025 20:18	WG2626439
Sulfate	209000		6370	50000	10	10/27/2025 20:28	WG2626439

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	254		23.2	200	1	10/28/2025 20:08	WG2627078
Calcium	167000		153	1000	1	10/28/2025 20:08	WG2627078

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	361000		10000	1	10/26/2025 15:59	WG2627333

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	1560		547	1000	1	10/27/2025 21:00	WG2626439
Fluoride	229		76.1	150	1	10/27/2025 21:00	WG2626439
Sulfate	20700		637	5000	1	10/27/2025 21:00	WG2626439

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	69.3	J	23.2	200	1	10/28/2025 20:10	WG2627078
Calcium	97700		153	1000	1	10/28/2025 20:10	WG2627078

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	333000		10000	1	10/26/2025 15:59	WG2627333

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	1850		547	1000	1	10/27/2025 21:11	WG2626439
Fluoride	286		76.1	150	1	10/27/2025 21:11	WG2626439
Sulfate	7120		637	5000	1	10/27/2025 21:11	WG2626439

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	54.2	J	23.2	200	1	10/28/2025 20:17	WG2627078
Calcium	88600		153	1000	1	10/28/2025 20:17	WG2627078

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	521000		10000	1	10/26/2025 15:59	WG2627333

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	3060		547	1000	1	10/27/2025 18:50	WG2626884
Fluoride	174		76.1	150	1	10/27/2025 18:50	WG2626884
Sulfate	55600	J6	637	5000	1	10/27/2025 18:50	WG2626884

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	102	J	23.2	200	1	10/28/2025 20:19	WG2627078
Calcium	142000		153	1000	1	10/28/2025 20:19	WG2627078

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	333000		10000	1	10/26/2025 15:59	WG2627333

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	2390	P1	547	1000	1	10/27/2025 19:36	WG2626884
Fluoride	354	P1	76.1	150	1	10/27/2025 19:36	WG2626884
Sulfate	9010	P1	637	5000	1	10/27/2025 19:36	WG2626884

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	72.6	J	23.2	200	1	10/28/2025 20:22	WG2627078
Calcium	92400		153	1000	1	10/28/2025 20:22	WG2627078

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	406000		10000	1	10/26/2025 15:59	WG2627333

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	1590		547	1000	1	10/27/2025 20:15	WG2626884
Fluoride	149	J	76.1	150	1	10/27/2025 20:15	WG2626884
Sulfate	29400		637	5000	1	10/27/2025 20:15	WG2626884

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	87.9	J	23.2	200	1	10/28/2025 20:24	WG2627078
Calcium	109000		153	1000	1	10/28/2025 20:24	WG2627078

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	360000		10000	1	10/26/2025 15:59	WG2627333

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	1320		547	1000	1	10/27/2025 20:28	WG2626884
Fluoride	193		76.1	150	1	10/27/2025 20:28	WG2626884
Sulfate	37700		637	5000	1	10/27/2025 20:28	WG2626884

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	53.4	J	23.2	200	1	10/28/2025 20:27	WG2627078
Calcium	91500		153	1000	1	10/28/2025 20:27	WG2627078

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	244000		10000	1	10/26/2025 15:59	WG2627333

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	1320		547	1000	1	10/27/2025 20:40	WG2626884
Fluoride	155		76.1	150	1	10/27/2025 20:40	WG2626884
Sulfate	19300		637	5000	1	10/27/2025 20:40	WG2626884

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	43.0	J	23.2	200	1	10/28/2025 20:29	WG2627078
Calcium	60100		153	1000	1	10/28/2025 20:29	WG2627078

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	272000		10000	1	10/26/2025 15:59	WG2627333

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	2170		547	1000	1	10/27/2025 20:51	WG2626884
Fluoride	117	J	76.1	150	1	10/27/2025 20:51	WG2626884
Sulfate	16500		637	5000	1	10/27/2025 20:51	WG2626884

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	58.0	J	23.2	200	1	10/28/2025 20:31	WG2627078
Calcium	66400		153	1000	1	10/28/2025 20:31	WG2627078

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	673000		13300	1	10/27/2025 16:13	WG2627295

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	4890		547	1000	1	10/27/2025 21:02	WG2626884
Fluoride	159		76.1	150	1	10/27/2025 21:02	WG2626884
Sulfate	197000		3180	25000	5	10/30/2025 06:00	WG2626884

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	250		23.2	200	1	10/28/2025 20:34	WG2627078
Calcium	163000		153	1000	1	10/28/2025 20:34	WG2627078

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	12000		10000	1	10/27/2025 16:13	WG2627295

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	U		547	1000	1	10/27/2025 21:14	WG2626884
Fluoride	U		76.1	150	1	10/27/2025 21:14	WG2626884
Sulfate	U		637	5000	1	10/27/2025 21:14	WG2626884

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	U		23.2	200	1	10/28/2025 20:36	WG2627078
Calcium	U		153	1000	1	10/28/2025 20:36	WG2627078

Method Blank (MB)

(MB) R4293553-1 10/27/25 16:13

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Dissolved Solids	U		10000	10000

L1910678-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1910678-20 10/27/25 16:13 • (DUP) R4293553-3 10/27/25 16:13

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Dissolved Solids	3840000	3520000	1	8.70		10

L1910715-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1910715-12 10/27/25 16:13 • (DUP) R4293553-4 10/27/25 16:13

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Dissolved Solids	12000	12000	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R4293553-2 10/27/25 16:13

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Dissolved Solids	8800000	8250000	93.8	90.0-110	

Method Blank (MB)

(MB) R4292843-1 10/26/25 15:59

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Dissolved Solids	U		10000	10000

L1910710-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1910710-01 10/26/25 15:59 • (DUP) R4292843-3 10/26/25 15:59

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Dissolved Solids	581000	577000	1	0.690		10

L1910715-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1910715-10 10/26/25 15:59 • (DUP) R4292843-4 10/26/25 15:59

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Dissolved Solids	272000	276000	1	1.46		10

Laboratory Control Sample (LCS)

(LCS) R4292843-2 10/26/25 15:59

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Dissolved Solids	8800000	8790000	99.9	90.0-110	

Method Blank (MB)

(MB) R4292824-1 10/27/25 13:04

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		547	1000
Fluoride	U		76.1	150
Sulfate	U		637	5000

L1910616-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1910616-07 10/27/25 13:25 • (DUP) R4292824-3 10/27/25 13:35

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	10200	10100	1	1.17		15
Fluoride		U	1	0.000		15

L1910616-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1910616-07 10/27/25 14:07 • (DUP) R4292824-6 10/27/25 14:18

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	424000	425000	10	0.149		15

L1910616-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1910616-08 10/27/25 14:28 • (DUP) R4292824-7 10/27/25 14:39

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	25000	24800	1	0.555		15
Fluoride		436	1	1.21		15

L1910616-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1910616-08 10/27/25 15:00 • (DUP) R4292824-9 10/27/25 15:11

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	146000	148000	5	0.839		15

Laboratory Control Sample (LCS)

(LCS) R4292824-2 10/27/25 13:14

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	39200	98.0	80.0-120	
Fluoride	8000	8060	101	80.0-120	
Sulfate	40000	40800	102	80.0-120	

L1910616-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910616-07 10/27/25 13:25 • (MS) R4292824-4 10/27/25 13:46 • (MSD) R4292824-5 10/27/25 13:57

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	10200	46300	46300	90.1	90.1	1	80.0-120			0.00713	15
Fluoride	8000		7700	7720	96.2	96.5	1	80.0-120			0.263	15
Sulfate	40000	416000	353000	353000	0.000	0.000	1	80.0-120	E V	E V	0.0860	15

L1910616-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1910616-08 10/27/25 14:28 • (MS) R4292824-8 10/27/25 14:50

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	25000	58100	82.9	1	80.0-120	
Fluoride	8000		8150	96.4	1	80.0-120	
Sulfate	40000	145000	154000	21.5	1	80.0-120	E J6

QUALITY CONTROL SUMMARY

L1910715-05,06,07,08,09,10,11,12

Method Blank (MB)

(MB) R4292859-1 10/27/25 18:27

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		547	1000
Fluoride	U		76.1	150
Sulfate	U		637	5000

L1910715-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1910715-05 10/27/25 18:50 • (DUP) R4292859-3 10/27/25 19:02

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	3060	3070	1	0.404		15
Fluoride	174	167	1	4.34		15
Sulfate	55600	56800	1	2.11		15

L1910715-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1910715-06 10/27/25 19:36 • (DUP) R4292859-6 10/27/25 19:47

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	2390	1030	1	79.6	P1	15
Fluoride	354	128	1	93.7	J P1	15
Sulfate	9010	6430	1	33.4	P1	15

Laboratory Control Sample (LCS)

(LCS) R4292859-2 10/27/25 18:39

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	36100	90.3	80.0-120	
Fluoride	8000	7490	93.7	80.0-120	
Sulfate	40000	37300	93.3	80.0-120	

L1910715-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910715-05 10/27/25 18:50 • (MS) R4292859-4 10/27/25 19:13 • (MSD) R4292859-5 10/27/25 19:25

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	3060	42200	44300	97.8	103	1	80.0-120			4.85	15
Fluoride	8000	174	8130	8730	99.4	107	1	80.0-120			7.11	15
Sulfate	40000	55600	84400	89800	72.0	85.5	1	80.0-120	J6		6.19	15

L1910715-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1910715-06 10/27/25 19:36 • (MS) R4292859-7 10/27/25 19:59

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	2390	40500	95.2	1	80.0-120	
Fluoride	8000	354	8170	97.7	1	80.0-120	
Sulfate	40000	9010	45800	92.1	1	80.0-120	

Method Blank (MB)

(MB) R4293175-1 10/28/25 19:49

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Boron	U		23.3	200
Calcium	U		153	1000

Laboratory Control Sample (LCS)

(LCS) R4293175-2 10/28/25 19:51

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Boron	1000	1010	101	80.0-120	
Calcium	10000	10200	102	80.0-120	

L1910698-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910698-01 10/28/25 19:54 • (MS) R4293175-4 10/28/25 19:58 • (MSD) R4293175-5 10/28/25 20:01

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Boron	1000	U	988	998	98.8	99.8	1	75.0-125			1.05	20
Calcium	10000	U	10100	10100	101	101	1	75.0-125			0.00395	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Plum Point Services Co., LLC

2739 SCR 623
Osceola, AR 72370

Billing Information:
Accounts Payable
P.O. Box 567
Osceola, AR 72370

Report to:
Melissa Vaught 501-920-9642

Email To:
mvaught@olsson.com;mclayton@olsson.com;a

Project Description:
Plum Point Energy Station

City/State Collected: OSCEOLA AR

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
A24-01343

Lab Project #
NAESOAR-PLUMPOINT

Collected by (print):
Michael Clayton

Site/Facility ID #

P.O. #
2025-00048

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Pres Chk

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cl, F, SO4 125mlHDPE-NoPres	TDS 250mlHDPE-NoPres	Total B, Ca 250mlHDPE-HNO3							Remarks	Sample # (lab only)
MW-101	Grab	GW		10/21/25	1015	3	X	X	X								01
MW-102		GW		10/21/25	1220	3	X	X	X								02
MW-103		GW		10/20/25	1510	3	X	X	X								03
MW-104		GW		10/20/25	1110	3	X	X	X								04
~~MW-108~~		~~GW~~				~~3~~	~~X~~	~~X~~	~~X~~								
~~MW-110~~		~~GW~~				~~3~~	~~X~~	~~X~~	~~X~~								
~~MW-113~~		~~GW~~				~~3~~	~~X~~	~~X~~	~~X~~								
~~MW-115~~		~~GW~~				~~3~~	~~X~~	~~X~~	~~X~~								
MW-116		GW		10/21/25	1115	3	X	X	X								05
MW-117		GW		10/21/25	1355	3	X	X	X								06

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Michael Clayton	10/22/25	1400		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: Multi 36
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-23-25 Time: 0900

If ___ ate/Time

PH – 10BDH5121
TRC – 3223A228

Hold: Condition: NCF / OK

Chain of Custody Page 1 of 2

Pace
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MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1911075

T **F075**

Acctnum: **NAESOAR**
Template:**T175308**
Prelogin: **P1181281**
PM: **134 - Mark W. Beasley**
PB: 10/01/25CG
Shipped Via: **FedEX Ground**

Company Name/Address:
Plum Point Services Co., LLC

2739 SCR 623
Osceola, AR 72370

Billing Information:
Accounts Payable
P.O. Box 567
Osceola, AR 72370

Report to:
Melissa Vaught 501-920-9642

Email To:
mvaught@olsson.com;mclayton@olsson.com;a

Project Description:
Plum Point Energy Station

City/State Collected: Osceola, AR

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
A24-01343

Lab Project #
NAESOAR-PLUMPOINT

Collected by (print):
Michael Clayton

Site/Facility ID #

P.O. #
2025-00048

Collected by (signature):

Immediately Packed on Ice N ___ Y V

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Pres Chk

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cl, F, SO4 125mlHDPE-NoPres	TDS 250mlHDPE-NoPres	Total B, Ca 250mlHDPE-HNO3							Remarks	Sample # (lab only)
MW-118	GRAB	GW		10/20/25	1410	3	X	X	X								07
MW-119		GW		10/20/25	1610	3	X	X	X								08
MW-120		GW		10/20/25	1205	3	X	X	X								09
MW-121		GW		10/20/25	1305	3	X	X	X								10
MW-102 DUP		GW		10/21/25	1225	3	X	X	X								11
EPA EB-1		GW		10/21/25	1445	3	X	X	X								12
		GW				3	X	X	X								
		GW				3	X	X	X								
		GW				3	X	X	X								

Chain of Custody Page 2 of 2

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MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # U011075

Table #

Acctnum: **NAESOAR**
Template: **T175308**
Prelogin: **P1181281**
PM: **134 - Mark W. Beasley**
PB: 10/01/25CG
Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: X NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: X Y __N
RAD Screen <0.5 mR/hr: X Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / (No) HCL / MeoH TBR
Michael Clayton	10/22/25	1400		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: multi °C Bottles Received: 36
				If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-23-25 Time: 0900
				Hold: Condition: NCF / (OK)

L#U910715

Multiple Parcel Form

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
8836 9123 8568	TLA9	0.2	±0	0.2	Yes / No / Not Present
8836 9123 8557	TLA9	1.3	±0	1.3	Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

Name

Date

ANALYTICAL REPORT

November 10, 2025

Revised Report

Plum Point Services Co., LLC

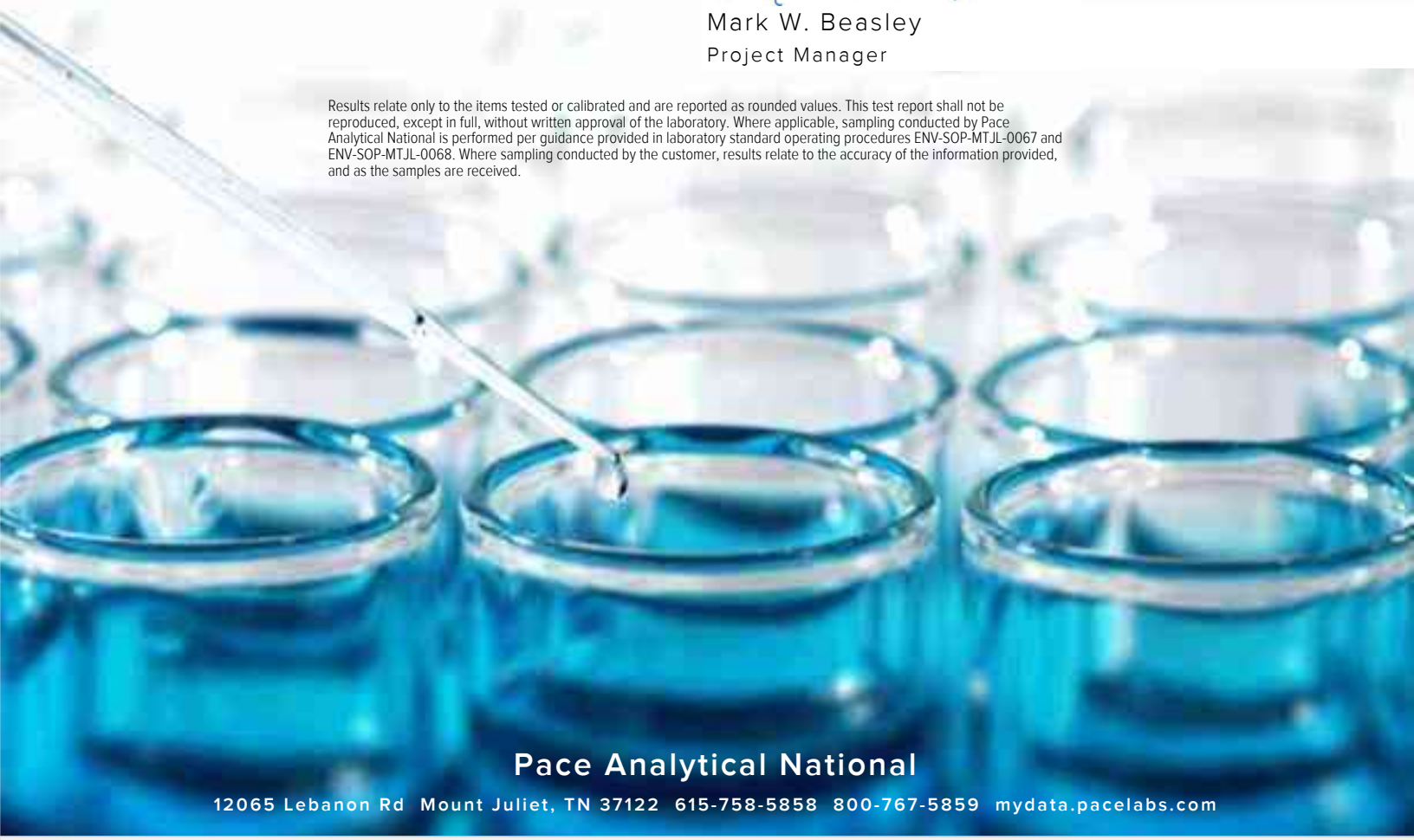
Sample Delivery Group:	L1913323
Samples Received:	10/23/2025
Project Number:	A24-01343
Description:	Plum Point Energy Station

Report To: Melissa Vaught
2739 SCR 623
Osceola, AR 72370

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

MW-104 L1913323-01

Collected by: Michael Clayton | Collected date/time: 10/20/25 11:10 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2631550	1	11/02/25 21:54	11/02/25 21:54	ZSA	Mt. Juliet, TN

MW-116 L1913323-02

Collected by: Michael Clayton | Collected date/time: 10/21/25 11:15 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2633030	1	11/04/25 19:27	11/05/25 01:05	MAP	Mt. Juliet, TN

MW-117 L1913323-03

Collected by: Michael Clayton | Collected date/time: 10/21/25 13:55 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2631495	1	11/03/25 20:51	11/03/25 20:51	GEB	Mt. Juliet, TN

MW-118 L1913323-04

Collected by: Michael Clayton | Collected date/time: 10/20/25 14:10 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2631495	1	11/03/25 21:34	11/03/25 21:34	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2633030	1	11/04/25 19:27	11/05/25 01:07	MAP	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

Report Revision History

Level II Report - Version 1: 11/07/25 15:53

Project Narrative

Corrected sample dates/times

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	6720		637	5000	1	11/02/2025 21:54	WG2631550

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Calcium	134000		153	1000	1	11/05/2025 01:05	WG2633030

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	6500		637	5000	1	11/03/2025 20:51	WG2631495

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	29300		637	5000	1	11/03/2025 21:34	WG2631495

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Calcium	104000		153	1000	1	11/05/2025 01:07	WG2633030

Method Blank (MB)

(MB) R4297803-1 11/03/25 20:30

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Sulfate	U		637	5000

L1913323-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1913323-03 11/03/25 20:51 • (DUP) R4297803-3 11/03/25 21:02

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	6500	6410	1	1.33		15

L1913323-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1913323-04 11/03/25 21:34 • (DUP) R4297803-6 11/03/25 21:44

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	29300	29300	1	0.0975		15

Laboratory Control Sample (LCS)

(LCS) R4297803-2 11/03/25 20:40

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40000	40100	100	80.0-120	

L1913323-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1913323-03 11/03/25 20:51 • (MS) R4297803-4 11/03/25 21:12 • (MSD) R4297803-5 11/03/25 21:23

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sulfate	40000	6500	44100	43900	93.9	93.5	1	80.0-120			0.343	15

L1913323-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1913323-04 11/03/25 21:34 • (MS) R4297803-7 11/03/25 21:55

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Sulfate	40000	29300	62500	82.9	1	80.0-120	

Method Blank (MB)

(MB) R4296577-1 11/02/25 21:31

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Sulfate	U		637	5000

L1913397-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1913397-05 11/05/25 13:39 • (DUP) R4297201-1 11/05/25 13:50

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	167000	193000	5	14.0		15

L1913397-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1913397-06 11/05/25 14:02 • (DUP) R4297201-2 11/05/25 14:13

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	130000	139000	5	6.81		15

Sample Narrative:

OS: Dilution due to matrix impact on instrumentation at lower dilution

Laboratory Control Sample (LCS)

(LCS) R4296577-2 11/02/25 21:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40000	36600	91.4	80.0-120	

L1913397-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1913397-05 11/02/25 23:26 • (MS) R4296577-4 11/02/25 23:48 • (MSD) R4296577-5 11/03/25 00:00

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sulfate	40000	150000	171000	164000	50.3	32.7	1	80.0-120	E J6	E J6	4.21	15

L1913397-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1913397-06 11/03/25 00:11 • (MS) R4296577-7 11/03/25 00:34

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Sulfate	40000	121000	139000	45.7	1	80.0-120	E J6

Method Blank (MB)

(MB) R4296430-1 11/05/25 00:22

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Calcium	U		153	1000

Laboratory Control Sample (LCS)

(LCS) R4296430-2 11/05/25 00:24

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Calcium	10000	9370	93.7	80.0-120	

L1913307-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1913307-10 11/05/25 00:26 • (MS) R4296430-4 11/05/25 00:29 • (MSD) R4296430-5 11/05/25 00:31

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Calcium	10000	29400	38000	37600	85.6	81.6	1	75.0-125			1.08	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Plum Point Services Co., LLC

2739 SCR 623
Osceola, AR 72370

Billing Information:
Accounts Payable
P.O. Box 567
Osceola, AR 72370

Report to:
Melissa Vaught 501-920-9642

Email To:
mvaught@olsson.com;mclayton@olsson.com;a

Project Description:
Plum Point Energy Station

City/State Collected: OSCEOLA AR

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
A24-01343

Lab Project #
NAESOAR-PLUMPOINT

Collected by (print):
Michael Clayton

Site/Facility ID #

P.O. #
2025-00048

Collected by (signature):
Immediately
Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE
L1913323
MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1910115 SW 10/31/25

T: F075

Acctnum: NAESOAR
Template: T175308
Prelogin: P1181281
PM: 134 - Mark W. Beasley
PB: 10/01/25 CG
Shipped Via: FedEx Ground

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cl, F, SO4 125mlHDPE-NoPres	TDS 250mlHDPE-NoPres	Total B, Ca 250mlHDPE-HNO3	Remarks	Sample # (lab only)
MW-101	Grab	GW		10/21/25	1015	3	X	X	X		01
MW-102		GW		10/21/25	1220	3	X	X	X		02
MW-103		GW		10/20/25	1510	3	X	X	X		03
MW-104		GW		10/20/25	1110	3	X	X	X	-01	04
MW-108		GW				3	X	X	X		
MW-110		GW				3	X	X	X		
MW-113		GW				3	X	X	X		
MW-115		GW				3	X	X	X		
MW-116		GW		10/21/25	1115	3	X	X	X	02	05
MW-117		GW		10/21/25	1355	3	X	X	X	03	06

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Michael Clayton	10/22/25	1400	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: Multi °C Bottles Received: 36

Date: 10-23-25 Time: 0900

If PH - 10BDH.111
TRC - 3223A228 ate/Time

Hold:

Condition: NCF / OK

Company Name/Address:
Plum Point Services Co., LLC

2739 SCR 623
Osceola, AR 72370

Billing Information:
Accounts Payable
P.O. Box 567
Osceola, AR 72370

Report to:
Melissa Vaught 501-920-9642

Email To:
mvaught@olsson.com;mclayton@olsson.com;a

Project Description:
Plum Point Energy Station

City/State Collected: Osceola, Ar

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
A24-01343

Lab Project #
NAESOAR-PLUMPOINT

Collected by (print):
Michael Clayton

Site/Facility ID #

P.O. #
2025-00048

Collected by (signature):

Immediately Packed on Ice N ___ Y V

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Chain of Custody Page 9 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1913323

Table # L1913323

Acctnum: **NAESOAR**
Template: **T175308**
Prelogin: **P1181281**
PM: **134 - Mark W. Beasley**
PB: 10/21/25C6

Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cl, F, SO4 125mlHDPE-NoPres	TDS 250mlHDPE-NoPres	Total B, Ca 250mlHDPE-HNO3	Remarks	Sample # (lab only)
MW-118	GRAB	GW		10/20/25	1410	3	X	X	X	-04	07
MW-119		GW		10/20/25	1610	3	X	X	X		08
MW-120		GW		10/20/25	1205	3	X	X	X		09
MW-121		GW		10/20/25	1305	3	X	X	X		10
MW-102 DUP		GW		10/21/25	1225	3	X	X	X		11
EPA EB-1		GW		10/21/25	1445	3	X	X	X		12
		GW				3	X	X	X		
		GW				3	X	X	X		
		GW				3	X	X	X		

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: X NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: X Y __N
RAD Screen <0.5 mR/hr: X Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	10/22/25	1400	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes (No) HCL / MeoH TBR

Temp: multi °C Bottles Received: 36

Date: 10-23-25 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

L1913323

R5

L1910715 *NAESOAR* relog

Relog the following as R5 due 11/7:

L1910715-04 SULFATE
L1910715-05 CAICP
L1910715-06 SULFATE
L1910715-07 CAICP, SULFATE

From: Melissa Vaught <mvaught@olsson.com>
Sent: Friday, October 31, 2025 8:11 AM
To: Mark Beasley <Mark.Beasley@pacelabs.com>
Cc: Andrew Pruitt <apruitt@olsson.com>
Subject: RE: Pace Analytical National Level II Report for A24-01343 Plum Point Energy Station L1910715

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Mark – For this PPES lab report, could you have the lab double check and if confirmed, rerun the following well/parameter pairs, if within hold:

MW-104 - Sulfate

MW-116 - Calcium

MW-117 – Sulfate

MW-118 – Calcium and Sulfate

Questions, please let me know.

Melissa

NOTICE-- The contents of this email and any attachments may contain confidential, privileged, and/or legally protected information and are for the sole use of the addressee(s). Any review or distribution by others is strictly prohibited. If you are not the intended recipient, please contact the sender immediately and delete any copies.

P Please consider the environment before printing this email

Time estimate: oh **Time spent:** oh

Members

MB Mark Beasley (responsible)

SECOND HALF 2025 VERIFICATION SAMPLING EVENT
DECEMBER 2025

ANALYTICAL REPORT

December 26, 2025

Plum Point Services Co., LLC

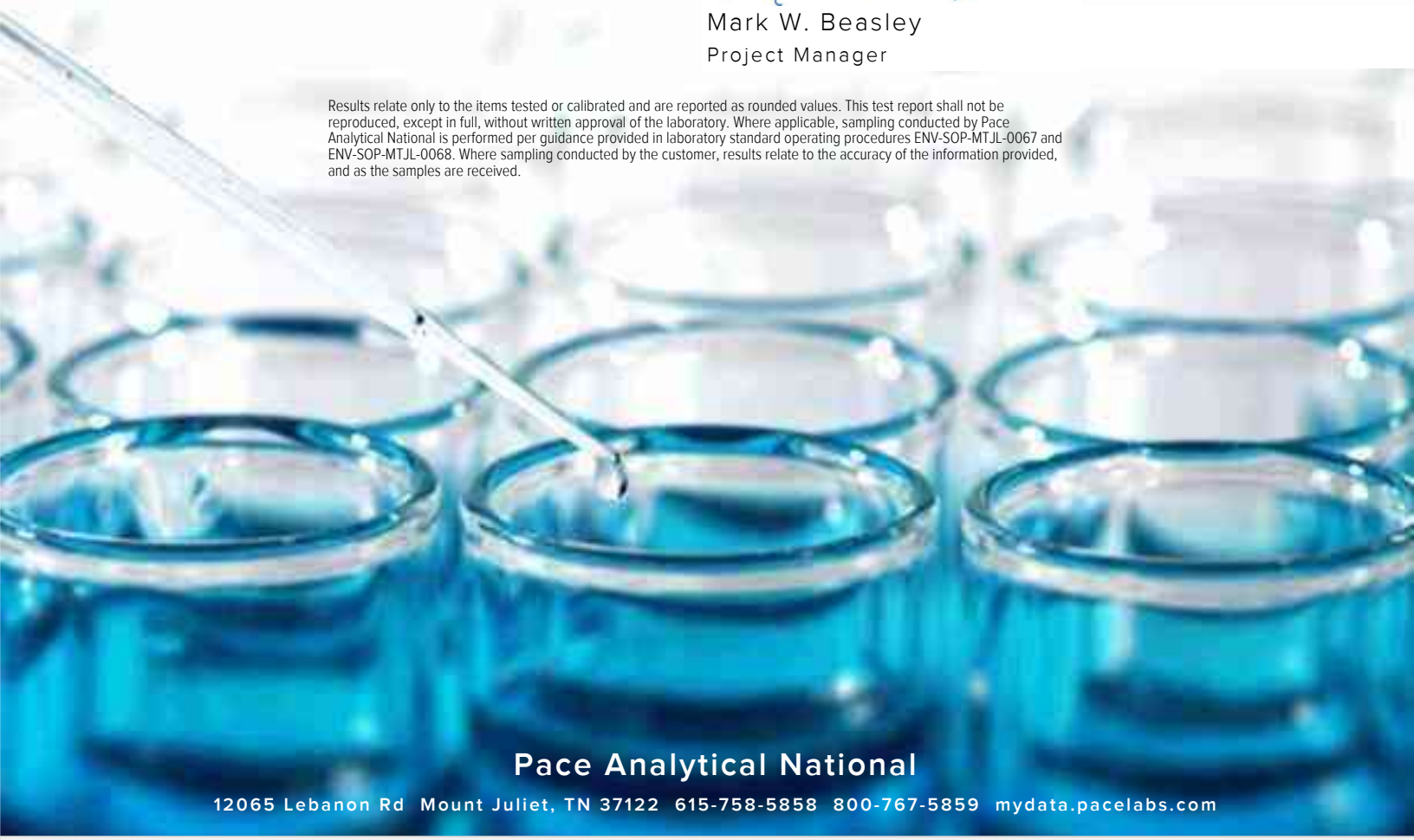
Sample Delivery Group:	L1929383
Samples Received:	12/18/2025
Project Number:	A24-01343
Description:	Plum Point Energy Station Landfill

Report To: Melissa Vaught
2739 SCR 623
Osceola, AR 72370

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MW-117 L1929383-01

Collected by: Michael Clayton | Collected date/time: 12/16/25 15:45 | Received date/time: 12/18/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2661939	1	12/19/25 08:01	12/22/25 13:33	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2661808	1	12/21/25 07:03	12/21/25 07:03	TRL	Mt. Juliet, TN

MW-118 L1929383-02

Collected by: Michael Clayton | Collected date/time: 12/16/25 14:20 | Received date/time: 12/18/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2661939	1	12/19/25 08:01	12/22/25 13:33	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2661808	1	12/21/25 07:13	12/21/25 07:13	TRL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2661896	1	12/23/25 10:23	12/23/25 18:25	NMM	Mt. Juliet, TN

MW-118 DUP L1929383-03

Collected by: Michael Clayton | Collected date/time: 12/16/25 14:25 | Received date/time: 12/18/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2661939	1	12/19/25 08:01	12/22/25 13:33	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2661808	1	12/21/25 07:24	12/21/25 07:24	TRL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2661896	1	12/23/25 10:23	12/23/25 18:27	NMM	Mt. Juliet, TN

MW-121 L1929383-04

Collected by: Michael Clayton | Collected date/time: 12/16/25 13:10 | Received date/time: 12/18/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2661939	1	12/19/25 08:01	12/22/25 13:33	AMG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2661896	1	12/23/25 10:23	12/23/25 17:25	NMM	Mt. Juliet, TN

EPA EB-2 L1929383-05

Collected by: Michael Clayton | Collected date/time: 12/16/25 16:00 | Received date/time: 12/18/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2661939	1	12/19/25 08:01	12/22/25 13:33	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2661808	1	12/21/25 07:35	12/21/25 07:35	TRL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2661896	1	12/23/25 10:23	12/23/25 18:29	NMM	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	318000		10000	1	12/22/2025 13:33	WG2661939

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	902	J	547	1000	1	12/21/2025 07:03	WG2661808
Fluoride	141	J	76.1	150	1	12/21/2025 07:03	WG2661808

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	336000		10000	1	12/22/2025 13:33	WG2661939

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	25800		637	5000	1	12/21/2025 07:13	WG2661808

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Calcium	97800		153	1000	1	12/23/2025 18:25	WG2661896

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	345000		10000	1	12/22/2025 13:33	WG2661939

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	26900		637	5000	1	12/21/2025 07:24	WG2661808

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Calcium	96700		153	1000	1	12/23/2025 18:27	WG2661896

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	196000		10000	1	12/22/2025 13:33	WG2661939

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Calcium	45300		153	1000	1	12/23/2025 17:25	WG2661896

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10000	1	12/22/2025 13:33	WG2661939

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	U		547	1000	1	12/21/2025 07:35	WG2661808
Fluoride	104	J	76.1	150	1	12/21/2025 07:35	WG2661808
Sulfate	865	J	637	5000	1	12/21/2025 07:35	WG2661808

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Calcium	U		153	1000	1	12/23/2025 18:29	WG2661896

Method Blank (MB)

(MB) R4318078-1 12/22/25 13:33

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Dissolved Solids	U		10000	10000

L1929383-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1929383-01 12/22/25 13:33 • (DUP) R4318078-3 12/22/25 13:33

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Dissolved Solids	318000	325000	1	2.18		10

L1929419-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1929419-02 12/22/25 13:33 • (DUP) R4318078-4 12/22/25 13:33

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Dissolved Solids	1240000	1220000	1	1.83		10

Laboratory Control Sample (LCS)

(LCS) R4318078-2 12/22/25 13:33

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Dissolved Solids	8800000	8480000	96.4	90.0-110	

Method Blank (MB)

(MB) R4317463-1 12/21/25 00:48

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		547	1000
Fluoride	U		76.1	150
Sulfate	U		637	5000

L1929259-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1929259-01 12/21/25 01:11 • (DUP) R4317463-3 12/21/25 01:23

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	38400	38500	1	0.170		15
Fluoride	340	355	1	4.32		15
Sulfate	25400	25500	1	0.310		15

L1929259-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1929259-02 12/21/25 01:57 • (DUP) R4317463-6 12/21/25 02:08

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	61300	62000	1	1.22		15
Fluoride	456	490	1	7.19		15
Sulfate	22900	23200	1	1.33		15

Laboratory Control Sample (LCS)

(LCS) R4317463-2 12/21/25 01:00

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	39400	98.5	80.0-120	
Fluoride	8000	8240	103	80.0-120	
Sulfate	40000	40500	101	80.0-120	

L1929259-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1929259-01 12/21/25 01:11 • (MS) R4317463-4 12/21/25 01:34 • (MSD) R4317463-5 12/21/25 01:45

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	38400	71000	71100	81.5	81.8	1	80.0-120			0.184	15
Fluoride	8000	340	8270	8300	99.2	99.5	1	80.0-120			0.361	15
Sulfate	40000	25400	61200	61300	89.6	89.7	1	80.0-120			0.0714	15

L1929259-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1929259-02 12/21/25 01:57 • (MS) R4317463-7 12/21/25 02:19

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	61300	89500	70.4	1	80.0-120	J6
Fluoride	8000	456	8410	99.4	1	80.0-120	
Sulfate	40000	22900	59400	91.2	1	80.0-120	

QUALITY CONTROL SUMMARY

L1929383-02,03,04,05

Method Blank (MB)

(MB) R4318318-1 12/23/25 17:20

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Calcium	U		153	1000

Laboratory Control Sample (LCS)

(LCS) R4318318-2 12/23/25 17:23

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Calcium	10000	9950	99.5	80.0-120	

L1929383-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1929383-04 12/23/25 17:25 • (MS) R4318318-4 12/23/25 17:30 • (MSD) R4318318-5 12/23/25 17:32

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Calcium	10000	45300	53900	54200	85.6	89.3	1	75.0-125			0.686	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Plum Point Energy Station, LLC

2739 SCR 623
Osceola, AR 72370

Accounts Payable
P.O. Box 567
Osceola, AR 72370

Report to: Melissa Vaught 501-920-9642

Email To: mvaught@olsson.com;mclayton@olsson.com;a

Project Description: Plum Point Energy Station Landfill

City/State Collected: Osceola AR

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project # A24-01343

Lab Project # NAESOAR-PLUMPOINT

Collected by (print): Michael Clayton

Collected by (signature): Michael Clayton

Immediately Packed on Ice N ___ Y ✓

Site/Facility ID #

P.O. # 2025-00048

Quote #

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Ca 250mlHDPE-HNO3	Cl, F, SO4 125mlHDPE-NoPres	Cl, Fl 125mlHDPE-NoPres	Sulfate 125mlHDPE-NoPres	TDS 1L-HDPE NoPres						
MW-117	Grab	GW		12/16/25	1515	2			X		X						-01
MW-118	↓	GW		12/16/25	1420	3	X			X	X						-02
MW-118 DUP		GW		12/16/25	1425	3	X			X	X						-03
MW-121		GW		12/16/25	1310	2	X				X						-04
EPA EB-2		GW		12/16/25	1600	3	X	X			X						-05
		GW				3	X	X			X						

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MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1929383

Table C176

Acctnum: NAESOAR

Template: T285427

Prelogin: P1195640

PM: 134 - Mark W. Beasley

PB:

Shipped Via: FedEX Ground

Remarks | Sample # (lab only)

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking #

Relinquished by : (Signature) Michael Clayton — Date: 12/17/25 — Time: 1700

Relinquished by : (Signature) — Date: — Time:

Relinquished by : (Signature) — Date: — Time:

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature) Valerie Davis — Date: 12/18/25 — Time: 0844

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: °C Bottles Received: 13
TL 0918 tcb 1818

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

ANALYTICAL REPORT

December 30, 2025

Plum Point Services Co., LLC

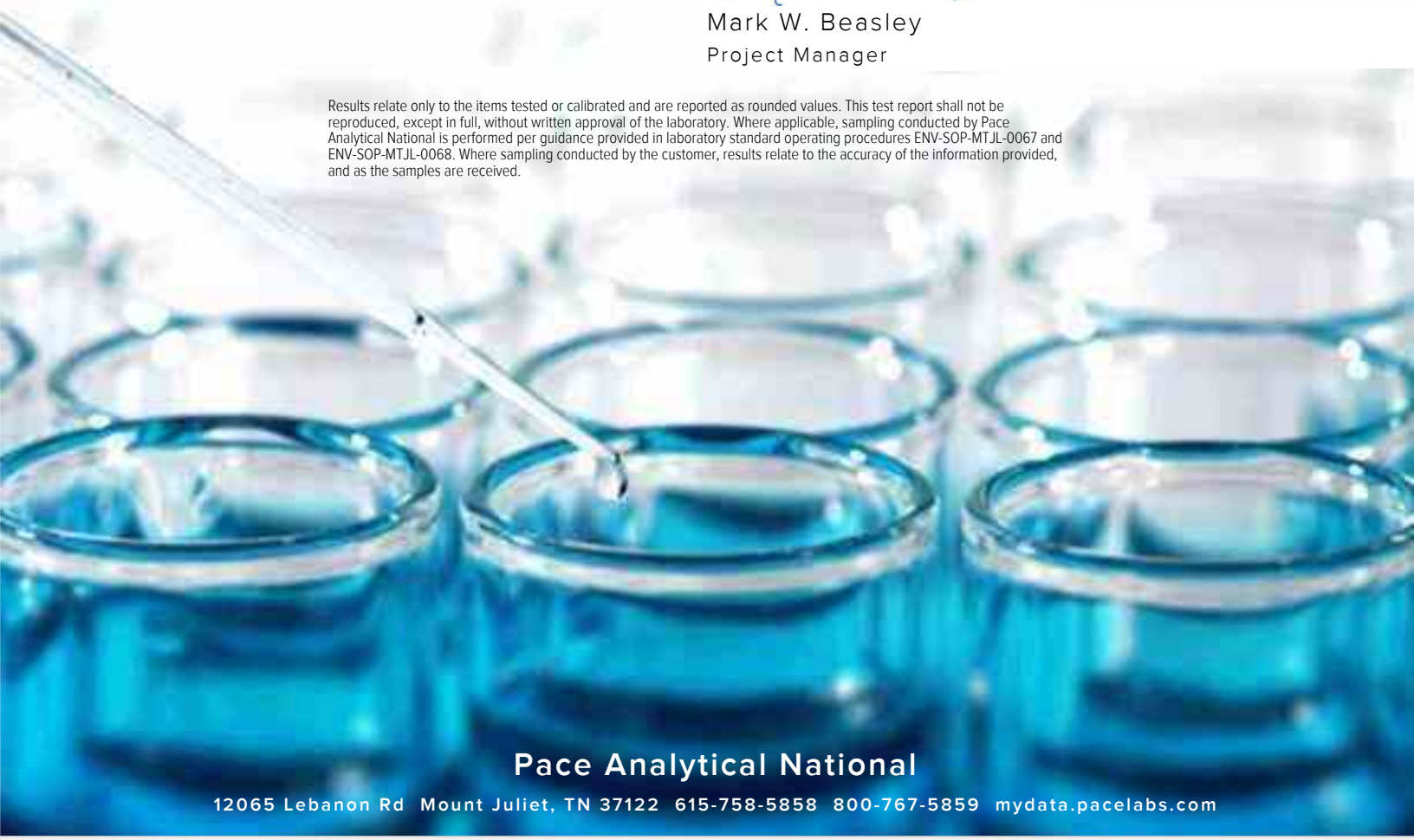
Sample Delivery Group:	L1931323
Samples Received:	12/18/2025
Project Number:	A24-01343
Description:	Plum Point Energy Station Landfill

Report To: Melissa Vaught
2739 SCR 623
Osceola, AR 72370

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

MW-118 L1931323-01

Collected by: Michael Clayton
Collected date/time: 12/16/25 14:20
Received date/time: 12/18/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2666241	1	12/29/25 23:53	12/30/25 10:53	MAP	Mt. Juliet, TN

MW-118 DUP L1931323-02

Collected by: Michael Clayton
Collected date/time: 12/16/25 14:25
Received date/time: 12/18/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2666241	1	12/29/25 23:53	12/30/25 10:56	MAP	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Calcium	97200		153	1000	1	12/30/2025 10:53	WG2666241

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Calcium	96600		153	1000	1	12/30/2025 10:56	WG2666241

QUALITY CONTROL SUMMARY

L1931323-01,02

Method Blank (MB)

(MB) R4320230-1 12/30/25 10:15

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Calcium	U		153	1000

Laboratory Control Sample (LCS)

(LCS) R4320230-2 12/30/25 10:17

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Calcium	10000	10300	103	80.0-120	

L1931309-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1931309-01 12/30/25 10:20 • (MS) R4320230-4 12/30/25 10:24 • (MSD) R4320230-5 12/30/25 10:27

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Calcium	10000	110000	117000	116000	74.1	65.1	1	75.0-125	V	V	0.773	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

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Plum Point Energy Station, LLC

2739 SCR 623
Osceola, AR 72370

Accounts Payable
P.O. Box 567
Osceola, AR 72370

Report to:
Melissa Vaught 501-920-9642

Email To:
mvaught@olsson.com;mclayton@olsson.com;a

Project Description:
Plum Point Energy Station Landfill

City/State Collected: Osceola AR

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
A24-01343

Lab Project #
NAESOAR-PLUMPOINT

Collected by (print):
Michael Clayton

Collected by (signature):
Immediately Packed on Ice N ___ Y ✓

Site/Facility ID #

P.O. #
2025-00048

Quote #

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Ca 250mlHDPE-HNO3	Cl, F, SO4 125mlHDPE-NoPres	Cl, Fl 125mlHDPE-NoPres	Sulfate 125mlHDPE-NoPres	TDS 1LHDPE NoPres
MW-117	Grab	GW		12/16/25	1515	2			X		X
MW-118	↓	GW		12/16/25	1420	3	X			X	X
MW-118 DUP		GW		12/16/25	1425	3	X			X	X
MW-121		GW		12/16/25	1310	2	X				X
EPA EB-2	↓	GW		12/16/25	1600	3	X	X			X
		GW				3	X	X			X

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MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # ~~L1929383~~ 12/29/25
Table C176 L1931323
Acctnum: NAESOAR
Template: T285427
Prelogin: P1195640
PM: 134 - Mark W. Beasley
PB:
Shipped Via: FedEX Ground

Remarks	Sample # (lab only)
	~~-01~~
	~~-02~~ -01
	~~-03~~ -02
	~~-04~~
	~~-05~~

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	✓ N
COC Signed/Accurate:		✓ N
Bottles arrive intact:		✓ N
Correct bottles used:		✓ N
Sufficient volume sent:		✓ N
If Applicable		
VOA Zero Headspace:	Y	N
Preservation Correct/Checked:	✓ Y	N
RAD Screen <0.5 mR/hr:	✓	N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Michael Clayton	12/17/25	1700	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Vdavis

Trip Blank Received: Yes / (No) HCL / MeoH TBR

Temp: °C Bottles Received: 13
TT 1.8 ↑ 3.1.8

Date: 12/18/25 Time: 0844

If preservation required by Login: Date/Time

Hold: Condition: NCF / (OK)

L1929383 *NAESOAR* relog

R2/R3/R4/RX/EX

Relog L1929383-02 & -03 for CAICP. Log as EX due 1/2.

Thanks

Mark Beasley

Manager – Client Operations / National

12065 Lebanon Road | Mt. Juliet, TN 37122

Office: 615.773.9672 | Cell: 615.330.1602

mark.beasley@pacelabs.com

--- Email body truncated due to large size. Full email body added as attachment. ---

Time estimate: oh **Time spent:** oh

Members

MB Mark Beasley (responsible)

APPENDIX C
WATER ELEVATION DATA AND HYDROGRAPHS

Historical water levels.

Date	Water Surface Elevation (ft, North American Vertical Datum of 1988)													
	MW-101	MW-102	MW-103	MW-104	MW-108	MW-110	MW-113	MW-115	MW-116	MW-117	MW-118	MW-119	MW-120	MW-121
10/7/2015	221.51	219.73	220.71	NA*	216.68	NA*	216.87	216.17	220.40	219.48	220.12	NA*	NA*	NA*
1/28/2016	226.07	226.58	225.16	NA*	227.39	NA*	226.53	225.03	226.14	225.78	225.22	NA*	NA*	NA*
4/26/2016	229.97	229.24	229.48	NA*	227.53	NA*	228.30	227.80	229.43	229.23	229.33	NA*	NA*	NA*
7/25/2016	225.79	225.38	225.41	NA*	223.87	NA*	224.87	224.78	225.33	225.45	222.53	NA*	NA*	NA*
10/4/2016	223.76	223.00	223.33	NA*	221.47	NA*	222.23	222.34	223.10	222.99	223.23	NA*	NA*	NA*
1/24/2017	223.08	222.09	222.79	NA*	222.66	NA*	222.03	222.54	222.12	222.00	222.34	223.14	NA*	NA*
4/24/2017	226.04	226.33	226.33	NA*	226.71	NA*	226.65	226.53	226.07	226.11	225.98	226.22	NA*	NA*
7/17/2017	228.89	228.74	228.48	NA*	227.77	NA*	228.65	228.41	228.53	228.77	228.65	228.86	NA*	NA*
9/19/2017	224.21	223.23	223.82	NA*	220.80	NA*	222.03	222.32	223.42	223.33	223.67	224.04	NA*	NA*
1/29/2018	222.35	221.12	222.14	NA*	220.01	NA*	219.32	220.74	221.33	221.18	221.71	222.39	NA*	NA*
4/10/2018	232.63	233.50	232.34	NA*	234.99	NA*	234.23	234.15	232.89	233.19	232.76	232.52	NA*	NA*
7/9/2018	228.52	228.81	228.50	NA*	228.72	NA*	229.03	228.95	228.49	228.87	228.73	228.49	NA*	NA*
9/24/2018	225.29	224.15	224.16	NA*	224.89	NA*	224.08	224.29	223.83	223.71	223.72	225.11	NA*	NA*
11/19/2018	228.54	228.80	228.16	NA*	230.16	NA*	229.57	229.62	228.31	228.71	228.46	228.33	NA*	NA*
2/18/2019	NM	NM	NM	NA*	NM	NA*	NM	NM	NM	NM	NM	236.90	NA*	NA*
5/14/2019	237.60	238.28	237.17	NA*	237.13	NA*	238.03	236.89	237.76	237.55	237.08	237.35	NA*	NA*
7/31/2019	232.75	233.02	232.22	NA*	232.39	NA*	232.66	231.26	232.55	232.75	232.40	232.48	NA*	NA*
10/21/2019	226.32	225.29	225.52	NA*	224.14	NA*	223.95	223.78	225.08	224.77	224.98	226.16	NA*	NA*
4/6/2020	238.06	239.09	237.46	NA*	240.81	NA*	239.83	239.08	238.49	238.51	237.83	238.76	NA*	NA*
10/7/2020	223.12	221.96	222.96	NA*	219.05	NA*	220.58	221.09	222.58	222.19	222.70	223.03	NA*	NA*
4/12/2021	231.65	232.06	233.51	NA*	233.90	NA*	233.12	233.15	231.38	231.81	231.53	231.69	NA*	NA*
6/29/2021	227.90	227.49	227.88	NA*	225.64	NA*	227.00	226.99	227.42	227.80	227.97	227.85	NA*	NA*
10/4/2021	222.14	221.32	221.94	NA*	219.28	NA*	220.25	220.53	221.49	221.37	221.7	222.04	NA*	NA*
12/14/2021	219.78	218.27	219.23	NA*	216.11	NA*	215.99	215.18	218.62	218.08	218.56	219.70	NA*	NA*
4/4/2022	226.11	225.81	225.29	NA*	226.97	NA*	226.00	225.89	225.36	225.22	225.03	226.33	NA*	NA*

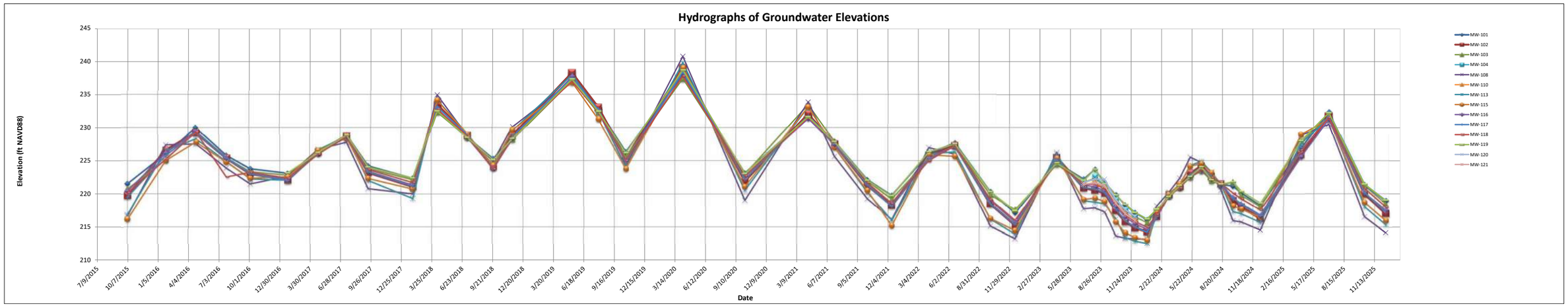
Historical water levels (continued).

Date	Water Surface Elevation (ft, North American Vertical Datum of 1988)													
	MW-101	MW-102	MW-103	MW-104	MW-108	MW-110	MW-113	MW-115	MW-116	MW-117	MW-118	MW-119	MW-120	MW-121
6/20/2022	227.66	227.28	227.27	NA*	225.96	NA*	226.32	225.66	227.24	227.16	227.28	227.52	NA*	NA*
10/3/2022	220.34	218.49	219.86	NA*	215.12	NA*	216.16	216.27	219.01	218.52	219.17	220.32	NA*	NA*
12/15/2022	217.12	215.27	217.61	NA*	213.26	NA*	213.93	214.45	215.73	215.34	216.00	217.43	NA*	NA*
4/17/2023	224.71	225.47	224.42	NA*	226.24	NA*	225.99	225.34	224.99	225.15	224.73	224.66	NA*	NA*
7/6/2023	222.22	220.91	221.70	NA*	217.74	NA*	218.98	219.16	221.29	220.96	221.43	222.03	221.71	221.42
8/8/2023	223.69	220.59	222.37	222.63	217.87	221.83	218.76	219.38	221.09	220.74	221.48	223.70	222.23	221.68
9/6/2023	221.64	220.13	221.15	221.23	217.26	220.89	218.52	218.86	220.47	220.25	220.78	221.52	222.22	221.27
10/9/2023	219.85	217.47	219.06	219.07	213.67	218.66	216.16	215.73	218.10	217.68	218.49	219.82	219.15	218.61
11/6/2023	218.33	215.78	217.53	217.57	213.33	217.13	213.44	214.13	216.47	215.93	216.81	218.41	217.64	216.99
12/5/2023	217.14	214.85	216.51	216.50	213.25	216.09	212.88	213.44	215.47	214.97	215.78	217.18	216.59	215.96
1/10/2024	216.06	214.28	215.63	215.71	213.19	215.30	212.54	213.03	214.61	214.20	214.94	216.19	215.72	215.13
2/7/2024	217.34	216.57	217.35	218.01	218.20	217.38	216.97	217.25	216.60	216.52	216.85	217.65	217.49	217.10
3/14/2024	219.62	219.92	219.73	219.83	220.27	219.75	220.06	219.89	NA**	219.77	219.71	219.60	219.78	219.77
4/15/2024	221.07	221.11	221.04	221.50	222.39	221.15	221.42	221.49	220.92	220.91	220.90	221.28	221.10	221.03
5/16/2024	222.56	223.11	222.50	222.84	225.53	222.80	224.28	224.15	222.63	222.93	222.68	222.61	222.57	222.75
6/18/2024	223.48	224.17	223.51	221.54	224.71	223.50	224.89	224.55	223.57	224.00	223.62	224.07	223.27	223.68
7/18/2024	222.15	222.62	221.98	222.28	223.32	222.44	223.24	223.19	222.18	222.66	222.42	222.12	222.12	222.48
8/15/2024	221.46	221.52	221.33	221.48	220.56	220.48	221.44	221.49	221.34	221.65	221.59	221.47	221.40	221.65
9/20/2024	221.15	219.03	221.77	221.16	215.93	220.54	217.31	218.19	219.44	219.31	220.11	221.80	221.34	220.35
10/14/2024	220.12	218.04	219.77	220.11	215.74	219.70	216.97	217.70	218.41	218.54	219.25	220.38	219.90	219.53
12/10/2024	218.24	216.25	218.05	218.59	214.52	218.20	215.68	216.41	216.60	216.80	217.57	218.59	218.37	217.92
4/9/2025	226.89	225.96	227.92	228.17	228.86	227.80	227.62	228.95	225.58	226.41	226.56	227.99	227.82	227.13
7/1/2025	232.33	231.82	231.59	231.51	230.51	231.48	231.42	231.29	231.28	231.71	231.5	232.26	231.49	231.34
10/14/2025	221.33	219.95	221.19	221.32	216.53	220.97	218.04	218.68	220.1	220.15	220.81	221.48	221.29	220.95
12/16/2025	218.92	217.02	218.47	218.65	214.11	218.28	215.32	215.93	217.5	217.21	217.98	219.01	218.63	217.95

*Monitoring well not added to EPA CCR program yet.

**Omitted due to likely field error.

NM=not measured


Hydrographs of Groundwater Elevations
Elevation (ft NAVD88)
245
240
235
230
225
220
215
210
7/9/2015
10/7/2015
1/5/2016
4/4/2016
7/3/2016
10/1/2016
12/30/2016
3/30/2017
6/28/2017
9/26/2017
12/25/2017
3/25/2018
6/23/2018
9/21/2018
12/20/2018
3/20/2019
6/18/2019
9/16/2019
12/15/2019
3/14/2020
6/12/2020
9/10/2020
12/9/2020
3/9/2021
6/7/2021
9/5/2021
12/4/2021
3/4/2022
6/2/2022
8/31/2022
11/29/2022
2/27/2023
5/28/2023
8/26/2023
11/24/2023
2/22/2024
5/22/2024
8/20/2024
11/18/2024
2/16/2025
5/17/2025
8/15/2025
11/13/2025
Date
MW-101
MW-102
MW-103
MW-104
MW-108
MW-110
MW-113
MW-115
MW-116
MW-117
MW-118
MW-119
MW-120
MW-121

APPENDIX D
GROUNDWATER QUALITY HISTORICAL DATABASE

Well ID	Date	Antimony (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Beryllium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (mg/L)	Cobalt (mg/L)
MW-101	downgradient										
	10/7/2015	0.000363(J)	0.00138(J)	0.173	<0.002	0.0858(J)	<0.001	116	3.02	0.000612(J)	<0.002
	1/28/2016	0.000382(J)	0.00128(J)	0.175	<0.002	0.114(J)	<0.001	117	2.74	0.000744(J)	<0.002
	4/27/2016	0.000273(J)	0.000885(J)	0.197	<0.002	0.105(J)	<0.001	120	6.61	<0.002	<0.002
	7/26/2016	<0.01	<0.01	0.192	<0.002	0.0877(J)	<0.002	115	3.41	<0.01	<0.01
	10/6/2016	<0.002	0.000708(J)	0.164	<0.002	0.089(J)	<0.001	110	1.93	0.000593(BJ)	<0.002
	1/25/2017	<0.002	0.000872(J)	0.172(B)	<0.002	0.0681(J)	<0.001	109	1.67	<0.002	<0.002
	4/26/2017	<0.002	0.000893(J)	0.172	<0.002	<1.8(O)	<0.001	80.5	2.14	<0.002	<0.002
	7/20/2017	<0.002	0.000786(J)	0.168	<0.002	0.0903(BJ)	<0.001	110	1.98	<0.002	<0.002
	9/20/2017	<0.002	0.000858(J)	0.167	<0.002	0.0718(J)	<0.001	153	1.57	<0.002	<0.002
	12/11/2017	n/a	n/a	n/a	n/a	n/a	n/a	120	n/a	n/a	n/a
	4/12/2018	n/a	n/a	n/a	n/a	0.084(BJ)	n/a	121	2.75	n/a	n/a
	9/26/2018	n/a	n/a	n/a	n/a	0.0981(BJ)	n/a	115	1.94(B)	n/a	n/a
	5/16/2019	n/a	n/a	n/a	n/a	0.118(J)	n/a	103	1.01	n/a	n/a
	10/23/2019	n/a	n/a	n/a	n/a	0.0491(J)	n/a	109	1.37	n/a	n/a
	4/8/2020	n/a	n/a	n/a	n/a	0.078(J)	n/a	105	0.823(J)	n/a	n/a
	10/9/2020	n/a	n/a	n/a	n/a	0.0556(J)	n/a	107	1.75	n/a	n/a
	4/15/2021	n/a	n/a	n/a	n/a	0.0608(J)	n/a	96.9	0.855(J)	n/a	n/a
	6/29/2021	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	10/7/2021	n/a	n/a	n/a	n/a	0.0555(J)	n/a	113	0.975(J)	n/a	n/a
	4/7/2022	n/a	n/a	n/a	n/a	0.0597(J)	n/a	105	0.848(J)	n/a	n/a
	10/5/2022	n/a	n/a	n/a	n/a	0.0526(J)	n/a	110	0.86(J)	n/a	n/a
	4/19/2023	n/a	n/a	n/a	n/a	0.0606(J)	n/a	108	3.15	n/a	n/a
	10/11/2023	n/a	n/a	n/a	n/a	0.053(J)	n/a	101	8.76	n/a	n/a
	4/19/2024	n/a	n/a	n/a	n/a	0.0584(BJ)	n/a	108	4.96	n/a	n/a
	10/16/2024	n/a	n/a	n/a	n/a	0.0553(J)	n/a	103	2.17	n/a	n/a
	4/14/2025	n/a	n/a	n/a	n/a	0.0622(J)	n/a	103	1.35(B)	n/a	n/a
	10/21/2025	n/a	n/a	n/a	n/a	0.0466(J)	n/a	92.4	2.15	n/a	n/a
MW-102	downgradient										
	11/10/2015	<0.002	0.000833(J)	0.176	<0.002	0.0818(J)	<0.001	121	5.53	<0.002	<0.002

B: analyte was detected in associated blank sample.

J: analyte was detected below the RDL; value is an estimate.

O: value is a statistical outlier; not used in statistics.

R: value rejected due to suspected error; not used in statistics.

Well ID	Date	Antimony (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Beryllium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (mg/L)	Cobalt (mg/L)
MW-102	1/28/2016	0.000324(J)	0.00138(J)	0.176	<0.002	0.125(J)	<0.001	123	5.33	0.000909(J)	<0.002
(cont.)	4/27/2016	0.00029(J)	0.000869(J)	0.199	<0.002	0.135(J)	<0.001	131	6.32	<0.002	<0.002
	7/26/2016	<0.01	<0.01	0.189	<0.002	0.122(J)	<0.002	122	5.42	0.00144(J)	<0.01
	10/6/2016	<0.002	0.00066(J)	0.165	<0.002	0.0999(J)	<0.001	120	5.18	<0.002	<0.002
	1/25/2017	<0.002	0.000764(J)	0.173(B)	<0.002	0.0938(J)	<0.001	118	4.5	0.000579(J)	<0.002
	4/27/2017	<0.002	0.000775(J)	0.175	<0.002	0.12(J)	<0.001	121	4.85	<0.002	<0.002
	7/19/2017	<0.002	0.000738(J)	0.182	<0.002	0.108(BJ)	<0.001	126	4.28	<0.002	<0.002
	9/20/2017	<0.002	0.000578(J)	0.16	<0.002	0.0536(J)	<0.001	25.9(O)	4.29	<0.002	<0.002
	4/11/2018	n/a	n/a	n/a	n/a	0.144(BJ)	n/a	136	1.77	n/a	n/a
	7/9/2018	n/a	n/a	n/a	n/a	n/a	n/a	124	n/a	n/a	n/a
	9/27/2018	n/a	n/a	n/a	n/a	0.121(BJ)	n/a	121	3.84	n/a	n/a
	5/16/2019	n/a	n/a	n/a	n/a	0.15(J)	n/a	121	2.87	n/a	n/a
	10/23/2019	n/a	n/a	n/a	n/a	0.0602(J)	n/a	117	3.62	n/a	n/a
	4/7/2020	n/a	n/a	n/a	n/a	0.089(J)	n/a	116	2.79	n/a	n/a
	10/9/2020	n/a	n/a	n/a	n/a	0.0699(J)	n/a	115	3.3	n/a	n/a
	4/15/2021	n/a	n/a	n/a	n/a	0.0966(J)	n/a	118	2.31	n/a	n/a
	10/6/2021	n/a	n/a	n/a	n/a	0.0784(J)	n/a	116	2.48	n/a	n/a
	4/6/2022	n/a	n/a	n/a	n/a	0.0838(J)	n/a	110	1.91	n/a	n/a
	10/5/2022	n/a	n/a	n/a	n/a	0.0769(J)	n/a	116	2.45	n/a	n/a
	4/19/2023	n/a	n/a	n/a	n/a	0.0884(J)	n/a	101	2.75	n/a	n/a
	10/12/2023	n/a	n/a	n/a	n/a	0.0777(J)	n/a	106	2.68	n/a	n/a
	4/19/2024	n/a	n/a	n/a	n/a	0.101(BJ)	n/a	109	3.57	n/a	n/a
	10/16/2024	n/a	n/a	n/a	n/a	0.275	n/a	138	3.57	n/a	n/a
	12/10/2024	n/a	n/a	n/a	n/a	0.132(J)	n/a	n/a	n/a	n/a	n/a
	4/14/2025	n/a	n/a	n/a	n/a	0.208	n/a	166	4.63(B)	n/a	n/a
	7/2/2025	n/a	n/a	n/a	n/a	0.415	n/a	n/a	n/a	n/a	n/a
	10/21/2025	n/a	n/a	n/a	n/a	0.254	n/a	167	5.41	n/a	n/a
MW-103	downgradient										
	10/7/2015	0.00028(J)	0.00113(J)	0.188	<0.002	0.119(J)	<0.001	168	3.92	<0.002	<0.002
	1/28/2016	0.000339(J)	0.00104(J)	0.165	<0.002	0.149(J)	<0.001	153	2.66	0.0007(J)	<0.002

B: analyte was detected in associated blank sample.

J: analyte was detected below the RDL; value is an estimate.

O: value is a statistical outlier; not used in statistics.

R: value rejected due to suspected error; not used in statistics.

Well ID	Date	Antimony (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Beryllium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (mg/L)	Cobalt (mg/L)
MW-103	4/27/2016	<0.002	0.000691(J)	0.172	<0.002	0.166(J)	<0.001	147	4.06	<0.002	<0.002
(cont.)	7/26/2016	<0.01	<0.01	0.177	<0.002	0.142(J)	<0.002	148	3.63	0.00216(J)	<0.01
	10/6/2016	<0.002	0.000905(J)	0.183	<0.002	0.137(J)	0.000302(J)	152	2.69	<0.002	0.000324(J)
	1/26/2017	<0.002	0.000536(J)	0.153(B)	<0.002	0.138(J)	<0.001	135	2.82	<0.002	<0.002
	4/27/2017	<0.002	0.000521(J)	0.159	<0.002	0.137(J)	<0.001	136	2.89	<0.002	<0.002
	7/20/2017	<0.002	0.000515(J)	0.151	<0.002	0.124(BJ)	<0.001	136	2.28	<0.002	<0.002
	9/20/2017	<0.002	0.000517(J)	0.151	<0.002	0.134(J)	<0.001	141	1.79	<0.002	<0.002
	4/11/2018	n/a	n/a	n/a	n/a	0.122(BJ)	n/a	128	3.24	n/a	n/a
	9/26/2018	n/a	n/a	n/a	n/a	0.145(BJ)	n/a	129	1.36(B)	n/a	n/a
	5/15/2019	n/a	n/a	n/a	n/a	0.154(J)	n/a	106	1.1	n/a	n/a
	10/22/2019	n/a	n/a	n/a	n/a	0.0816(J)	n/a	107	1.29	n/a	n/a
	4/8/2020	n/a	n/a	n/a	n/a	0.0541(J)	n/a	88.2	0.726(J)	n/a	n/a
	10/8/2020	n/a	n/a	n/a	n/a	0.0763(J)	n/a	91.9	3.55	n/a	n/a
	4/15/2021	n/a	n/a	n/a	n/a	0.0726(J)	n/a	85.9	0.976(J)	n/a	n/a
	10/7/2021	n/a	n/a	n/a	n/a	0.0681(J)	n/a	89.7	1.16	n/a	n/a
	4/7/2022	n/a	n/a	n/a	n/a	0.0552(J)	n/a	71.6	0.926(J)	n/a	n/a
	10/5/2022	n/a	n/a	n/a	n/a	0.0727(J)	n/a	79.8	0.949(J)	n/a	n/a
	4/18/2023	n/a	n/a	n/a	n/a	0.0622(J)	n/a	84.8	1	n/a	n/a
	10/11/2023	n/a	n/a	n/a	n/a	0.0743(J)	n/a	88	1.08	n/a	n/a
	4/19/2024	n/a	n/a	n/a	n/a	0.0636(BJ)	n/a	90.8	1.07	n/a	n/a
	10/16/2024	n/a	n/a	n/a	n/a	0.0644(J)	n/a	84.2	0.894(J)	n/a	n/a
	4/14/2025	n/a	n/a	n/a	n/a	0.0866(J)	n/a	102	2.19(B)	n/a	n/a
	10/20/2025	n/a	n/a	n/a	n/a	0.0693(J)	n/a	97.7	1.56	n/a	n/a
MW-104	downgradient										
	8/8/2023	<0.004	0.00204	0.159	<0.002	0.0568(J)	<0.001	76.1	0.857(J)	<0.002	<0.002
	9/7/2023	<0.004	0.00284	0.157	<0.002	0.0548(J)	<0.001	85.1	1.03	0.002(BJ)	0.000112(J)
	10/11/2023	<0.004	0.00465	0.159	<0.002	0.0516(J)	<0.001	83.2	0.993(J)	<0.002	0.000246(J)
	11/7/2023	<0.004	0.00524	0.161	<0.002	0.0632(J)	<0.001	83.3	1.06	<0.002	0.000369(J)
	12/5/2023	<0.004	0.00671	0.179	<0.002	0.0725(J)	<0.001	85.7	1.09	<0.002	0.000733(J)
	1/10/2024	<0.004	0.0052	0.161	<0.002	0.0533(J)	<0.001	87.6	1.05	<0.002	0.000699(J)

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R: value rejected due to suspected error; not used in statistics.

Well ID	Date	Antimony (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Beryllium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (mg/L)	Cobalt (mg/L)
MW-104	2/7/2024	<0.004	0.00492	0.158	<0.002	0.0614(J)	<0.001	87.8	1.28	<0.002	9.36E-05(J)
(cont.)	3/14/2024	0.00122(J)	0.00728	0.18	<0.002	0.0597(BJ)	<0.001	88.4	1.14	<0.002	0.000118(J)
	4/18/2024	<0.004	0.00485	0.161	<0.002	0.0542(BJ)	<0.001	84.7	1.03(B)	<0.002	0.000138(J)
	5/16/2024	<0.004	0.0157	0.25	<0.002	0.0511(J)	<0.001	84.5	1.25	<0.002	0.000176(J)
	6/18/2024	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	10/15/2024	n/a	n/a	n/a	n/a	0.0548(J)	n/a	87	0.906(J)	n/a	n/a
	4/11/2025	n/a	n/a	n/a	n/a	0.0593(J)	n/a	92	2.04(B)	n/a	n/a
	7/1/2025	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.98	n/a	n/a
	10/20/2025	n/a	n/a	n/a	n/a	0.0542(J)	n/a	88.6	1.85	n/a	n/a
MW-108	upgradient										
	1/28/2016	0.000353(J)	0.00128(J)	0.263	<0.002	0.164(J)	<0.001	166	5.34	0.000802(J)	<0.002
	4/28/2016	0.000428(J)	0.00101(J)	0.296	<0.002	0.194(J)	<0.001	178	2.81	<0.002	<0.002
	7/26/2016	<0.01	0.00651(J)	0.246	<0.002	0.158(J)	<0.002	144	2.43	<0.01	<0.01
	10/6/2016	<0.002	0.000646(J)	0.241	<0.002	0.174(J)	0.000194(J)	158	2.48	<0.002	<0.002
	1/26/2017	<0.002	0.000751(J)	0.244(B)	<0.002	0.164(J)	<0.001	154	2.64	<0.002	<0.002
	4/25/2017	<0.002	0.000856(J)	0.234	<0.002	0.147(J)	<0.001	151	3.1	<0.002	<0.002
	7/18/2017	<0.002	0.000931(J)	0.263	<0.002	0.162(J)	0.000186(J)	167	3.03	<0.002	<0.002
	9/19/2017	<0.002	0.00104(J)	0.259	<0.002	0.158(J)	<0.001	170	2.06	<0.002	<0.002
	4/10/2018	n/a	n/a	n/a	n/a	0.171(BJ)	n/a	183	3.03	n/a	n/a
	9/25/2018	n/a	n/a	n/a	n/a	0.183(BJ)	n/a	163	3.11	n/a	n/a
	5/14/2019	n/a	n/a	n/a	n/a	0.224(BR)	n/a	169	2.44	n/a	n/a
	8/1/2019	n/a	n/a	n/a	n/a	0.127(BJ)	n/a	n/a	n/a	n/a	n/a
	10/22/2019	n/a	n/a	n/a	n/a	0.11(J)	n/a	153	1.95	n/a	n/a
	4/6/2020	n/a	n/a	n/a	n/a	0.143(J)	n/a	160	1.87	n/a	n/a
	10/7/2020	n/a	n/a	n/a	n/a	0.111(J)	n/a	151	2.23	n/a	n/a
	4/13/2021	n/a	n/a	n/a	n/a	0.125(J)	n/a	149	2.67	n/a	n/a
	10/5/2021	n/a	n/a	n/a	n/a	0.111(J)	n/a	149	1.37	n/a	n/a
	4/5/2022	n/a	n/a	n/a	n/a	0.132(J)	n/a	151	1.38	n/a	n/a
	10/4/2022	n/a	n/a	n/a	n/a	0.0941(J)	n/a	138	1.24	n/a	n/a
	1/11/2023	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

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MW-108	4/18/2023	n/a	n/a	n/a	n/a	0.128(J)	n/a	146	1.23	n/a	n/a
(cont.)	4/17/2024	n/a	n/a	n/a	n/a	0.115(BJ)	n/a	139	2.52	n/a	n/a
	6/19/2024	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	10/15/2024	n/a	n/a	n/a	n/a	0.0985(J)	n/a	134	1.7	n/a	n/a
	4/10/2025	n/a	n/a	n/a	n/a	0.114(J)	n/a	145	2(B)	n/a	n/a
	10/15/2025	n/a	n/a	n/a	n/a	0.0746(J)	n/a	123	1.18	n/a	n/a
MW-110	downgradient										
	8/8/2023	<0.004	0.00884	0.253	<0.002	0.0609(J)	<0.001	82.8	0.862(J)	<0.002	0.000602(J)
	9/7/2023	<0.004	0.00537	0.256	<0.002	0.0694(J)	<0.001	86.8	0.932(J)	0.00197(BJ)	0.000691(J)
	10/10/2023	<0.004	0.00589	0.254	<0.002	0.062(J)	<0.001	79.6	0.954(J)	<0.002	0.000742(J)
	11/7/2023	<0.004	0.00421	0.249	<0.002	0.0641(J)	<0.001	82.7	1.52	<0.002	0.000669(J)
	12/5/2023	<0.004	0.00616	0.249	<0.002	0.0763(J)	<0.001	85.2	1.01	<0.002	0.000431(J)
	1/10/2024	<0.004	0.00414	0.224	<0.002	0.0548(J)	<0.001	88.9	1.01	<0.002	0.000405(J)
	2/7/2024	<0.004	0.0065	0.207	<0.002	0.0543(J)	<0.001	68.6	1.16	<0.002	0.000704(J)
	3/14/2024	<0.004	0.00667	0.212	<0.002	0.0542(BJ)	<0.001	68.7	1.19	<0.002	0.000485(J)
	4/18/2024	<0.004	0.00615	0.215	<0.002	0.0507(BJ)	<0.001	68.5	1.2(B)	<0.002	0.000303(J)
	5/16/2024	<0.004	0.0145	0.307	<0.002	0.0496(J)	<0.001	68	1.45	<0.002	0.000964(J)
	6/18/2024	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	10/15/2024	n/a	n/a	n/a	n/a	0.0626(J)	n/a	89.6	0.95(J)	n/a	n/a
	4/11/2025	n/a	n/a	n/a	n/a	0.0565(J)	n/a	75.5	1.06(B)	n/a	n/a
	7/1/2025	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	10/15/2025	n/a	n/a	n/a	n/a	0.0567(J)	n/a	87.2	1.14	n/a	n/a
MW-113	upgradient										
	1/28/2016	0.000378(J)	0.00151(J)	0.159	<0.002	0.102(J)	<0.001	84.7	3.61	0.000724(J)	<0.002
	4/28/2016	<0.002	0.00166(J)	0.152	<0.002	0.127(J)	<0.001	72.5	2.05	0.000774(J)	<0.002
	7/26/2016	<0.01	0.00706(J)	0.152	<0.002	0.144(J)	<0.002	69.8	0.856(J)	0.00194(J)	<0.01
	10/5/2016	<0.002	0.00114(J)	0.157	<0.002	0.0963(J)	<0.001	84.7	2.63	0.000598(BJ)	<0.002
	1/26/2017	<0.002	0.00093(J)	0.157(B)	<0.002	0.0891(J)	<0.001	88.9	5.81	<0.002	<0.002
	4/25/2017	<0.002	0.001(J)	0.159	<0.002	0.089(J)	<0.001	87.9	5.49	<0.002	<0.002
	7/18/2017	<0.002	0.00133(J)	0.157	<0.002	0.0982(BJ)	<0.001	82.5	3.96	<0.002	<0.002

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MW-113	9/19/2017	<0.002	0.00125(J)	0.149	<0.002	0.0998(J)	<0.001	84.1	2.19	<0.002	<0.002
(cont.)	4/10/2018	n/a	n/a	n/a	n/a	0.0899(BJ)	n/a	92	2.94	n/a	n/a
	9/25/2018	n/a	n/a	n/a	n/a	0.111(BJ)	n/a	90	2.84(B)	n/a	n/a
	5/14/2019	n/a	n/a	n/a	n/a	0.168(J)	n/a	87.2	1.58	n/a	n/a
	10/22/2019	n/a	n/a	n/a	n/a	0.0881(J)	n/a	75.9	1.73	n/a	n/a
	4/6/2020	n/a	n/a	n/a	n/a	0.131(J)	n/a	77.1	1.08	n/a	n/a
	10/7/2020	n/a	n/a	n/a	n/a	0.0879(J)	n/a	70.6	1.62	n/a	n/a
	4/13/2021	n/a	n/a	n/a	n/a	0.0673(J)	n/a	95.4	2.5	n/a	n/a
	6/29/2021	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	10/5/2021	n/a	n/a	n/a	n/a	0.0817(J)	n/a	67.5	0.877(J)	n/a	n/a
	4/5/2022	n/a	n/a	n/a	n/a	0.0747(J)	n/a	81.8	1.32	n/a	n/a
	10/4/2022	n/a	n/a	n/a	n/a	0.0747(J)	n/a	73.1	0.709(J)	n/a	n/a
	4/17/2023	n/a	n/a	n/a	n/a	0.084(J)	n/a	74.6	0.995(J)	n/a	n/a
	10/10/2023	n/a	n/a	n/a	n/a	0.0782(J)	n/a	64.5	0.751(J)	n/a	n/a
	4/17/2024	n/a	n/a	n/a	n/a	0.0728(BJ)	n/a	83.9	1.18	n/a	n/a
	10/15/2024	n/a	n/a	n/a	n/a	0.0769(J)	n/a	70.2	0.953(J)	n/a	n/a
	4/10/2025	n/a	n/a	n/a	n/a	0.0716(J)	n/a	75.8	0.907(J)	n/a	n/a
	10/15/2025	n/a	n/a	n/a	n/a	0.0758(J)	n/a	53.4	0.565(J)	n/a	n/a
MW-115	upgradient										
	11/10/2015	<0.002	0.000428(J)	0.187	<0.002	0.0473(J)	<0.001	109	2.14	<0.002	<0.002
	1/28/2016	0.000271(J)	0.001(J)	0.183	<0.002	0.0617(J)	<0.001	103	7.55(O)	0.000651(J)	<0.002
	4/28/2016	<0.002	0.000498(J)	0.211	<0.002	0.0863(J)	<0.001	115	1.83	0.000668(J)	<0.002
	7/26/2016	<0.01	<0.01	0.213	<0.002	0.0604(J)	<0.002	114	1.22	0.00197(J)	<0.01
	10/5/2016	<0.002	0.000385(J)	0.184	<0.002	0.0737(J)	<0.001	114	1.31	0.000866(BJ)	<0.002
	1/27/2017	<0.002	0.000425(J)	0.184(B)	<0.002	0.0602(J)	<0.001	110	1.77	0.000557(J)	<0.002
	4/25/2017	<0.002	0.000398(J)	0.182	<0.002	0.0641(J)	<0.001	106	2.71	<0.002	<0.002
	7/18/2017	<0.002	0.000376(J)	0.178	<0.002	0.0608(BJ)	<0.001	105	2.32	<0.002	<0.002
	9/19/2017	<0.002	0.000363(J)	0.181	<0.002	0.0609(J)	<0.001	116	0.835(J)	0.000628(J)	<0.002
	4/10/2018	n/a	n/a	n/a	n/a	0.0666(BJ)	n/a	111	1.34	n/a	n/a
	9/25/2018	n/a	n/a	n/a	n/a	0.0764(BJ)	n/a	121	1.18(B)	n/a	n/a

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MW-115	5/14/2019	n/a	n/a	n/a	n/a	0.0751(J)	n/a	128	0.598(J)	n/a	n/a
(cont.)	8/1/2019	n/a	n/a	n/a	n/a	n/a	n/a	125	n/a	n/a	n/a
	10/23/2019	n/a	n/a	n/a	n/a	0.0224(J)	n/a	114	1.23	n/a	n/a
	4/6/2020	n/a	n/a	n/a	n/a	0.0525(J)	n/a	108	0.922(J)	n/a	n/a
	10/7/2020	n/a	n/a	n/a	n/a	0.0704(J)	n/a	99.4	0.864(J)	n/a	n/a
	4/13/2021	n/a	n/a	n/a	n/a	0.0379(J)	n/a	117	0.789(J)	n/a	n/a
	10/5/2021	n/a	n/a	n/a	n/a	0.0655(J)	n/a	109	0.964(J)	n/a	n/a
	4/5/2022	n/a	n/a	n/a	n/a	0.0424(J)	n/a	102	0.976(J)	n/a	n/a
	10/3/2022	n/a	n/a	n/a	n/a	0.037(J)	n/a	109	0.742(J)	n/a	n/a
	4/17/2023	n/a	n/a	n/a	n/a	0.0416(J)	n/a	101	0.819(J)	n/a	n/a
	10/10/2023	n/a	n/a	n/a	n/a	0.0443(J)	n/a	107	1	n/a	n/a
	4/17/2024	n/a	n/a	n/a	n/a	0.0501(BJ)	n/a	107	1.07	n/a	n/a
	10/15/2024	n/a	n/a	n/a	n/a	0.053(J)	n/a	115	1.08	n/a	n/a
	4/10/2025	n/a	n/a	n/a	n/a	0.0561(J)	n/a	120	0.979(J)	n/a	n/a
	7/1/2025	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	10/15/2025	n/a	n/a	n/a	n/a	0.057(J)	n/a	108	0.859(J)	n/a	n/a
MW-116	downgradient										
	10/8/2015	0.000349(J)	0.00172(J)	0.16	<0.002	0.108(J)	<0.001	103	5.84	0.00116(J)	0.000365(J)
	1/28/2016	0.000248(J)	0.00144(J)	0.168	<0.002	0.139(J)	<0.001	111	5.67	0.000784(J)	<0.002
	4/28/2016	0.000264(J)	0.000886(J)	0.162	<0.002	0.142(J)	<0.001	106	4.8	<0.002	<0.002
	7/26/2016	<0.01	0.00653(J)	0.175	<0.002	0.115(J)	<0.002	109	5.2	0.0016(J)	<0.01
	10/6/2016	<0.002	0.00075(J)	0.159	<0.002	0.126(J)	<0.001	110	4.7	<0.002	<0.002
	1/25/2017	<0.002	0.000832(J)	0.178(B)	<0.002	0.141(J)	<0.001	118	4.85	0.000859(J)	<0.002
	4/27/2017	<0.002	0.000748(J)	0.159	<0.002	0.137(J)	<0.001	107	4.25	<0.002	<0.002
	7/19/2017	<0.002	0.000792(J)	0.163	<0.002	0.135(BJ)	<0.001	111	4.45	<0.002	<0.002
	9/20/2017	<0.002	0.000758(J)	0.161	<0.002	0.132(J)	<0.001	115	4.16	<0.002	0.000343(J)
	1/30/2018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	4/11/2018	n/a	n/a	n/a	n/a	0.111(BJ)	n/a	137	4.9	n/a	n/a
	7/9/2018	n/a	n/a	n/a	n/a	n/a	n/a	125	n/a	n/a	n/a
	9/26/2018	n/a	n/a	n/a	n/a	0.153(BJ)	n/a	130	4.13	n/a	n/a

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MW-116	5/16/2019	n/a	n/a	n/a	n/a	0.144(J)	n/a	93.2	1.66	n/a	n/a
(cont.)	10/23/2019	n/a	n/a	n/a	n/a	0.0829(J)	n/a	109	2.75	n/a	n/a
	4/8/2020	n/a	n/a	n/a	n/a	0.0768(J)	n/a	98.3	2.5	n/a	n/a
	10/9/2020	n/a	n/a	n/a	n/a	0.0772(J)	n/a	134	7.05(R)	n/a	n/a
	4/15/2021	n/a	n/a	n/a	n/a	0.0854(J)	n/a	144(R)	9.09(R)	n/a	n/a
	6/29/2021	n/a	n/a	n/a	n/a	n/a	n/a	169(R)	n/a	n/a	n/a
	10/6/2021	n/a	n/a	n/a	n/a	0.0973(J)	n/a	185(R)	11.2(R)	n/a	n/a
	12/14/2021	n/a	n/a	n/a	n/a	n/a	n/a	190(R)	n/a	n/a	n/a
	4/6/2022	n/a	n/a	n/a	n/a	0.0842(J)	n/a	81.4	2.64	n/a	n/a
	10/5/2022	n/a	n/a	n/a	n/a	0.0867(J)	n/a	94.1	4.14	n/a	n/a
	4/19/2023	n/a	n/a	n/a	n/a	0.0814(J)	n/a	97.1	5.41	n/a	n/a
	10/11/2023	n/a	n/a	n/a	n/a	0.0763(J)	n/a	91.4	5.71	n/a	n/a
	4/19/2024	n/a	n/a	n/a	n/a	0.0757(BJ)	n/a	104	3.54	n/a	n/a
	10/16/2024	n/a	n/a	n/a	n/a	0.0963(J)	n/a	136	2.15	n/a	n/a
	12/10/2024	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	4/14/2025	n/a	n/a	n/a	n/a	0.105(J)	n/a	163	4.72(B)	n/a	n/a
	7/2/2025	n/a	n/a	n/a	n/a	n/a	n/a	154	n/a	n/a	n/a
	10/21/2025	n/a	n/a	n/a	n/a	0.102(J)	n/a	134	3.06	n/a	n/a
MW-117	downgradient										
	10/8/2015	0.000269(J)	0.00141(J)	0.118	<0.002	0.0733(J)	<0.001	80.4	1.17	0.00067(J)	<0.002
	1/28/2016	<0.002	0.00168(J)	0.107	<0.002	0.096(J)	<0.001	75.2	1.61	0.000665(J)	<0.002
	4/27/2016	0.000892(J)	0.00133(J)	0.12	<0.002	0.13(J)	<0.001	76.9	1.3	<0.002	<0.002
	7/26/2016	<0.01	<0.01	0.124	<0.002	0.105(J)	<0.002	78.2	1.25	0.0015(J)	<0.01
	10/5/2016	<0.002	0.00115(J)	0.121	<0.002	0.115(J)	<0.001	85.5	1.53	<0.002	<0.002
	1/26/2017	<0.002	0.00124(J)	0.114(B)	<0.002	0.097(J)	<0.001	75.7	1.34	<0.002	<0.002
	4/25/2017	<0.002	0.0012(J)	0.113	<0.002	0.0835(J)	<0.001	76.7	1.48	<0.002	<0.002
	7/18/2017	<0.002	0.00124(J)	0.112	<0.002	0.102(BJ)	<0.001	77.6	1.36	<0.002	<0.002
	9/20/2017	<0.002	0.00132(J)	0.118	<0.002	0.106(J)	<0.001	84.2	0.747(J)	<0.002	<0.002
	4/11/2018	n/a	n/a	n/a	n/a	0.0952(BJ)	n/a	82.5	1.57	n/a	n/a
	9/27/2018	n/a	n/a	n/a	n/a	0.127(BJ)	n/a	89.7	1.25(B)	n/a	n/a

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MW-117	11/19/2018	n/a	n/a	n/a	n/a	n/a	n/a	85.7	n/a	n/a	n/a
(cont.)	5/15/2019	n/a	n/a	n/a	n/a	0.133(J)	n/a	98.3	1.25	n/a	n/a
	8/2/2019	n/a	n/a	n/a	n/a	n/a	n/a	102	n/a	n/a	n/a
	10/22/2019	n/a	n/a	n/a	n/a	0.061(J)	n/a	80.9	0.864(J)	n/a	n/a
	4/7/2020	n/a	n/a	n/a	n/a	0.0759(J)	n/a	98.1	1.33	n/a	n/a
	6/22/2020	n/a	n/a	n/a	n/a	n/a	n/a	90.1	n/a	n/a	n/a
	10/8/2020	n/a	n/a	n/a	n/a	0.0721(J)	n/a	84.1	0.793(J)	n/a	n/a
	4/13/2021	n/a	n/a	n/a	n/a	0.0705(J)	n/a	98.8	0.976(J)	n/a	n/a
	6/29/2021	n/a	n/a	n/a	n/a	n/a	n/a	83.7	n/a	n/a	n/a
	10/6/2021	n/a	n/a	n/a	n/a	0.0677(J)	n/a	88.8	0.921(J)	n/a	n/a
	12/14/2021	n/a	n/a	n/a	n/a	n/a	n/a	82	n/a	n/a	n/a
	4/6/2022	n/a	n/a	n/a	n/a	0.0738(J)	n/a	93.1	0.875(J)	n/a	n/a
	6/20/2022	n/a	n/a	n/a	n/a	n/a	n/a	92.2	n/a	n/a	n/a
	10/5/2022	n/a	n/a	n/a	n/a	0.0725(J)	n/a	88	0.953(J)	n/a	n/a
	4/19/2023	n/a	n/a	n/a	n/a	0.0745(J)	n/a	90	0.808(J)	n/a	n/a
	10/12/2023	n/a	n/a	n/a	n/a	0.0736(J)	n/a	89	1.33	n/a	n/a
	12/6/2023	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	4/19/2024	n/a	n/a	n/a	n/a	0.0744(BJ)	n/a	108	1.69	n/a	n/a
	6/19/2024	n/a	n/a	n/a	n/a	n/a	n/a	98.7	n/a	n/a	n/a
	10/17/2024	n/a	n/a	n/a	n/a	0.078(J)	n/a	92.6	1.06	n/a	n/a
	4/15/2025	n/a	n/a	n/a	n/a	0.0711(J)	n/a	108	1.25(B)	n/a	n/a
	10/21/2025	n/a	n/a	n/a	n/a	0.0726(J)	n/a	92.4	2.39	n/a	n/a
	12/16/2025	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.902(J)	n/a	n/a
MW-118	downgradient										
	10/9/2015	0.000406(J)	0.00158(J)	0.162	<0.002	0.0916(J)	0.000162(J)	75.1	1.08	0.000621(J)	<0.002
	1/28/2016	<0.002	0.00146(J)	0.149	<0.002	0.121(J)	<0.001	73.4	1.59	0.000624(J)	<0.002
	4/28/2016	0.000231(J)	0.00102(J)	0.205	<0.002	0.123(J)	<0.001	94.1	1.8	<0.002	<0.002
	7/26/2016	<0.01	<0.01	0.202	<0.002	0.101(J)	<0.002	85.4	2.13	0.00163(J)	<0.01
	10/5/2016	<0.002	0.000771(J)	0.166	<0.002	0.103(J)	<0.001	78.1	1.48	0.000554(BJ)	<0.002
	1/26/2017	<0.002	0.000893(J)	0.159(B)	<0.002	0.106(J)	<0.001	74.7	1.13(B)	<0.002	<0.002

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MW-118	4/26/2017	<0.002	0.000854(J)	0.149	<0.002	0.0994(J)	<0.001	71.1	1.47	<0.002	<0.002
(cont.)	7/20/2017	<0.002	0.00075(J)	0.156	<0.002	0.104(BJ)	<0.001	74.9	1.62	<0.002	<0.002
	9/20/2017	<0.002	0.000786(J)	0.161	<0.002	0.104(J)	<0.001	85.1	1.17	<0.002	<0.002
	4/11/2018	n/a	n/a	n/a	n/a	0.0949(BJ)	n/a	71.8	1.36	n/a	n/a
	7/10/2018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	9/27/2018	n/a	n/a	n/a	n/a	0.113(BJ)	n/a	80.6	1.33(B)	n/a	n/a
	5/15/2019	n/a	n/a	n/a	n/a	0.125(J)	n/a	76.4	1.44	n/a	n/a
	8/2/2019	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	10/22/2019	n/a	n/a	n/a	n/a	0.0459(J)	n/a	91.6	1.45	n/a	n/a
	4/8/2020	n/a	n/a	n/a	n/a	0.0739(J)	n/a	82.9	1.62	n/a	n/a
	10/8/2020	n/a	n/a	n/a	n/a	0.0596(J)	n/a	84.8	1.13	n/a	n/a
	4/15/2021	n/a	n/a	n/a	n/a	0.0663(J)	n/a	94.1	0.911(J)	n/a	n/a
	10/6/2021	n/a	n/a	n/a	n/a	0.0656(J)	n/a	82.9	1.15	n/a	n/a
	4/7/2022	n/a	n/a	n/a	n/a	0.0573(J)	n/a	85.2	0.926(J)	n/a	n/a
	10/5/2022	n/a	n/a	n/a	n/a	0.0628(J)	n/a	87.5	1.31	n/a	n/a
	4/18/2023	n/a	n/a	n/a	n/a	0.0664(J)	n/a	71.8	0.663(J)	n/a	n/a
	10/11/2023	n/a	n/a	n/a	n/a	0.0585(J)	n/a	86.4	1.14	n/a	n/a
	4/18/2024	n/a	n/a	n/a	n/a	0.0632(BJ)	n/a	71.9	0.843(J)	n/a	n/a
	10/17/2024	n/a	n/a	n/a	n/a	0.0733(J)	n/a	81.1	1.07	n/a	n/a
	4/15/2025	n/a	n/a	n/a	n/a	0.0638(J)	n/a	76.5	0.905(J)	n/a	n/a
	10/20/2025	n/a	n/a	n/a	n/a	0.0879(J)	n/a	104	1.59	n/a	n/a
	12/16/2025	n/a	n/a	n/a	n/a	n/a	n/a	97.2	n/a	n/a	n/a
MW-119	downgradient										
	1/25/2017	<0.002	0.000493(J)	0.157(B)	<0.002	0.0922(J)	<0.001	104	2.62	0.000775(J)	0.00144(J)
	4/27/2017	<0.002	0.000669(J)	0.163	<0.002	0.108(J)	<0.001	106	2.8	<0.002	0.00132(J)
	7/20/2017	<0.002	0.000566(J)	0.145	<0.002	0.0936(BJ)	<0.001	103	6.84(O)	<0.002	0.00186(J)
	9/20/2017	<0.002	0.000362(J)	0.123	<0.002	0.0798(J)	<0.001	92.7	2.3	<0.002	0.00177(J)
	1/30/2018	n/a	n/a	n/a	n/a	0.0805(BJ)	n/a	99.3	2.07	n/a	n/a
	4/11/2018	n/a	n/a	n/a	n/a	0.095(BJ)	n/a	85.9	2.15	n/a	n/a
	9/27/2018	n/a	n/a	n/a	n/a	0.103(BJ)	n/a	99	2.3(B)	n/a	n/a

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MW-119	11/20/2018	n/a	n/a	n/a	n/a	0.0826(BJ)	n/a	94	1.96	n/a	n/a
(cont.)	12/18/2018	<0.002	0.000485(J)	0.179	<0.002	n/a	<0.001	n/a	n/a	<0.002	0.00167(J)
	2/18/2019	<0.002	0.000352(J)	0.154	<0.002	0.11(J)	0.000194(J)	103	2.27	<0.002	0.00118(J)
	5/16/2019	<0.002	0.000512(J)	0.199	<0.002	0.109(J)	<0.001	135	2.86	<0.002	0.00174(J)
	8/2/2019	<0.002	0.000494(J)	0.141	<0.002	n/a	<0.001	97.4	n/a	<0.002	0.00289
	10/22/2019	n/a	n/a	n/a	n/a	0.048(J)	n/a	110	2.86	n/a	n/a
	4/8/2020	n/a	n/a	n/a	n/a	0.0639(J)	n/a	109	2.45	n/a	n/a
	10/8/2020	n/a	n/a	n/a	n/a	0.0588(J)	n/a	109	2.22	n/a	n/a
	4/15/2021	n/a	n/a	n/a	n/a	0.0687(J)	n/a	115	2.43	n/a	n/a
	10/7/2021	n/a	n/a	n/a	n/a	0.0594(J)	n/a	104	2.4	n/a	n/a
	4/7/2022	n/a	n/a	n/a	n/a	0.067(J)	n/a	107	1.82	n/a	n/a
	10/5/2022	n/a	n/a	n/a	n/a	0.0671(J)	n/a	119	1.98	n/a	n/a
	12/16/2022	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	4/18/2023	n/a	n/a	n/a	n/a	0.0642(J)	n/a	95.8	1.26	n/a	n/a
	10/11/2023	n/a	n/a	n/a	n/a	0.0616(J)	n/a	119	2.13	n/a	n/a
	4/19/2024	n/a	n/a	n/a	n/a	0.0557(BJ)	n/a	89.5	1.15	n/a	n/a
	10/16/2024	n/a	n/a	n/a	n/a	0.0699(J)	n/a	111	1.07	n/a	n/a
	4/14/2025	n/a	n/a	n/a	n/a	0.0538(J)	n/a	86.7	1.04(B)	n/a	n/a
	10/20/2025	n/a	n/a	n/a	n/a	0.0534(J)	n/a	91.5	1.32	n/a	n/a
MW-120	downgradient										
	7/6/2023	<0.004	).000593(BJ	0.144	<0.002	0.0563(J)	<0.001	65.7	1.22	<0.002	).000153(BJ
	8/8/2023	<0.004	0.000686(J)	0.154	<0.002	0.0511(J)	<0.001	68.7	1.03	<0.002	0.000123(J)
	9/7/2023	<0.004	0.000656(J)	0.142	<0.002	0.0511(J)	<0.001	70	0.982(J)	<0.002	9.96E-05(J)
	4/18/2024	<0.004	0.000532(J)	0.184	<0.002	0.058(BJ)	<0.001	83.3	2.13(B)	<0.002	7.28E-05(J)
	5/16/2024	<0.004	0.000571(J)	0.222	<0.002	0.0604(J)	<0.001	95.4	2.55	<0.002	<0.002
	6/18/2024	<0.004	0.00056(J)	0.186	<0.002	0.0696(J)	<0.001	87.3	2.95(Q)	<0.002	<0.002
	7/18/2024	<0.004	0.000671(J)	0.159	<0.002	0.0586(J)	<0.001	71.7	1.26	<0.002	<0.002
	8/15/2024	<0.004	0.000752(J)	0.154	<0.002	0.0534(J)	<0.001	68.6	1.09	<0.002	<0.002
	9/20/2024	<0.004	0.000764(J)	0.147	<0.002	0.054(J)	<0.001	68.1	1.06	<0.002	9.24E-05(J)
	10/16/2024	n/a	n/a	n/a	n/a	0.0605(J)	n/a	61.3	0.983(J)	n/a	n/a

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MW-120	4/11/2025	n/a	n/a	n/a	n/a	0.0539(J)	n/a	77.2	2.29(B)	n/a	n/a
(cont.)	10/20/2025	n/a	n/a	n/a	n/a	0.043(J)	n/a	60.1	1.32	n/a	n/a
MW-121	downgradient										
	7/6/2023	<0.004	).000927(BJ	0.104	<0.002	0.0501(J)	<0.001	38.7	0.966(J)	<0.002	3.71E-05(BJ
	8/8/2023	<0.004	0.00077(J)	0.101	<0.002	0.05(J)	<0.001	35.7	0.842(J)	<0.002	0.000128(J)
	9/7/2023	<0.004	0.000916(J)	0.106	<0.002	0.0381(J)	<0.001	41.3	1.12	0.00145(BJ)	<0.002
	10/10/2023	<0.004	0.00107(J)	0.119	<0.002	0.0386(J)	<0.001	43.1	1.32	<0.002	<0.002
	11/7/2023	<0.004	0.000891(J)	0.119	<0.002	0.0328(J)	<0.001	43.4	4.31	<0.002	<0.002
	12/6/2023	<0.004	0.000925(J)	0.125	<0.002	0.0467(J)	<0.001	44.9	1.44	<0.002	8.89E-05(J)
	1/10/2024	<0.004	0.00114(J)	0.0856	<0.002	0.0244(J)	<0.001	34.9	1.08	<0.002	<0.002
	2/7/2024	<0.004	0.00116(J)	0.0762	<0.002	0.0297(J)	<0.001	30.2	1.03	<0.002	<0.002
	3/14/2024	<0.004	0.00118(J)	0.0719	<0.002	0.03(BJ)	<0.001	26.8	1.2	<0.002	0.000182(J)
	4/18/2024	<0.004	0.00105(J)	0.0666	<0.002	0.0236(BJ)	<0.001	24.7	0.924(BJ)	<0.002	<0.002
	6/18/2024	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	10/17/2024	n/a	n/a	n/a	n/a	0.0628(J)	n/a	41.2	1.02	n/a	n/a
	4/14/2025	n/a	n/a	n/a	n/a	<0.2	n/a	36.3	0.608(J)	n/a	n/a
	10/20/2025	n/a	n/a	n/a	n/a	0.058(J)	n/a	66.4	2.17	n/a	n/a
	12/16/2025	n/a	n/a	n/a	n/a	n/a	n/a	45.3	n/a	n/a	n/a

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MW-101	downgradient										
	10/7/2015	0.281	<0.002	0.0147(J)	<0.0002	<0.005	0.601	0.489	0.00831	12.4	401
	1/28/2016	0.274	<0.002	0.0117(J)	<0.0002	<0.005	0.324(J)	0.604	0.00793	11.4	421(B)
	4/27/2016	0.283	<0.002	0.0134(J)	<0.0002	<0.005	0.712(J)	0.642	0.0143	19.9	437
	7/26/2016	0.241	<0.005	0.0113(J)	<0.0002	<0.005	0.734(J)	1.1	0.0106	12.8	448(B)
	10/6/2016	0.267	<0.002	0.0121(J)	<0.0002	<0.005	0.242(J)	0.683	0.00565	8.44	387
	1/25/2017	0.3	<0.002	0.0118(J)	<0.0002	<0.005	0.031(J)	0.573	0.00326	11.5	381
	4/26/2017	0.273	<0.002	<0.135	<0.0002	<0.045	0(J)	0.569	0.00299	9.57	407
	7/20/2017	0.331	<0.002	0.00835(J)	<0.0002	<0.005	0.033(J)	0.687	0.000984(J)	13.5	414
	9/20/2017	0.328	<0.002	<0.015	<0.0002	0.00289(J)	1.17	0.771	0.000402(J)	9.68	385
	12/11/2017	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	4/12/2018	0.307	n/a	n/a	n/a	n/a	n/a	n/a	n/a	17.4	420
	9/26/2018	0.29(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	14.6	421
	5/16/2019	0.263(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	9.17	392
	10/23/2019	0.264	n/a	n/a	n/a	n/a	n/a	n/a	n/a	11.9	404
	4/8/2020	0.279	n/a	n/a	n/a	n/a	n/a	n/a	n/a	10.3	362
	10/9/2020	0.309	n/a	n/a	n/a	n/a	n/a	n/a	n/a	9.91	389
	4/15/2021	0.385	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5.73	335
	6/29/2021	0.307	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	10/7/2021	0.312	n/a	n/a	n/a	n/a	n/a	n/a	n/a	10.2	380
	4/7/2022	0.228	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7.63	388
	10/5/2022	0.258	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7.93	388
	4/19/2023	0.243	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7.48	376
	10/11/2023	0.283	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6.92	376(B)
	4/19/2024	0.191	n/a	n/a	n/a	n/a	n/a	n/a	n/a	12.4	368
	10/16/2024	0.292	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3.81(J)	357
	4/14/2025	0.22	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3.75(J)	363
	10/21/2025	0.302	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5.33	348(B)
MW-102	downgradient										
	11/10/2015	0.16	<0.002	0.0177	<0.0002	<0.005	0.339(J)	0.588	0.000656(J)	82.3	434

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MW-102	1/28/2016	0.157	<0.002	0.0148(J)	<0.0002	<0.005	0.116(J)	0.777	0.00687	85.9	470
(cont.)	4/27/2016	0.154	<0.002	0.017	<0.0002	<0.005	1.32	0.78	0.00397	103	478
	7/26/2016	0.15	<0.005	0.0144(J)	<0.0002	<0.005	0.336(J)	1.25	<0.01	88.1	474(B)
	10/6/2016	0.158	<0.002	0.0169	<0.0002	<0.005	0.439(J)	0.837	<0.002	83.2	458
	1/25/2017	0.182	<0.002	0.0172	<0.0002	<0.005	0.69	0.541	0.00262	88.8	435
	4/27/2017	0.175	<0.002	0.017	<0.0002	<0.005	2	0.695	0.00232	91	504
	7/19/2017	0.207	<0.002	0.0105(J)	<0.0002	<0.005	2.07	0.872	0.00119(J)	85.4	461
	9/20/2017	0.194	<0.002	<0.015	<0.0002	<0.005	0.193(J)	1.12	<0.002	88.7	454
	4/11/2018	0.206	n/a	n/a	n/a	n/a	n/a	n/a	n/a	46.7	472
	7/9/2018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	9/27/2018	0.183(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	88.6	453
	5/16/2019	0.196(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	75.4	466
	10/23/2019	0.201	n/a	n/a	n/a	n/a	n/a	n/a	n/a	85.6	461
	4/7/2020	0.199	n/a	n/a	n/a	n/a	n/a	n/a	n/a	84.7	461
	10/9/2020	0.178	n/a	n/a	n/a	n/a	n/a	n/a	n/a	96.1	438
	4/15/2021	0.21	n/a	n/a	n/a	n/a	n/a	n/a	n/a	79.4	446
	10/6/2021	0.215	n/a	n/a	n/a	n/a	n/a	n/a	n/a	95.3	415
	4/6/2022	0.142(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	79	442
	10/5/2022	0.174	n/a	n/a	n/a	n/a	n/a	n/a	n/a	93.4	439
	4/19/2023	0.158	n/a	n/a	n/a	n/a	n/a	n/a	n/a	63.5	390
	10/12/2023	0.168	n/a	n/a	n/a	n/a	n/a	n/a	n/a	74.6	411(B)
	4/19/2024	0.156	n/a	n/a	n/a	n/a	n/a	n/a	n/a	61	402
	10/16/2024	0.243	n/a	n/a	n/a	n/a	n/a	n/a	n/a	128	542
	12/10/2024	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	78.4	446
	4/14/2025	0.142(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	172	644
	7/2/2025	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	258	852
	10/21/2025	0.176	n/a	n/a	n/a	n/a	n/a	n/a	n/a	209	677(B)
MW-103	downgradient										
	10/7/2015	0.198	0.000362(J)	0.025	<0.0002	<0.005	0.93	0.634	0.00674	95	591
	1/28/2016	0.188	<0.002	0.0197	<0.0002	<0.005	0.242(J)	0.627	0.00868	60.1	539(B)

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MW-103	4/27/2016	0.17	<0.002	0.0214	<0.0002	<0.005	0.735	0.558	0.00272	62	517
(cont.)	7/26/2016	0.163	<0.005	0.0194	<0.0002	<0.005	1.83	1.03	0.0115	60.9	539(B)
	10/6/2016	0.201	0.000296(J)	0.0192	<0.0002	<0.005	0.547(J)	0.828	0.000541(J)	54.5	518
	1/26/2017	0.223	<0.002	0.019	<0.0002	<0.005	0.402(J)	0.533	0.000759(J)	52	477
	4/27/2017	0.2	<0.002	0.0222	<0.0002	<0.005	1.28	0.625	<0.002	49.8	513
	7/20/2017	0.24	<0.002	0.015	<0.0002	<0.005	0.735(J)	0.619	<0.002	52.2	506
	9/20/2017	0.24	<0.002	0.0192	<0.0002	<0.005	0.625(J)	0.678	<0.002	48.2	496
	4/11/2018	0.163	n/a	n/a	n/a	n/a	n/a	n/a	n/a	80.6	468
	9/26/2018	0.217(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	32.8	440
	5/15/2019	0.213(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	23.4	396
	10/22/2019	0.253	n/a	n/a	n/a	n/a	n/a	n/a	n/a	24.4	384
	4/8/2020	0.219	n/a	n/a	n/a	n/a	n/a	n/a	n/a	9.93	318
	10/8/2020	0.234	n/a	n/a	n/a	n/a	n/a	n/a	n/a	15	319
	4/15/2021	0.258	n/a	n/a	n/a	n/a	n/a	n/a	n/a	11.4	294
	10/7/2021	0.256	n/a	n/a	n/a	n/a	n/a	n/a	n/a	12.6	324
	4/7/2022	0.128(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7.84	278
	10/5/2022	0.188	n/a	n/a	n/a	n/a	n/a	n/a	n/a	11.8	285
	4/18/2023	0.157	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7.82	322
	10/11/2023	0.201	n/a	n/a	n/a	n/a	n/a	n/a	n/a	15.9	335(B)
	4/19/2024	0.13(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	8.8	308
	10/16/2024	0.242(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	13.6	306
	4/14/2025	0.185	n/a	n/a	n/a	n/a	n/a	n/a	n/a	39.7	383
	10/20/2025	0.229	n/a	n/a	n/a	n/a	n/a	n/a	n/a	20.7	361(B)
MW-104	downgradient										
	8/8/2023	0.257	<0.002	0.00878	<0.0002	0.000768(J)	1.63	0.759	0.00636	3.42(J)	296
	9/7/2023	0.28	<0.002	0.00728	<0.0002	0.00183(J)	1.29	0.492	0.00416	3.57(J)	309
	10/11/2023	0.307	<0.002	0.00606	<0.0002	0.00378(J)	1.07(B)	0.358(B)	0.000662(J)	4.52(J)	320
	11/7/2023	0.251	<0.002	0.00638	<0.0002	0.00405(J)	0.463(BJ)	0.211(BJ)	0.000576(J)	3.13(J)	349
	12/5/2023	0.242	<0.002	0.00596	<0.0002	0.00412(J)	0.961	0.41	0.000564(J)	3.32(J)	344
	1/10/2024	0.322	<0.002	0.00476	<0.0002	0.00348(J)	<0.659	0.323	0.000722(J)	5.28	334(Q)

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MW-104	2/7/2024	0.325	<0.002	0.00673	<0.0002	0.00214(J)	0.929	0.411	0.0046	5.57	318
(cont.)	3/14/2024	0.259	<0.002	0.0073	<0.0002	0.00131(J)	1.2	0.353	0.00616	3.48(J)	315
	4/18/2024	0.199	<0.002	0.0081	<0.0002	0.00174(BJ)	1.45	0.642	0.00386	3.77(J)	341(B)
	5/16/2024	0.245(B)	<0.002	0.00932	<0.0002	0.000529(J)	1.88	0.569	0.00604	3.96(J)	292
	6/18/2024	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	321
	10/15/2024	0.334(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3.82(J)	315
	4/11/2025	0.255	n/a	n/a	n/a	n/a	n/a	n/a	n/a	8.52	326
	7/1/2025	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6.69	n/a
	10/20/2025	0.286	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6.72	333(B)
MW-108	upgradient										
	1/28/2016	0.158	<0.002	0.0201	<0.0002	<0.005	1.24	0.946	0.00271	44.4	555
	4/28/2016	0.134	<0.002	0.0223	<0.0002	<0.005	0.506(J)	0.74	0.00184(J)	45.2	638(B)
	7/26/2016	0.144	<0.005	0.0167	<0.0002	<0.005	1.65(J)	1.14	<0.01	39.3	475(B)
	10/6/2016	0.169	<0.002	0.0183	<0.0002	<0.005	1.07	0.687	0.00214	41.4	539
	1/26/2017	0.202	<0.002	0.0186	<0.0002	<0.005	0.454(J)	0.541	0.00178(J)	51.6	513
	4/25/2017	0.167	<0.002	0.0197	<0.0002	<0.005	0.922	0.71	0.00337	45.7	488
	7/18/2017	0.191	<0.002	0.0122(J)	<0.0002	<0.005	0.051(J)	0.651	0.00041(J)	39.4	576
	9/19/2017	0.199	<0.002	0.0191	<0.0002	0.00169(J)	0.288(J)	0.694	0.00079(J)	43.8	578
	4/10/2018	0.177	n/a	n/a	n/a	n/a	n/a	n/a	n/a	44.5	582
	9/25/2018	0.188(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	52.2	537
	5/14/2019	0.184(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	34.5	529
	8/1/2019	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	10/22/2019	0.205	n/a	n/a	n/a	n/a	n/a	n/a	n/a	32.9	528
	4/6/2020	0.185	n/a	n/a	n/a	n/a	n/a	n/a	n/a	33.8	557
	10/7/2020	0.185	n/a	n/a	n/a	n/a	n/a	n/a	n/a	42.4	515
	4/13/2021	0.216	n/a	n/a	n/a	n/a	n/a	n/a	n/a	36.8	541
	10/5/2021	0.203	n/a	n/a	n/a	n/a	n/a	n/a	n/a	23.4	505
	4/5/2022	0.138(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	24	478
	10/4/2022	0.164	n/a	n/a	n/a	n/a	n/a	n/a	n/a	17	471
	1/11/2023	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

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MW-108	4/18/2023	0.161	n/a	n/a	n/a	n/a	n/a	n/a	n/a	34.8	493
(cont.)	4/17/2024	0.111(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	71.4	498(B)
	6/19/2024	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	67.1	n/a
	10/15/2024	0.235(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	46.6	472
	4/10/2025	0.176	n/a	n/a	n/a	n/a	n/a	n/a	n/a	35.2	463
	10/15/2025	0.132(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	15.2	426(B)
MW-110	downgradient										
	8/8/2023	0.176	<0.002	0.00541	<0.0002	0.000934(J)	0.451(J)	0.396(J)	0.000421(J)	4.72(J)	325
	9/7/2023	0.198	0.00128(BJ)	0.00509	<0.0002	0.000697(J)	2.41	0.607	0.000407(J)	4.79(J)	326
	10/10/2023	0.205	<0.002	0.00523	<0.0002	0.000571(J)	0.941(B)	0.462(B)	<0.002	6.12	312
	11/7/2023	0.163	<0.002	0.00643	<0.0002	0.000914(J)	0.91(B)	0.283(B)	0.000686(J)	4.29(J)	332
	12/5/2023	0.168	<0.002	0.00546	<0.0002	0.000869(J)	1.04	0.318	<0.002	4.39(J)	316
	1/10/2024	0.236	<0.002	0.00454	<0.0002	0.000958(J)	1.52	0.479	<0.002	5.81	326(Q)
	2/7/2024	0.261	<0.002	0.00559	<0.0002	0.000883(J)	1.2	0.469	<0.002	7.78	286
	3/14/2024	0.123(J)	<0.002	0.00581	<0.0002	<0.005	0.335(J)	0.338(J)	<0.002	4.95(J)	271
	4/18/2024	0.139(J)	<0.002	0.00672	<0.0002	<0.005	1.31	0.388	0.000511(J)	5.45	300(B)
	5/16/2024	0.313(B)	<0.002	0.00739	<0.0002	0.000538(J)	0.695(J)	0.422(J)	<0.002	5.72	269
	6/18/2024	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	293
	10/15/2024	0.256(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6.05	340
	4/11/2025	0.185	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7.25	326
	7/1/2025	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	326
	10/15/2025	0.193	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6.26	342(B)
MW-113	upgradient										
	1/28/2016	0.0808(J)	<0.002	0.00896(J)	<0.0002	<0.005	0.584(J)	0.578	0.00269	11	320(B)
	4/28/2016	0.0604(J)	<0.002	0.0102(J)	<0.0002	<0.005	0.441(J)	0.759	0.00193(J)	8.99	321(B)
	7/26/2016	0.057(J)	<0.005	<0.015	<0.0002	<0.005	1.73	1.14	<0.01	4.97(J)	281(B)
	10/5/2016	0.0827(J)	<0.002	0.00567(J)	<0.0002	<0.005	2.08(B)	1.2	0.00234	9.51	323
	1/26/2017	0.0901(J)	<0.002	0.00709(J)	<0.0002	<0.005	0.819	0.586	<0.002	13.3	332
	4/25/2017	0.0944(J)	<0.002	0.00619(J)	<0.0002	<0.005	0.156(J)	0.565	0.00107(J)	11.8	339
	7/18/2017	0.119	<0.002	<0.015	<0.0002	<0.005	0.092(J)	0.638	0.000678(J)	10.9	321

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MW-113	9/19/2017	0.117	<0.002	0.0059(J)	<0.0002	<0.005	0.746(J)	0.694	0.00236	9.45	326
(cont.)	4/10/2018	0.0562(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	10.1	340
	9/25/2018	0.114(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	9.81	337
	5/14/2019	0.12(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3.15(J)	342
	10/22/2019	0.11	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4.88(J)	307
	4/6/2020	0.0943(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3.61(J)	332
	10/7/2020	0.106(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4.61(J)	274
	4/13/2021	0.102(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	9.83	372
	6/29/2021	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	303
	10/5/2021	0.139(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3.75(J)	275
	4/5/2022	0.0846(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5.7	326
	10/4/2022	0.0828(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4.02(J)	291
	4/17/2023	0.0907(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4.57(J)	293
	10/10/2023	0.0982(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3.64(J)	247(B)
	4/17/2024	0.0704(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	9.01	322
	10/15/2024	0.147(BJ)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4.56(J)	288
	4/10/2025	0.0957(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6.24	279
	10/15/2025	0.0875(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.8(J)	236(B)
MW-115	upgradient										
	11/10/2015	0.23	<0.002	0.00965(J)	<0.0002	<0.005	0.477(J)	0.591	0.00821	8.23	363
	1/28/2016	0.201	<0.002	0.00722(J)	<0.0002	<0.005	0.71	0.699	0.0113	14.8(O)	376
	4/28/2016	0.179	<0.002	0.00781(J)	<0.0002	<0.005	0.507(J)	0.589	0.0041	5.63	443(B)
	7/26/2016	0.2	<0.005	0.00633(J)	<0.0002	<0.005	0.761(J)	1.37	<0.01	4.79(J)	399(B)
	10/5/2016	0.218	<0.002	0.00664(J)	<0.0002	<0.005	0.892(B)	0.599	0.00193(J)	4.59(J)	446
	1/27/2017	0.244	<0.002	0.00789(J)	<0.0002	<0.005	0.524(J)	0.545	0.00636	6.52	406
	4/25/2017	0.203	<0.002	0.00835(J)	<0.0002	<0.005	0.624(J)	0.502	0.00304	6.75	385
	7/18/2017	0.238	<0.002	0.00579(J)	<0.0002	<0.005	0.534(J)	0.778	0.00263	7.1	369
	9/19/2017	0.243	<0.002	0.00746(J)	<0.0002	<0.005	0.134(J)	0.601	0.00213	5.37	403
	4/10/2018	0.209	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5.81	368
	9/25/2018	0.216(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5(J)	417

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Well ID	Date	Fluoride (mg/L)	Lead (mg/L)	Lithium (mg/L)	Mercury (mg/L)	Molybdenum (mg/L)	Radium (pCi/L)	Radium Error Level (pCi/L)	Selenium (mg/L)	Sulfate (mg/L)	TDS (mg/L)
MW-115	5/14/2019	0.184(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5.63	440
(cont.)	8/1/2019	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	10/23/2019	0.22	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5.83	411
	4/6/2020	0.192	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5.37	398
	10/7/2020	0.18	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2.97(J)	334
	4/13/2021	0.239	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5.67	441
	10/5/2021	0.225	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3.7(J)	379
	4/5/2022	0.165	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4.95(J)	374
	10/3/2022	0.208	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3.68(J)	377
	4/17/2023	0.205	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5.19	351
	10/10/2023	0.207	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4.96(J)	383(B)
	4/17/2024	0.237	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4.85(BJ)	369
	10/15/2024	0.275(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4.68(J)	414
	4/10/2025	0.21	n/a	n/a	n/a	n/a	n/a	n/a	n/a	11.3	407
	7/1/2025	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6.89	n/a
	10/15/2025	0.187	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2.21(J)	391(B)
MW-116	downgradient										
	10/8/2015	0.173	<0.002	0.015	<0.0002	<0.005	0.553(J)	0.594	0.00142(J)	45.1	367
	1/28/2016	0.165	<0.002	0.0133(J)	<0.0002	<0.005	0.219(J)	0.566	0.00387	78	426
	4/28/2016	0.148	<0.002	0.0136(J)	<0.0002	<0.005	0.16(J)	0.765	0.00233	83.5	461(B)
	7/26/2016	0.148	<0.005	0.0108(J)	<0.0002	<0.005	0.086(J)	1.52	0.00841(J)	81.8	395(B)
	10/6/2016	0.172	<0.002	0.0132(J)	<0.0002	<0.005	0.194(J)	0.489	0.00208	86.5	443
	1/25/2017	0.201	0.000358(J)	0.0151	<0.0002	<0.005	1.53	0.57	0.0026	89.2	467
	4/27/2017	0.172	<0.002	0.0126(J)	<0.0002	<0.005	0.046(J)	0.63	0.00181(J)	95.2	443
	7/19/2017	0.208	<0.002	0.00739(J)	<0.0002	<0.005	0.132(J)	0.615	0.00119(J)	98.4	435
	9/20/2017	0.207	<0.002	0.0119(J)	<0.0002	<0.005	0.285(J)	0.718	0.000807(J)	94.2	451
	1/30/2018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	35.5	n/a
	4/11/2018	0.166	n/a	n/a	n/a	n/a	n/a	n/a	n/a	113	511
	7/9/2018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	9/26/2018	0.183(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	97.5	500

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MW-116	5/16/2019	0.189(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	27	349
(cont.)	10/23/2019	0.216	n/a	n/a	n/a	n/a	n/a	n/a	n/a	63.1	417
	4/8/2020	0.184	n/a	n/a	n/a	n/a	n/a	n/a	n/a	38.7	365
	10/9/2020	0.187	n/a	n/a	n/a	n/a	n/a	n/a	n/a	103	537(R)
	4/15/2021	0.226	n/a	n/a	n/a	n/a	n/a	n/a	n/a	126(R)	541(R)
	6/29/2021	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	10/6/2021	0.214	n/a	n/a	n/a	n/a	n/a	n/a	n/a	166(R)	670(R)
	12/14/2021	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	200(R)	730(R)
	4/6/2022	0.132(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	55.6	338
	10/5/2022	0.194	n/a	n/a	n/a	n/a	n/a	n/a	n/a	57.1	360
	4/19/2023	0.156	n/a	n/a	n/a	n/a	n/a	n/a	n/a	50.6	377
	10/11/2023	0.201	n/a	n/a	n/a	n/a	n/a	n/a	n/a	50.4	361(B)
	4/19/2024	0.197	n/a	n/a	n/a	n/a	n/a	n/a	n/a	50.4	392
	10/16/2024	<0.15	n/a	n/a	n/a	n/a	n/a	n/a	n/a	42.5	533
	12/10/2024	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	480
	4/14/2025	0.204	n/a	n/a	n/a	n/a	n/a	n/a	n/a	81.8	576
	7/2/2025	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	570
	10/21/2025	0.174	n/a	n/a	n/a	n/a	n/a	n/a	n/a	55.6	521(B)
MW-117	downgradient										
	10/8/2015	0.077(J)	0.000674(J)	0.00662(J)	<0.0002	<0.005	0.425(J)	0.508	0.00155(J)	5.21	281
	1/28/2016	0.126	<0.002	<0.015	<0.0002	<0.005	0.289(J)	0.499	0.00471	6.32	271(B)
	4/27/2016	0.101	0.000295(J)	0.00588(J)	<0.0002	<0.005	0.196(J)	0.784	0.00229	6.19	272
	7/26/2016	0.0971(J)	<0.005	<0.015	<0.0002	<0.005	1.54(J)	1.34	<0.01	5.48	271(B)
	10/5/2016	0.11	<0.002	0.00683(J)	<0.0002	<0.005	0.134(BJ)	0.414	0.00194(J)	5.68	287
	1/26/2017	0.12	<0.002	0.00707(J)	<0.0002	<0.005	0.546(J)	0.661	0.00378	7.46	268
	4/25/2017	0.131	<0.002	0.00688(J)	<0.0002	<0.005	0.178(J)	0.58	0.00128(J)	6.55	277
	7/18/2017	0.151	<0.002	<0.015	<0.0002	<0.005	1.29	0.737	0.00222	6.56	292
	9/20/2017	0.144	<0.002	0.00706(J)	<0.0002	<0.005	1.18	0.607	0.00219	6.43	280
	4/11/2018	0.124	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7.28	290
	9/27/2018	0.144(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7.19	318

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MW-117	11/19/2018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	288
(cont.)	5/15/2019	0.147(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6.66	341
	8/2/2019	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	302
	10/22/2019	0.136	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5.45	322
	4/7/2020	0.144(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7.47	323
	6/22/2020	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	10/8/2020	0.137(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7.75	298
	4/13/2021	0.152	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7.46	351
	6/29/2021	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	314
	10/6/2021	0.162	n/a	n/a	n/a	n/a	n/a	n/a	n/a	9.09	314
	12/14/2021	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	9.31	308
	4/6/2022	0.0916(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	9.03	341
	6/20/2022	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	9.63	318
	10/5/2022	0.122(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	10.3	311
	4/19/2023	0.108(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	13.4	309
	10/12/2023	0.121(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	14.4	325(B)
	12/6/2023	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	328
	4/19/2024	0.151	n/a	n/a	n/a	n/a	n/a	n/a	n/a	54.7	400(B)
	6/19/2024	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	37.8	376
	10/17/2024	0.174(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	20.1	342
	4/15/2025	0.14(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	23.8	381
	10/21/2025	0.354	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6.5	333(B)
	12/16/2025	0.141(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	318
MW-118	downgradient										
	10/9/2015	0.175	0.000678(J)	0.00757(J)	<0.0002	<0.005	0.101(J)	0.594	0.00325	12	271
	1/28/2016	0.175	<0.002	<0.015	<0.0002	<0.005	0.355(J)	0.728	0.00732	11.5	269(B)
	4/28/2016	0.119	<0.002	0.00585(J)	<0.0002	<0.005	3.31	1.16	0.00474	26.7	378(B)
	7/26/2016	0.133	<0.005	<0.015	<0.0002	<0.005	0.921(J)	1.46	0.0132	26.6	322(B)
	10/5/2016	0.157	<0.002	<0.015	<0.0002	<0.005	0.99(B)	0.594	0.00302	15.1	294
	1/26/2017	0.188	<0.002	<0.015	<0.0002	<0.005	1.12	0.652	0.00291	13.4	275

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MW-118	4/26/2017	0.163	<0.002	0.00736(J)	<0.0002	<0.005	0.051(J)	0.593	0.000678(J)	12.2	276
(cont.)	7/20/2017	0.172	<0.002	<0.015	<0.0002	<0.005	0.176(J)	0.531	0.00333	20.4	313
	9/20/2017	0.187	<0.002	<0.015	<0.0002	<0.005	1.29	0.724	0.00383	18.5	305
	4/11/2018	0.157	n/a	n/a	n/a	n/a	n/a	n/a	n/a	15.2	257
	7/10/2018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	9/27/2018	0.165(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	17	375
	5/15/2019	0.185	n/a	n/a	n/a	n/a	n/a	n/a	n/a	16.5	286
	8/2/2019	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	10/22/2019	0.162	n/a	n/a	n/a	n/a	n/a	n/a	n/a	17.5	335
	4/8/2020	0.152	n/a	n/a	n/a	n/a	n/a	n/a	n/a	16.6	304
	10/8/2020	0.15(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	18.3	301
	4/15/2021	0.185	n/a	n/a	n/a	n/a	n/a	n/a	n/a	20	329
	10/6/2021	0.189	n/a	n/a	n/a	n/a	n/a	n/a	n/a	11.5	280
	4/7/2022	0.129(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	17.6	320
	10/5/2022	0.124(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	19.7	329
	4/18/2023	0.147(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	17	268
	10/11/2023	0.154	n/a	n/a	n/a	n/a	n/a	n/a	n/a	20.7	335(B)
	4/18/2024	0.175	n/a	n/a	n/a	n/a	n/a	n/a	n/a	12.8	258
	10/17/2024	0.222(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	13.8	308
	4/15/2025	0.165	n/a	n/a	n/a	n/a	n/a	n/a	n/a	13.2	281
	10/20/2025	0.149(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	29.3	406(B)
	12/16/2025	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	25.8	336
MW-119	downgradient										
	1/25/2017	0.255	<0.002	0.033	<0.0002	<0.005	0.545(J)	0.571	0.00174(J)	47.6	409
	4/27/2017	0.198	<0.002	0.0185	<0.0002	<0.005	1.08	0.645	0.00108(J)	39.1	403
	7/20/2017	0.256	<0.002	0.0102(J)	<0.0002	<0.005	0.708(J)	0.612	0.00114(J)	48.7	432
	9/20/2017	0.289	<0.002	0.0134(J)	<0.0002	<0.005	0.845(J)	0.685	0.00258	38.7	338
	1/30/2018	0.259	n/a	n/a	n/a	n/a	n/a	n/a	n/a	35.5	380
	4/11/2018	0.23	n/a	n/a	n/a	n/a	n/a	n/a	n/a	31.1	315
	9/27/2018	0.253(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	41.6	290

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MW-119	11/20/2018	0.271	n/a	n/a	n/a	n/a	n/a	n/a	n/a	33	343
(cont.)	12/18/2018	n/a	<0.002	0.0246	<0.0002	<0.005	1	0.577	0.00052(J)	n/a	n/a
	2/18/2019	0.253	<0.002	0.0216	<0.0002	<0.005	0.705(J)	0.575	0.000592(J)	43	374
	5/16/2019	0.252	0.00025(J)	0.0318(B)	<0.0002	<0.005	2.35	0.774	0.000564(J)	47.4	487
	8/2/2019	n/a	<0.002	0.0131(J)	<0.0002	<0.005	0.23(J)	1.05	<0.002	n/a	n/a
	10/22/2019	0.266	n/a	n/a	n/a	n/a	n/a	n/a	n/a	47.7	400
	4/8/2020	0.229	n/a	n/a	n/a	n/a	n/a	n/a	n/a	39.4	426
	10/8/2020	0.251	n/a	n/a	n/a	n/a	n/a	n/a	n/a	52.9	415
	4/15/2021	0.267	n/a	n/a	n/a	n/a	n/a	n/a	n/a	33.6	413
	10/7/2021	0.269	n/a	n/a	n/a	n/a	n/a	n/a	n/a	39.1	388
	4/7/2022	0.195	n/a	n/a	n/a	n/a	n/a	n/a	n/a	37.1	397
	10/5/2022	0.23	n/a	n/a	n/a	n/a	n/a	n/a	n/a	46.2	444
	12/16/2022	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	4/18/2023	0.228	n/a	n/a	n/a	n/a	n/a	n/a	n/a	18.9	350
	10/11/2023	0.237	n/a	n/a	n/a	n/a	n/a	n/a	n/a	46.5	451(B)
	4/19/2024	0.285	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5.93(B)	325
	10/16/2024	0.341(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	22.6	410
	4/14/2025	0.22	n/a	n/a	n/a	n/a	n/a	n/a	n/a	17.5	319
	10/20/2025	0.193	n/a	n/a	n/a	n/a	n/a	n/a	n/a	37.7	360(B)
MW-120	downgradient										
	7/6/2023	0.12(J)	<0.002	0.00888	<0.0002	0.000942(J)	0.319(J)	0.419(J)	0.0151	6.11	286
	8/8/2023	0.142(J)	<0.002	0.00889	<0.0002	0.00084(J)	0.576(J)	0.462(J)	0.00798	8.53	269
	9/7/2023	0.204	<0.002	0.00784	<0.0002	0.000819(J)	1.51	0.302	0.00567	6.82	247
	4/18/2024	0.128(J)	<0.002	0.0177	<0.0002	0.000939(BJ)	1.53	0.451	0.018	14.8	301(B)
	5/16/2024	0.175(B)	<0.002	0.0188	<0.0002	0.00109(J)	0.311(J)	0.43(J)	0.0158	19.5	336
	6/18/2024	0.194(JQ)	<0.002	0.0154	<0.0002	0.000905(J)	0.415(J)	0.433(J)	0.013	22.4(Q)	338
	7/18/2024	0.218	<0.002	0.0181(B)	<0.0002	0.000825(J)	1.73	0.607	0.0117	6.95	270
	8/15/2024	0.21	<0.002	0.00965	<0.0002	0.000893(J)	0.218(J)	0.284(J)	0.0162	6.35	249
	9/20/2024	0.218	<0.002	0.00865	<0.0002	0.0008(J)	0.577	0.361	0.00902	6.28	261
	10/16/2024	0.273(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	8.02	244

B: analyte was detected in associated blank sample.

J: analyte was detected below the RDL; value is an estimate.

O: value is a statistical outlier; not used in statistics.

R: value rejected due to suspected error; not used in statistics.

Well ID	Date	Fluoride (mg/L)	Lead (mg/L)	Lithium (mg/L)	Mercury (mg/L)	Molybdenum (mg/L)	Radium (pCi/L)	Radium Error Level (pCi/L)	Selenium (mg/L)	Sulfate (mg/L)	TDS (mg/L)
MW-120	4/11/2025	0.225	n/a	n/a	n/a	n/a	n/a	n/a	n/a	15.3	291
(cont.)	10/20/2025	0.155	n/a	n/a	n/a	n/a	n/a	n/a	n/a	19.3	244(B)
MW-121	downgradient										
	7/6/2023	0.0915(J)	<0.002	0.00328	<0.0002	<0.005	0.512(J)	0.395(J)	0.00403	6.93	174
	8/8/2023	0.121(J)	<0.002	0.00303	<0.0002	<0.005	0.768	0.295	0.00419	7.93	155
	9/7/2023	0.108(J)	0.00185(BJ)	0.003	<0.0002	<0.005	0.965	0.373	0.00586	14.6	179
	10/10/2023	0.126(J)	<0.002	0.00253	<0.0002	<0.005	0.537(BJ)	0.372(BJ)	0.00617	21.4	165
	11/7/2023	0.0799(J)	<0.002	0.00312	<0.0002	<0.005	1.01(B)	0.346(B)	0.0053	27.5	194
	12/6/2023	0.0891(J)	<0.002	0.00293	<0.0002	<0.005	1.3	0.4	0.00322	28.1	187
	1/10/2024	0.154	<0.002	0.00205	<0.0002	<0.005	1.07	0.432	0.00194(J)	12	151(Q)
	2/7/2024	0.169	<0.002	0.00189(J)	<0.0002	<0.005	0.883	0.392	0.000338(J)	10.9	139
	3/14/2024	0.0717(J)	<0.002	0.00199(J)	<0.0002	<0.005	0.189(J)	0.267(J)	<0.002	3.32(J)	120
	4/18/2024	0.11(J)	<0.002	0.00214	<0.0002	<0.005	0.231(J)	0.294(J)	<0.002	2.46(J)	116(B)
	6/18/2024	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	150
	10/17/2024	0.184(B)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	10.3	181
	4/14/2025	0.127(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6.24	166
	10/20/2025	0.117(J)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	16.5	272(B)
	12/16/2025	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	196

B: analyte was detected in associated blank sample.

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O: value is a statistical outlier; not used in statistics.

R: value rejected due to suspected error; not used in statistics.

Well ID	Date	Thallium (mg/L)	Conductivity (umhos/cm)	pH (su)	Temperature (C)	Turbidity (NTU)
MW-101	downgradient					
	10/7/2015	<0.002	n/a	6.4	n/a	1
	1/28/2016	<0.002	n/a	6.6	n/a	0.9
	4/27/2016	<0.002	n/a	6.3	n/a	1.2
	7/26/2016	<0.01	n/a	6.6	n/a	2.2
	10/6/2016	<0.002	n/a	6.2(R)	n/a	1.6
	1/25/2017	<0.002	650	6.7(R)	17.8	4.2
	4/26/2017	<0.002	598	6.9	18.9	1
	7/20/2017	<0.002	631	6.7	20.4	1.4
	9/20/2017	<0.002	626	7	19.9	0
	12/11/2017	n/a	566	6.4	19.4	0.9
	4/12/2018	n/a	692	6.4	16.7	2.7
	9/26/2018	n/a	657	6.8	18.8	2.3
	5/16/2019	n/a	565	6.6	18.9	3.1
	10/23/2019	n/a	618	7	13.9	<0.02
	4/8/2020	n/a	645	6.8	17.8	2.6
	10/9/2020	n/a	578	6.7	18.9	3.6
	4/15/2021	n/a	485	7.1	17	3.6
	6/29/2021	n/a	710	6.7	18.6	2
	10/7/2021	n/a	612	6.7	18.6	1.3
	4/7/2022	n/a	531	6.8	16.5	2.9
	10/5/2022	n/a	501	6.2	18.7	2
	4/19/2023	n/a	584	6.9	17.7	2.7
	10/11/2023	n/a	522	6.8	19.2	1.1
	4/19/2024	n/a	546	6.8	17.5	2.6
	10/16/2024	n/a	535	6.8	19.4	1.6
	4/14/2025	n/a	586	6.9	18.7	1.6
	10/21/2025	n/a	520	6.7	18.4	4
MW-102	downgradient					
	11/10/2015	<0.002	n/a	6.8	n/a	5.6

B: analyte was detected in associated blank sample.

J: analyte was detected below the RDL; value is an estimate.

O: value is a statistical outlier; not used in statistics.

R: value rejected due to suspected error; not used in statistics.

Well ID	Date	Thallium (mg/L)	Conductivity (umhos/cm)	pH (su)	Temperature (C)	Turbidity (NTU)
MW-102	1/28/2016	<0.002	n/a	6.8	n/a	0.8
(cont.)	4/27/2016	<0.002	n/a	6.7	n/a	1
	7/26/2016	<0.01	n/a	7.7(R)	n/a	3.2
	10/6/2016	<0.002	n/a	6(R)	n/a	2.5
	1/25/2017	<0.002	731	5.8(R)	17.8	4.7
	4/27/2017	<0.002	681	6.7	17.2	1.2
	7/19/2017	<0.002	705	6.6	20.3	0.8
	9/20/2017	<0.002	688	6.7	20.1	0.9
	4/11/2018	n/a	728	6.3	17.1	2.2
	7/9/2018	n/a	804	6.7	23.5	3
	9/27/2018	n/a	642	6.5	18.4	2.1
	5/16/2019	n/a	642	6.6	21.7	1
	10/23/2019	n/a	665	6.7	18	<0.02
	4/7/2020	n/a	661	6.6	17.6	0.6
	10/9/2020	n/a	614	6.5	19.4	2.8
	4/15/2021	n/a	605	6.9	16.8	3.3
	10/6/2021	n/a	630	6.8	21.1	4.3
	4/6/2022	n/a	574	6.6	16.7	3.4
	10/5/2022	n/a	526	6.3	20.7	2.7
	4/19/2023	n/a	562	6.7	18.5	3.7
	10/12/2023	n/a	529	6.6	21.1	7
	4/19/2024	n/a	557	6.6	17.8	7.2
	10/16/2024	n/a	735	6.5	19.2	7.1
	12/10/2024	n/a	684	6.6	18.2	9.3
	4/14/2025	n/a	915	6.7	19.3	4
	7/2/2025	n/a	1110	6.6	20.7	2.6
	10/21/2025	n/a	913	6.6	20	3.8
MW-103	downgradient					
	10/7/2015	<0.002	n/a	6.5	n/a	0.4
	1/28/2016	<0.002	n/a	6.3	n/a	3

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R: value rejected due to suspected error; not used in statistics.

Well ID	Date	Thallium (mg/L)	Conductivity (umhos/cm)	pH (su)	Temperature (C)	Turbidity (NTU)
MW-103	4/27/2016	<0.002	n/a	6.5	n/a	1.7
(cont.)	7/26/2016	<0.01	n/a	6.3	n/a	0.8
	10/6/2016	<0.002	n/a	6.3(R)	n/a	2.3
	1/26/2017	<0.002	761	6.8(R)	16.3	1.3
	4/27/2017	<0.002	740	6.5	17.9	0.5
	7/20/2017	<0.002	778	6.6	24.8	0.5
	9/20/2017	<0.002	781	6.6	19.9	1.5
	4/11/2018	n/a	766	6.2	17.6	1.1
	9/26/2018	n/a	705	6.6	19.4	1.3
	5/15/2019	n/a	598	6.6	18.7	2.4
	10/22/2019	n/a	634	6.7	18.7	<0.02
	4/8/2020	n/a	560	6.7	17.4	3.1
	10/8/2020	n/a	491	6.4	19.5	4.2
	4/15/2021	n/a	442	6.9	17	4.3
	10/7/2021	n/a	496	6.5	18.4	2.9
	4/7/2022	n/a	380	6.8	16.5	9.5
	10/5/2022	n/a	375	6.3	19.6	9.1
	4/18/2023	n/a	482	6.7	18.7	4.5
	10/11/2023	n/a	454	6.5	19.6	4.6
	4/19/2024	n/a	479	6.4	16.5	9.7
	10/16/2024	n/a	447	6.6	17.9	6.9
	4/14/2025	n/a	610	6.5	19.5	9.9
	10/20/2025	n/a	535	6.7	19.9	6.8
MW-104	downgradient					
	8/8/2023	<0.002	461	6.7	18	8.2
	9/7/2023	<0.002	466	6.8	19.5	6.2
	10/11/2023	<0.002	486	6.6	17.7	4.8
	11/7/2023	<0.002	510	6.9	18.5	5.2
	12/5/2023	<0.002	581	6.8	17.7	9
	1/10/2024	<0.002	537	6.7	17.2	9.6

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Well ID	Date	Thallium (mg/L)	Conductivity (umhos/cm)	pH (su)	Temperature (C)	Turbidity (NTU)
MW-104	2/7/2024	<0.002	480	6.8	17.8	9.1
(cont.)	3/14/2024	<0.002	562	6.7	18.9	9.7
	4/18/2024	<0.002	527	6.6	17.7	7.6
	5/16/2024	<0.002	498	6.7	21	78.4
	6/18/2024	n/a	545	6.8	20.3	9.6
	10/15/2024	n/a	472	6.6	17.7	9.6
	4/11/2025	n/a	464	6.7	16.8	1.5
	7/1/2025	n/a	546	6.7	20.6	8.9
	10/20/2025	n/a	488	6.7	18.7	8.7
MW-108	upgradient					
	1/28/2016	<0.002	n/a	6.7	n/a	2.4
	4/28/2016	<0.002	n/a	6.6	n/a	2.7
	7/26/2016	<0.01	n/a	9.8(R)	n/a	1.2
	10/6/2016	<0.002	n/a	6.2(R)	n/a	1
	1/26/2017	<0.002	897	7(R)	12.3	1.7
	4/25/2017	<0.002	784	6.8	19.3	1.4
	7/18/2017	<0.002	834	6.7	22.7	1.3
	9/19/2017	<0.002	939	6.7	25.2	1.3
	4/10/2018	n/a	960	6.5	16.3	1.9
	9/25/2018	n/a	867	6.7	22.9	1.9
	5/14/2019	n/a	844	6.8	20.6	3.7
	8/1/2019	n/a	936	7.1	21	2.1
	10/22/2019	n/a	862	6.7	15.3	<0.02
	4/6/2020	n/a	879	6.9	19.4	3.6
	10/7/2020	n/a	810	6.8	23.6	5.8
	4/13/2021	n/a	706	7	17.4	3.1
	10/5/2021	n/a	756	6.7	20.8	2.3
	4/5/2022	n/a	725	6.8	18.5	4
	10/4/2022	n/a	690	6.2(R)	21.5	3
	1/11/2023	n/a	708	6.8	19.5	3.1

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Well ID	Date	Thallium (mg/L)	Conductivity (umhos/cm)	pH (su)	Temperature (C)	Turbidity (NTU)
MW-108	4/18/2023	n/a	728	6.8	20.2	4.7
(cont.)	4/17/2024	n/a	725	6.7	19.4	1.2
	6/19/2024	n/a	807	6.6	21.1	3.9
	10/15/2024	n/a	687	6.5	19.8	8.6
	4/10/2025	n/a	714	6.8	19.6	1.3
	10/15/2025	n/a	649	6.9	22.4	2.8
MW-110	downgradient					
	8/8/2023	<0.002	533	6.8	19	7.5
	9/7/2023	<0.002	490	6.8	19.5	8.8
	10/10/2023	<0.002	456	7.1	18.8	5.8
	11/7/2023	<0.002	488	7	19.4	1.5
	12/5/2023	<0.002	557	7.1	17.8	8
	1/10/2024	<0.002	525	6.9	17.1	8
	2/7/2024	<0.002	408	6.9	17.6	4
	3/14/2024	<0.002	475	6.5	18.4	6
	4/18/2024	<0.002	463	6.7	18.1	6.6
	5/16/2024	<0.002	448	6.9	19	49.3
	6/18/2024	n/a	511	6.6	18.8	3.9
	10/15/2024	n/a	511	6.7	19.6	9.7
	4/11/2025	n/a	467	6.9	17.9	8.7
	7/1/2025	n/a	553	7	20.4	6.3
	10/15/2025	n/a	508	7.1	20.5	8.9
MW-113	upgradient					
	1/28/2016	<0.002	n/a	6.6	n/a	1.2
	4/28/2016	<0.002	n/a	6.9	n/a	0.6
	7/26/2016	<0.01	n/a	8.1(R)	n/a	1.1
	10/5/2016	<0.002	n/a	6(R)	n/a	2.2
	1/26/2017	<0.002	569	7.1(R)	16.1	0.9
	4/25/2017	<0.002	513	6.9	19	1.1
	7/18/2017	<0.002	512	6.8	20.3	0.7

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Well ID	Date	Thallium (mg/L)	Conductivity (umhos/cm)	pH (su)	Temperature (C)	Turbidity (NTU)
MW-113	9/19/2017	<0.002	550	6.9	19.7	0.8
(cont.)	4/10/2018	n/a	587	6.4	16.2	1.8
	9/25/2018	n/a	567	6.7	20.8	0.8
	5/14/2019	n/a	567	6.7	17.6	2.8
	10/22/2019	n/a	509	6.7	18.2	<0.02
	4/6/2020	n/a	551	6.7	18	2.8
	10/7/2020	n/a	458	6.5	19.5	4.3
	4/13/2021	n/a	535	7.1	16.3	2.1
	6/29/2021	n/a	550	6.2	21.9	2.3
	10/5/2021	n/a	417	6.6	20.4	1.1
	4/5/2022	n/a	476	6.6	17.7	4.4
	10/4/2022	n/a	447	6.5	20.4	2.5
	4/17/2023	n/a	516	6.8	17.1	1.8
	10/10/2023	n/a	379	6.8	19.5	2.3
	4/17/2024	n/a	496	6.8	17.9	1.2
	10/15/2024	n/a	422	6.5	18.8	5
	4/10/2025	n/a	439	6.8	17.9	0.9
	10/15/2025	n/a	352	6.7	19.6	3.3
MW-115	upgradient					
	11/10/2015	<0.002	n/a	7	n/a	4.3
	1/28/2016	<0.002	n/a	7.1	n/a	0.5
	4/28/2016	<0.002	n/a	6.8	n/a	0.6
	7/26/2016	<0.01	n/a	9(R)	n/a	1.3
	10/5/2016	<0.002	n/a	6.1(R)	n/a	0.4
	1/27/2017	<0.002	557	7(R)	16.1	1.1
	4/25/2017	<0.002	559	6.8	18.6	0.9
	7/18/2017	<0.002	607	6.6	20.2	0.7
	9/19/2017	<0.002	678	6.8	19.9	0.6
	4/10/2018	n/a	647	6.3	15.9	0.7
	9/25/2018	n/a	701	6.7	21.8	1.1

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Well ID	Date	Thallium (mg/L)	Conductivity (umhos/cm)	pH (su)	Temperature (C)	Turbidity (NTU)
MW-115	5/14/2019	n/a	663	6.6	17.1	3.2
(cont.)	8/1/2019	n/a	712	7.1	20.9	1.5
	10/23/2019	n/a	643	6.9	17.7	<0.02
	4/6/2020	n/a	642	6.7	17.9	9
	10/7/2020	n/a	573	6.6	20.3	3.3
	4/13/2021	n/a	595	7	15.9	2.3
	10/5/2021	n/a	584	6.7	20.2	1
	4/5/2022	n/a	534	6.7	17.4	2.3
	10/3/2022	n/a	618	6.7	18.6	2.3
	4/17/2023	n/a	622	6.8	17.6	3
	10/10/2023	n/a	544	6.9	19	1.3
	4/17/2024	n/a	586	6.7	18.4	0.9
	10/15/2024	n/a	608	6.7	18.2	4.1
	4/10/2025	n/a	624	6.8	17.8	1.3
	7/1/2025	n/a	599	6.6	20.5	1.5
	10/15/2025	n/a	571	6.7	19.5	3.4
MW-116	downgradient					
	10/8/2015	<0.002	n/a	6.7	n/a	2.7
	1/28/2016	<0.002	n/a	6.8	n/a	0.9
	4/28/2016	<0.002	n/a	6.6	n/a	1.3
	7/26/2016	<0.01	n/a	6.2	n/a	1.6
	10/6/2016	<0.002	n/a	5.9(R)	n/a	0.9
	1/25/2017	<0.002	752	5.9(R)	18.3	2
	4/27/2017	<0.002	624	6.7	17.6	0.7
	7/19/2017	<0.002	636	6.5	21.2	0.5
	9/20/2017	<0.002	649	6.7	20.5	0
	1/30/2018	n/a	626	6.5	17.3	0.8
	4/11/2018	n/a	768	6.4	17.6	0.9
	7/9/2018	n/a	828	6.6	23.8	3.2
	9/26/2018	n/a	732	6.6	19.5	1.5

B: analyte was detected in associated blank sample.

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Well ID	Date	Thallium (mg/L)	Conductivity (umhos/cm)	pH (su)	Temperature (C)	Turbidity (NTU)
MW-116	5/16/2019	n/a	506	6.6	21.1	1
(cont.)	10/23/2019	n/a	618	6.7	17.4	<0.02
	4/8/2020	n/a	607	6.6	19.5	2.3
	10/9/2020	n/a	696	6.3	19.1	3.4
	4/15/2021	n/a	677	6.9	16.7	1.7
	6/29/2021	n/a	1052	6.5	19.5	1.8
	10/6/2021	n/a	948	6.5	19.9	1
	12/14/2021	n/a	901	6.7	19.5	1.1
	4/6/2022	n/a	478	6.9	16.3	2.6
	10/5/2022	n/a	447	6.2	19.6	2.5
	4/19/2023	n/a	554	6.8	18.7	2.7
	10/11/2023	n/a	476	6.5	19.1	1.6
	4/19/2024	n/a	543	6.6	17.4	3.4
	10/16/2024	n/a	674	6.3	18.8	2
	12/10/2024	n/a	669	6.6	19.6	5.4
	4/14/2025	n/a	903	6.6	20.5	2.3
	7/2/2025	n/a	873	6.6	20.5	2.5
	10/21/2025	n/a	751	6.5	20.7	3.4
MW-117	downgradient					
	10/8/2015	<0.002	n/a	6.6	n/a	0.3
	1/28/2016	<0.002	n/a	6.5	n/a	1.8
	4/27/2016	<0.002	n/a	6.6	n/a	3.5
	7/26/2016	<0.01	n/a	7.9(R)	n/a	0.9
	10/5/2016	<0.002	n/a	5.1(R)	n/a	1
	1/26/2017	<0.002	464	6.1(R)	17	3.1
	4/25/2017	<0.002	398	6.6	19.2	1.1
	7/18/2017	<0.002	430	6.4	20.8	0.7
	9/20/2017	<0.002	491	6.5	20.3	0.5
	4/11/2018	n/a	486	6.4	17.2	1.8
	9/27/2018	n/a	484	6.4	18.5	2.2

B: analyte was detected in associated blank sample.

J: analyte was detected below the RDL; value is an estimate.

O: value is a statistical outlier; not used in statistics.

R: value rejected due to suspected error; not used in statistics.

Well ID	Date	Thallium (mg/L)	Conductivity (umhos/cm)	pH (su)	Temperature (C)	Turbidity (NTU)
MW-117	11/19/2018	n/a	383	6.6	17.1	1.7
(cont.)	5/15/2019	n/a	528	6.5	17.9	3
	8/2/2019	n/a	506	6.3	19.3	1.2
	10/22/2019	n/a	530	6.5	19.1	<0.02
	4/7/2020	n/a	537	6.6	17.4	0.3
	6/22/2020	n/a	573	6.1	18.6	2.8
	10/8/2020	n/a	443	6.3	20.1	3.5
	4/13/2021	n/a	507	6.9	18.1	2.2
	6/29/2021	n/a	566	6.4	20	1.4
	10/6/2021	n/a	491	6.5	19.6	2.1
	12/14/2021	n/a	435	6.5	18.8	1.1
	4/6/2022	n/a	487	6.5	16.4	2.2
	6/20/2022	n/a	586	5.8	20.3	5.9
	10/5/2022	n/a	410	5.7	18.5	1.9
	4/19/2023	n/a	492	6.5	17.8	1
	10/12/2023	n/a	461	6.4	19.1	1.2
	12/6/2023	n/a	408	6.4	17.2	0.7
	4/19/2024	n/a	535	6.3	17	0.7
	6/19/2024	n/a	617	6.4	19.2	3
	10/17/2024	n/a	497	6.4	19	1.1
	4/15/2025	n/a	562	6.6	17.8	1.1
	10/21/2025	n/a	505	6.5	20.1	3.3
	12/16/2025	n/a	509	6.5	16.3	1.4
MW-118	downgradient					
	10/9/2015	<0.002	n/a	6.4	n/a	2.6
	1/28/2016	<0.002	n/a	6.2	n/a	1.7
	4/28/2016	<0.002	n/a	6.2	n/a	1.3
	7/26/2016	<0.01	n/a	8(R)	n/a	0.9
	10/5/2016	<0.002	n/a	6.3(R)	n/a	0.7
	1/26/2017	<0.002	459	6.1(R)	15.4	0.5

B: analyte was detected in associated blank sample.

J: analyte was detected below the RDL; value is an estimate.

O: value is a statistical outlier; not used in statistics.

R: value rejected due to suspected error; not used in statistics.

Well ID	Date	Thallium (mg/L)	Conductivity (umhos/cm)	pH (su)	Temperature (C)	Turbidity (NTU)
MW-118	4/26/2017	<0.002	424	6.3	17.9	0.5
(cont.)	7/20/2017	<0.002	487	6.5	22.9	0.7
	9/20/2017	<0.002	491	6.5	20.3	0.2
	4/11/2018	n/a	429	5.8	16.5	1.3
	7/10/2018	n/a	n/a	6.5	n/a	n/a
	9/27/2018	n/a	443	6.3	17.9	1
	5/15/2019	n/a	435	6	18.2	3.7
	8/2/2019	n/a	n/a	6.1	n/a	n/a
	10/22/2019	n/a	548	6.4	18.1	<0.02
	4/8/2020	n/a	530	6.1	17.8	2.7
	10/8/2020	n/a	454	6.1	19.6	3.9
	4/15/2021	n/a	484	6.6	15.7	2.4
	10/6/2021	n/a	457	6.4	18.8	1.1
	4/7/2022	n/a	437	6.6	16.2	2.2
	10/5/2022	n/a	414	6.1	17.6	2.4
	4/18/2023	n/a	404	6.5	17.7	1.3
	10/11/2023	n/a	460	6.3	19.2	1.1
	4/18/2024	n/a	422	6.2	18.1	0.6
	10/17/2024	n/a	436	6.3	18.5	2.5
	4/15/2025	n/a	417	6.5	17.1	1.5
	10/20/2025	n/a	588	6.4	19.9	3.3
	12/16/2025	n/a	527	6.2	16.8	1.3
MW-119	downgradient					
	1/25/2017	<0.002	678	6.6(R)	18.8	4.6
	4/27/2017	<0.002	607	6.8	18.3	0.9
	7/20/2017	<0.002	625	6.6	20.9	1.2
	9/20/2017	<0.002	549	6.8	20.5	0.4
	1/30/2018	n/a	581	6.4	18.2	1.2
	4/11/2018	n/a	524	6.4	18	0.9
	9/27/2018	n/a	562	6.7	19.2	1.3

B: analyte was detected in associated blank sample.

J: analyte was detected below the RDL; value is an estimate.

O: value is a statistical outlier; not used in statistics.

R: value rejected due to suspected error; not used in statistics.

Well ID	Date	Thallium (mg/L)	Conductivity (umhos/cm)	pH (su)	Temperature (C)	Turbidity (NTU)
MW-119	11/20/2018	n/a	426	6.8	18.5	0.6
(cont.)	12/18/2018	<0.002	n/a	n/a	n/a	n/a
	2/18/2019	<0.002	450	6.6	16.4	1.8
	5/16/2019	<0.002	695	6.4	18.9	1.7
	8/2/2019	<0.002	502	6.4	19.6	1.9
	10/22/2019	n/a	725	6.7	18.9	<0.02
	4/8/2020	n/a	691	6.6	19.1	2.2
	10/8/2020	n/a	594	6.5	19.6	3.2
	4/15/2021	n/a	594	6.9	17.5	2.2
	10/7/2021	n/a	579	6.7	19.7	1.5
	4/7/2022	n/a	548	6.6	17.6	2.4
	10/5/2022	n/a	549	6.2(R)	19.5	2.7
	12/16/2022	n/a	595	6.9	16.8	2.1
	4/18/2023	n/a	536	6.9	19.3	2.3
	10/11/2023	n/a	616	6.8	20.7	1.5
	4/19/2024	n/a	461	6.7	17.9	1.9
	10/16/2024	n/a	604	6.8	18.5	2
	4/14/2025	n/a	529	6.8	19.3	1.4
	10/20/2025	n/a	517	6.8	20.3	3.3
MW-120	downgradient					
	7/6/2023	<0.002	474	6.6	20.5	3.4
	8/8/2023	<0.002	430	6.4	19.4	1.3
	9/7/2023	<0.002	390	6.5	20.8	1.9
	4/18/2024	<0.002	524	6.3	18.6	1.1
	5/16/2024	<0.002	566	6.2	18.9	9.6
	6/18/2024	<0.002	580	6.3	20	3.9
	7/18/2024	<0.002	486	6.1	20	1.3
	8/15/2024	<0.002	998	6.1	21.9	1.3
	9/20/2024	<0.002	443	6.3	20.6	5.4
	10/16/2024	n/a	348	6.5	16.6	1.2

B: analyte was detected in associated blank sample.

J: analyte was detected below the RDL; value is an estimate.

O: value is a statistical outlier; not used in statistics.

R: value rejected due to suspected error; not used in statistics.

Well ID	Date	Thallium (mg/L)	Conductivity (umhos/cm)	pH (su)	Temperature (C)	Turbidity (NTU)
MW-120	4/11/2025	n/a	410	6.6	18.1	1.4
(cont.)	10/20/2025	n/a	360	6.6	18.5	3.4
MW-121	downgradient					
	7/6/2023	<0.002	294	6.4	19.9	2
	8/8/2023	<0.002	240	6.2	20.2	1.7
	9/7/2023	<0.002	249	6.2	20.9	1.4
	10/10/2023	<0.002	258	6.4	21.4	1.4
	11/7/2023	<0.002	279	6.2	21.5	0.6
	12/6/2023	<0.002	268	6.4	19.1	0.9
	1/10/2024	<0.002	215	6.4	19	5.6
	2/7/2024	<0.002	186	6.4	19.1	1.6
	3/14/2024	<0.002	189	6.1	19.5	1.8
	4/18/2024	<0.002	172	6.1	19.4	1.9
	6/18/2024	n/a	226	6.3	19.9	3.1
	10/17/2024	n/a	248	6.2	20.2	0.8
	4/14/2025	n/a	255	6.5	19.7	1.2
	10/20/2025	n/a	398	6.3	21	3.1
	12/16/2025	n/a	286	6.1	18.2	1.3

B: analyte was detected in associated blank sample.

J: analyte was detected below the RDL; value is an estimate.

O: value is a statistical outlier; not used in statistics.

R: value rejected due to suspected error; not used in statistics.

APPENDIX E
BACKGROUND DATA SETS USED FOR STATISTICS

BACKGROUND DATA SETS

Background data sets are generally evaluated every 2 to 3 years in accordance with the landfill's statistical analysis plan (SAP) and Unified Guidance recommendations. This document describes recommended methods and procedures used to evaluate compliance data for inclusion in the background data sets in accordance with §257.94(b), the landfill's SAP, and the Unified Guidance. The Unified Guidance recommends updating background data sets to include more recent observations, because some long-term fluctuation in background levels may be possible even though a given well has not been impacted by the landfill. As identified in the Unified Guidance, the term "background" refers to the natural or baseline groundwater quality at a site. Background conditions can range from an uncontaminated aquifer to a historically contaminated site with baseline conditions that are unaffected by recent releases that are actionable under the Resource Conservation and Recovery Act. The terms "background" and "baseline" are used interchangeably herein. Procedures used for establishing the initial background data sets were described in the 2018 and 2019 annual reports.

Background data sets for all wells were evaluated for an update prior to the second half of 2024 monitoring period, with the exception of well-parameter pairs that did not contain enough compliance data for comparison to the existing background data set. Background data sets used for the 2025 statistical analyses are included in this appendix.

Initial background data sets were also established for new wells MW-104, MW-110, MW-120, and MW-121. The initial background data sets were screened using exploratory data analyses to identify potential trends, outliers, and spatial variability. Time-series plots and box-and-whiskers plots were generated for the new background data sets to identify potential excursions from normal. At this time, there is an insufficient number of values at each well to test for seasonality or auto-correlation; however, the statistical software package used to evaluate the facility's data (*Sanitas version 10*) automatically tests for seasonality and distribution and corrects for each, if necessary. Finally, the background data sets were also tested for outliers and the presence of trends, as described below.

Exploratory Analyses

Background data sets were screened prior to updating using exploratory data analyses to identify potential trends, outliers, and spatial variability. Time-series plots and box-and-whiskers plots were applied to all background data sets to identify potential excursions from normal.

Updating Background Data Sets

Existing background and compliance populations for each well-parameter pair were evaluated with the intrawell Mann-Whitney (Wilcoxon Rank-Sum) test. This test evaluates whether the existing background data set is statistically different from the compliance data set. When comparing a minimum of four compliance values to the background data set, the background data set is generally updated if the test finds no significant difference at the 95% confidence level ($\alpha = 0.05$). When comparing compliance populations of five or more values, background data sets are generally updated if the test finds no significant difference at the 99% confidence level ($\alpha = 0.01$).

Outliers and Rejected Data in Background Data Sets

The Unified Guidance recommends that background data be screened for potential outliers. However, it also advises that outliers not be removed unless a source of error or reason for the discrepancy can be identified. As advised in the Unified Guidance, select removal of extreme outliers without knowledge of error may be warranted to improve environmental protection, but removal of all outliers can mask real and legitimate changes in background data. Outlier screening included the application of Dixon's or Tukey's outlier tests to the updated background data sets to identify potential outliers for exclusion.

Extreme outliers and data that are excluded from the historical database based on independent evidence of error or that are suspected of being unrepresentative of groundwater quality (e.g., due to excessively high sample turbidity) are listed in Table E.1. Outlier data that are excluded from statistical evaluations are flagged with an "O" and data that are excluded due to independent evidence of error are flagged with an "R" in the historical database.

Table E.1. Data excluded from statistical analyses.

Parameter	Well	Date	Value (mg/L)	Flag	Note
Boron	MW-101	4/2017	<1.8	O	Laboratory reporting detection limit was nine times higher than normal due to a sample dilution.
Boron	MW-108	5/2019	0.224	R	Suspected laboratory/sampling error; disconfirmed by verification sampling in August 2019.
Calcium	MW-102	9/2017	25.9	O	Statistically low outlier; suspected laboratory error.
Calcium	MW-116	4/2021	144	R	Data were temporarily elevated following a documented leak in the leachate transmission pipeline (LTP) near MW-116.
Calcium	MW-116	6/2021	169	R	Data were temporarily elevated following a documented leak in the LTP near MW-116.
Calcium	MW-116	10/2021	185	R	Data were temporarily elevated following a documented leak in the LTP near MW-116.
Calcium	MW-116	12/2021	190	R	Data were temporarily elevated following a documented leak in the LTP near MW-116.
Chloride	MW-115	1/2016	7.55	O	Statistically high outlier.
Chloride	MW-116	10/2020	7.05	R	Data were temporarily elevated following a documented leak in the LTP near MW-116.
Chloride	MW-116	4/2021	9.09	R	Data were temporarily elevated following a documented leak in the LTP near MW-116.
Chloride	MW-116	10/2021	11.2	R	Data were temporarily elevated following a documented leak in the LTP near MW-116.
Chloride	MW-119	7/2017	6.84	O	Statistically high outlier.
pH	All wells	10/2016	All values	R	Known equipment malfunction.
pH	All wells	1/2017	All values	R	Known equipment malfunction.
pH	MW-102	7/2016	7.7 (su)	R	Known equipment malfunction.
pH	MW-108	7/2016	9.8 (su)	R	Known equipment malfunction.
pH	MW-108	10/2022	6.2 (su)	R	Known equipment malfunction.
pH	MW-113	7/2016	8.1 (su)	R	Known equipment malfunction.
pH	MW-115	7/2016	9.0 (su)	R	Known equipment malfunction.
pH	MW-117	7/2016	7.9 (su)	R	Known equipment malfunction.
pH	MW-118	7/2016	8.0 (su)	R	Known equipment malfunction.
pH	MW-119	10/2022	6.2 (su)	R	Known equipment malfunction.
Sulfate	MW-115	1/2016	14.8	O	Statistically high outlier.

Parameter	Well	Date	Value (mg/L)	Flag	Note
Sulfate	MW-116	4/2021	126	R	Data were temporarily elevated following a documented leak in the LTP near MW-116.
Sulfate	MW-116	10/2021	166	R	Data were temporarily elevated following a documented leak in the LTP near MW-116.
Sulfate	MW-116	12/2021	200	R	Data were temporarily elevated following a documented leak in the LTP near MW-116.
TDS	MW-116	10/2020	537	R	Data were temporarily elevated following a documented leak in the LTP near MW-116.
TDS	MW-116	4/2021	541	R	Data were temporarily elevated following a documented leak in the LTP near MW-116.
TDS	MW-116	10/2021	670	R	Data were temporarily elevated following a documented leak in the LTP near MW-116.
TDS	MW-116	12/2021	730	R	Data were temporarily elevated following a documented leak in the LTP near MW-116.

Screening for Trends in Background Data Sets

EPA guidance recommends screening background populations for statistically significant trends, because some tests (such as a prediction limit test) require a stationary statistical distribution for valid results. The presence of statistically significant tends in background data may violate key assumptions of some statistical tests and require an alternate approach to testing the data. If trends are indicated in background populations, testing strategies that either correct for, or are not sensitive to, temporal variation may be required.

Well-parameter pairs containing statistically significant trends in their background data sets are summarized in Table E.2. The well-parameter pairs below are tested for compliance using the Mann-Kendall test and Theil-Sen trend line as opposed to a prediction limit test. All remaining well-parameter pairs are tested for compliance using prediction limits.

Table E.2. Well-parameter pairs tested with Mann-Kendall test and Theil-Sen trend line.

Parameter	Well(s)
Boron	MW-101, MW-103, MW-108, MW-113, MW-116, MW-118, MW-119
Calcium	MW-102, MW-103
Chloride	MW-102, MW-103, MW-108, MW-113, MW-115
Sulfate	MW-103, MW-113
TDS	MW-103

Any well-parameter pair in Table E.2 that ceases to exhibit a statistically significant trend will be tested using a prediction limit during the following monitoring period, and the background data set will be comprised of the period-of-record data set through the previous sampling date, if appropriate.

Background Date Ranges

Date Ranges

Date: 11/13/2024 12:48 PM

Plum Point Energy Station Client: Plum Point Services Company, LLC Data: PPES EPA CCR Rule Groundwater Database

Antimony (mg/L)
- MW-101 background:10/7/2015-9/20/2017
- MW-102 background:10/7/2015-9/20/2017
- MW-103 background:10/7/2015-9/20/2017
- MW-104 background:10/7/2015-9/20/2024
- MW-108 background:10/7/2015-9/20/2017
- MW-110 background:10/7/2015-9/20/2024
- MW-113 background:10/7/2015-9/20/2017
- MW-115 background:10/7/2015-9/20/2017
- MW-116 background:10/7/2015-9/20/2017
- MW-117 background:10/7/2015-9/20/2017
- MW-118 background:10/7/2015-9/20/2017
- MW-119 background:10/7/2015-8/2/2019
- MW-120 background:10/7/2015-9/20/2024
- MW-121 background:10/7/2015-9/20/2024

Arsenic (mg/L)
- MW-101 background:10/7/2015-9/20/2017
- MW-102 background:10/7/2015-9/20/2017
- MW-103 background:10/7/2015-9/20/2017
- MW-104 background:10/7/2015-9/20/2024
- MW-108 background:10/7/2015-9/20/2017
- MW-110 background:10/7/2015-9/20/2024
- MW-113 background:10/7/2015-9/20/2017
- MW-115 background:10/7/2015-9/20/2017
- MW-116 background:10/7/2015-9/20/2017
- MW-117 background:10/7/2015-9/20/2017
- MW-118 background:10/7/2015-9/20/2017
- MW-119 background:10/7/2015-8/2/2019
- MW-120 background:10/7/2015-9/20/2024
- MW-121 background:10/7/2015-9/20/2024

Barium (mg/L)
- MW-101 background:10/7/2015-9/20/2017
- MW-102 background:10/7/2015-9/20/2017
- MW-103 background:10/7/2015-9/20/2017
- MW-104 background:10/7/2015-9/20/2024
- MW-108 background:10/7/2015-9/20/2017
- MW-110 background:10/7/2015-9/20/2024
- MW-113 background:10/7/2015-9/20/2017
- MW-115 background:10/7/2015-9/20/2017
- MW-116 background:10/7/2015-9/20/2017
- MW-117 background:10/7/2015-9/20/2017
- MW-118 background:10/7/2015-9/20/2017
- MW-119 background:10/7/2015-8/2/2019
- MW-120 background:10/7/2015-9/20/2024
- MW-121 background:10/7/2015-9/20/2024

Beryllium (mg/L)
- MW-101 background:10/7/2015-9/20/2017
- MW-102 background:10/7/2015-9/20/2017
- MW-103 background:10/7/2015-9/20/2017
- MW-104 background:10/7/2015-9/20/2024
- MW-108 background:10/7/2015-9/20/2017
- MW-110 background:10/7/2015-9/20/2024
- MW-113 background:10/7/2015-9/20/2017
- MW-115 background:10/7/2015-9/20/2017
- MW-116 background:10/7/2015-9/20/2017
- MW-117 background:10/7/2015-9/20/2017
- MW-118 background:10/7/2015-9/20/2017
- MW-119 background:10/7/2015-8/2/2019
- MW-120 background:10/7/2015-9/20/2024
- MW-121 background:10/7/2015-9/20/2024

Boron (mg/L)
- MW-101 background:10/7/2015-6/19/2024
- MW-102 background:10/7/2015-6/19/2024
- MW-103 background:10/7/2015-6/19/2024
- MW-104 background:10/7/2015-9/20/2024
- MW-108 background:10/7/2015-6/19/2024
- MW-110 background:10/7/2015-9/20/2024
- MW-113 background:10/7/2015-6/19/2024
- MW-115 background:10/7/2015-6/19/2024
- MW-116 background:10/7/2015-6/19/2024

Date Ranges

Date: 11/13/2024 12:48 PM

Plum Point Energy Station Client: Plum Point Services Company, LLC Data: PPES EPA CCR Rule Groundwater Database

MW-117 background:10/7/2015-6/19/2024
MW-118 background:10/7/2015-6/19/2024
MW-119 background:10/7/2015-6/19/2024
MW-120 background:10/7/2015-9/20/2024
MW-121 background:10/7/2015-9/20/2024

Cadmium (mg/L)

MW-101 background:10/7/2015-9/20/2017
MW-102 background:10/7/2015-9/20/2017
MW-103 background:10/7/2015-9/20/2017
MW-104 background:10/7/2015-9/20/2024
MW-108 background:10/7/2015-9/20/2017
MW-110 background:10/7/2015-9/20/2024
MW-113 background:10/7/2015-9/20/2017
MW-115 background:10/7/2015-9/20/2017
MW-116 background:10/7/2015-9/20/2017
MW-117 background:10/7/2015-9/20/2017
MW-118 background:10/7/2015-9/20/2017
MW-119 background:10/7/2015-8/2/2019
MW-120 background:10/7/2015-9/20/2024
MW-121 background:10/7/2015-9/20/2024

Calcium (mg/L)

MW-101 background:10/7/2015-1/10/2024
MW-102 background:10/7/2015-6/19/2024
MW-103 background:10/7/2015-6/19/2024
MW-104 background:10/7/2015-9/20/2024
MW-108 background:10/7/2015-1/11/2023
MW-110 background:10/7/2015-9/20/2024
MW-113 background:10/7/2015-6/19/2024
MW-115 background:10/7/2015-6/19/2024
MW-116 background:10/7/2015-6/19/2024
MW-117 background:10/7/2015-2/18/2019
MW-118 background:10/7/2015-6/19/2024
MW-119 background:10/7/2015-6/19/2024
MW-120 background:10/7/2015-9/20/2024
MW-121 background:10/7/2015-9/20/2024

Chloride (mg/L)

MW-101 background:10/7/2015-6/19/2024
MW-102 background:10/7/2015-6/19/2024
MW-103 background:10/7/2015-6/19/2024
MW-104 background:10/7/2015-9/20/2024
MW-108 background:10/7/2015-6/19/2024
MW-110 background:10/7/2015-3/14/2024
MW-113 background:10/7/2015-6/19/2024
MW-115 background:10/7/2015-6/19/2024
MW-116 background:10/7/2015-6/19/2024
MW-117 background:10/7/2015-6/19/2024
MW-118 background:10/7/2015-1/11/2023
MW-119 background:10/7/2015-6/19/2024
MW-120 background:10/7/2015-9/20/2024
MW-121 background:10/7/2015-9/20/2024

Chromium (mg/L)

MW-101 background:10/7/2015-9/20/2017
MW-102 background:10/7/2015-9/20/2017
MW-103 background:10/7/2015-9/20/2017
MW-104 background:10/7/2015-9/20/2024
MW-108 background:10/7/2015-9/20/2017
MW-110 background:10/7/2015-9/20/2024
MW-113 background:10/7/2015-9/20/2017
MW-115 background:10/7/2015-9/20/2017
MW-116 background:10/7/2015-9/20/2017
MW-117 background:10/7/2015-9/20/2017
MW-118 background:10/7/2015-9/20/2017
MW-119 background:10/7/2015-8/2/2019
MW-120 background:10/7/2015-9/20/2024
MW-121 background:10/7/2015-9/20/2024

Cobalt (mg/L)

MW-101 background:10/7/2015-9/20/2017
MW-102 background:10/7/2015-9/20/2017
MW-103 background:10/7/2015-9/20/2017
MW-104 background:10/7/2015-9/20/2024

Date Ranges

Date: 11/13/2024 12:48 PM

Plum Point Energy Station Client: Plum Point Services Company, LLC Data: PPES EPA CCR Rule Groundwater Database

MW-108 background:10/7/2015-9/20/2017
MW-110 background:10/7/2015-9/20/2024
MW-113 background:10/7/2015-9/20/2017
MW-115 background:10/7/2015-9/20/2017
MW-116 background:10/7/2015-9/20/2017
MW-117 background:10/7/2015-9/20/2017
MW-118 background:10/7/2015-9/20/2017
MW-119 background:10/7/2015-8/2/2019
MW-120 background:10/7/2015-9/20/2024
MW-121 background:10/7/2015-9/20/2024

Dissolved Solids (mg/L)

MW-101 background:10/7/2015-1/11/2023
MW-102 background:10/7/2015-1/11/2023
MW-103 background:10/7/2015-6/19/2024
MW-104 background:10/7/2015-9/20/2024
MW-108 background:10/7/2015-6/19/2024
MW-110 background:10/7/2015-9/20/2024
MW-113 background:10/7/2015-6/19/2024
MW-115 background:10/7/2015-6/19/2024
MW-116 background:10/7/2015-6/19/2024
MW-117 background:10/7/2015-2/18/2019
MW-118 background:10/7/2015-6/19/2024
MW-119 background:10/7/2015-6/19/2024
MW-120 background:10/7/2015-9/20/2024
MW-121 background:10/7/2015-9/20/2024

Fluoride (mg/L)

MW-101 background:10/7/2015-6/19/2024
MW-102 background:10/7/2015-6/19/2024
MW-103 background:10/7/2015-6/19/2024
MW-104 background:10/7/2015-9/20/2024
MW-108 background:10/7/2015-6/19/2024
MW-110 background:10/7/2015-9/20/2024
MW-113 background:10/7/2015-6/19/2024
MW-115 background:10/7/2015-6/19/2024
MW-116 background:10/7/2015-6/19/2024
MW-117 background:10/7/2015-6/19/2024
MW-118 background:10/7/2015-6/19/2024
MW-119 background:10/7/2015-6/19/2024
MW-120 background:10/7/2015-8/15/2024
MW-121 background:10/7/2015-9/20/2024

Lead (mg/L)

MW-101 background:10/7/2015-9/20/2017
MW-102 background:10/7/2015-9/20/2017
MW-103 background:10/7/2015-9/20/2017
MW-104 background:10/7/2015-9/20/2024
MW-108 background:10/7/2015-9/20/2017
MW-110 background:10/7/2015-9/20/2024
MW-113 background:10/7/2015-9/20/2017
MW-115 background:10/7/2015-9/20/2017
MW-116 background:10/7/2015-9/20/2017
MW-117 background:10/7/2015-9/20/2017
MW-118 background:10/7/2015-9/20/2017
MW-119 background:10/7/2015-8/2/2019
MW-120 background:10/7/2015-9/20/2024
MW-121 background:10/7/2015-9/20/2024

Lithium (mg/L)

MW-101 background:10/7/2015-9/20/2017
MW-102 background:10/7/2015-9/20/2017
MW-103 background:10/7/2015-9/20/2017
MW-104 background:10/7/2015-9/20/2024
MW-108 background:10/7/2015-9/20/2017
MW-110 background:10/7/2015-9/20/2024
MW-113 background:10/7/2015-9/20/2017
MW-115 background:10/7/2015-9/20/2017
MW-116 background:10/7/2015-9/20/2017
MW-117 background:10/7/2015-9/20/2017
MW-118 background:10/7/2015-9/20/2017
MW-119 background:10/7/2015-8/2/2019
MW-120 background:10/7/2015-9/20/2024
MW-121 background:10/7/2015-9/20/2024

Date Ranges

Date: 11/13/2024 12:48 PM

Plum Point Energy Station Client: Plum Point Services Company, LLC Data: PPES EPA CCR Rule Groundwater Database

Mercury (mg/L)
- MW-101 background:10/7/2015-9/20/2017
- MW-102 background:10/7/2015-9/20/2017
- MW-103 background:10/7/2015-9/20/2017
- MW-104 background:10/7/2015-9/20/2024
- MW-108 background:10/7/2015-9/20/2017
- MW-110 background:10/7/2015-9/20/2024
- MW-113 background:10/7/2015-9/20/2017
- MW-115 background:10/7/2015-9/20/2017
- MW-116 background:10/7/2015-9/20/2017
- MW-117 background:10/7/2015-9/20/2017
- MW-118 background:10/7/2015-9/20/2017
- MW-119 background:10/7/2015-8/2/2019
- MW-120 background:10/7/2015-9/20/2024
- MW-121 background:10/7/2015-9/20/2024

Molybdenum (mg/L)
- MW-101 background:10/7/2015-9/20/2017
- MW-102 background:10/7/2015-9/20/2017
- MW-103 background:10/7/2015-9/20/2017
- MW-104 background:10/7/2015-9/20/2024
- MW-108 background:10/7/2015-9/20/2017
- MW-110 background:10/7/2015-9/20/2024
- MW-113 background:10/7/2015-9/20/2017
- MW-115 background:10/7/2015-9/20/2017
- MW-116 background:10/7/2015-9/20/2017
- MW-117 background:10/7/2015-9/20/2017
- MW-118 background:10/7/2015-9/20/2017
- MW-119 background:10/7/2015-8/2/2019
- MW-120 background:10/7/2015-9/20/2024
- MW-121 background:10/7/2015-9/20/2024

pH (su)
- MW-101 background:10/7/2015-6/19/2024
- MW-102 background:10/7/2015-6/19/2024
- MW-103 background:10/7/2015-6/19/2024
- MW-104 background:10/7/2015-9/20/2024
- MW-108 background:10/7/2015-6/19/2024
- MW-110 background:10/7/2015-9/20/2024
- MW-113 background:10/7/2015-6/19/2024
- MW-115 background:10/7/2015-6/19/2024
- MW-116 background:10/7/2015-6/19/2024
- MW-117 background:10/7/2015-6/19/2024
- MW-118 background:10/7/2015-6/19/2024
- MW-119 background:10/7/2015-6/19/2024
- MW-120 background:10/7/2015-9/20/2024
- MW-121 background:10/7/2015-9/20/2024

Radium (pCi/L)
- MW-101 background:10/7/2015-9/20/2017
- MW-102 background:10/7/2015-9/20/2017
- MW-103 background:10/7/2015-9/20/2017
- MW-104 background:10/7/2015-9/20/2024
- MW-108 background:10/7/2015-9/20/2017
- MW-110 background:10/7/2015-9/20/2024
- MW-113 background:10/7/2015-9/20/2017
- MW-115 background:10/7/2015-9/20/2017
- MW-116 background:10/7/2015-9/20/2017
- MW-117 background:10/7/2015-9/20/2017
- MW-118 background:10/7/2015-9/20/2017
- MW-119 background:10/7/2015-8/2/2019
- MW-120 background:10/7/2015-9/20/2024
- MW-121 background:10/7/2015-9/20/2024

Selenium (mg/L)
- MW-101 background:10/7/2015-9/20/2017
- MW-102 background:10/7/2015-9/20/2017
- MW-103 background:10/7/2015-9/20/2017
- MW-104 background:10/7/2015-9/20/2024
- MW-108 background:10/7/2015-9/20/2017
- MW-110 background:10/7/2015-9/20/2024
- MW-113 background:10/7/2015-9/20/2017
- MW-115 background:10/7/2015-9/20/2017
- MW-116 background:10/7/2015-9/20/2017

MW-117 background:10/7/2015-9/20/2017
MW-118 background:10/7/2015-9/20/2017
MW-119 background:10/7/2015-8/2/2019
MW-120 background:10/7/2015-9/20/2024
MW-121 background:10/7/2015-9/20/2024

Sulfate (mg/L)

MW-101 background:10/7/2015-1/11/2023
MW-102 background:10/7/2015-6/19/2024
MW-103 background:10/7/2015-6/19/2024
MW-104 background:10/7/2015-9/20/2024
MW-108 background:10/7/2015-6/19/2024
MW-110 background:10/7/2015-9/20/2024
MW-113 background:10/7/2015-6/19/2024
MW-115 background:10/7/2015-6/19/2024
MW-116 background:10/7/2015-6/19/2024
MW-117 background:10/7/2015-10/23/2019
MW-118 background:10/7/2015-6/19/2024
MW-119 background:10/7/2015-6/19/2024
MW-120 background:10/7/2015-9/20/2024
MW-121 background:10/7/2015-9/20/2024

Thallium (mg/L)

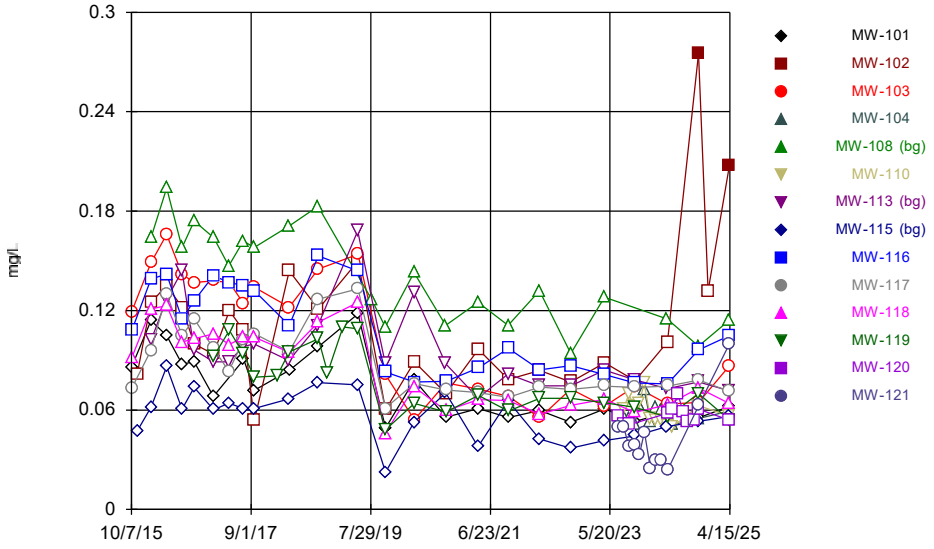
MW-101 background:10/7/2015-9/20/2017
MW-102 background:10/7/2015-9/20/2017
MW-103 background:10/7/2015-9/20/2017
MW-104 background:10/7/2015-9/20/2024
MW-108 background:10/7/2015-9/20/2017
MW-110 background:10/7/2015-9/20/2024
MW-113 background:10/7/2015-9/20/2017
MW-115 background:10/7/2015-9/20/2017
MW-116 background:10/7/2015-9/20/2017
MW-117 background:10/7/2015-9/20/2017
MW-118 background:10/7/2015-9/20/2017
MW-119 background:10/7/2015-8/2/2019
MW-120 background:10/7/2015-9/20/2024
MW-121 background:10/7/2015-9/20/2024

APPENDIX F
EXPLORATORY DATA ANALYSIS PLOTS

TIME-SERIES PLOTS, FIRST HALF OF 2025 DATA SET

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG
Hollow symbols indicate censored values.

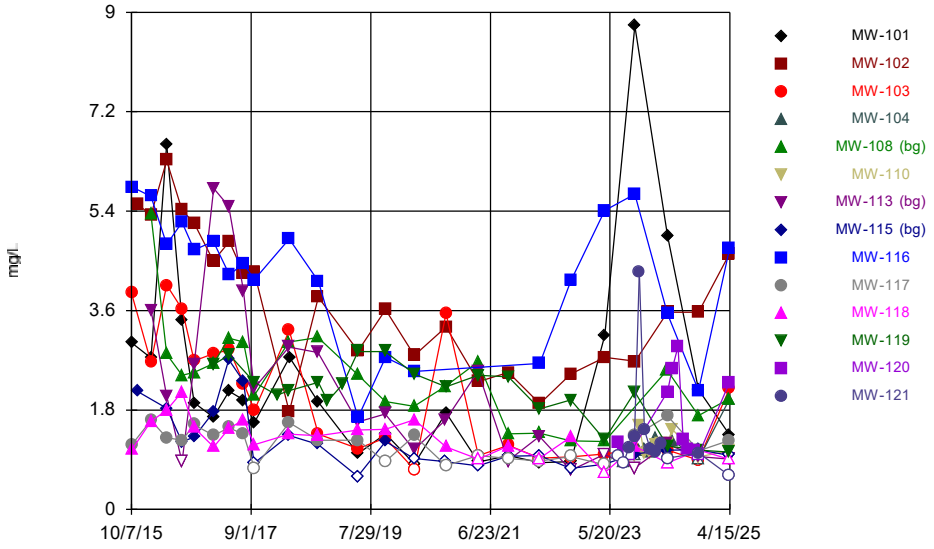
Time Series



Constituent: Boron Analysis Run 4/24/2025 12:26 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG
Hollow symbols indicate censored values.

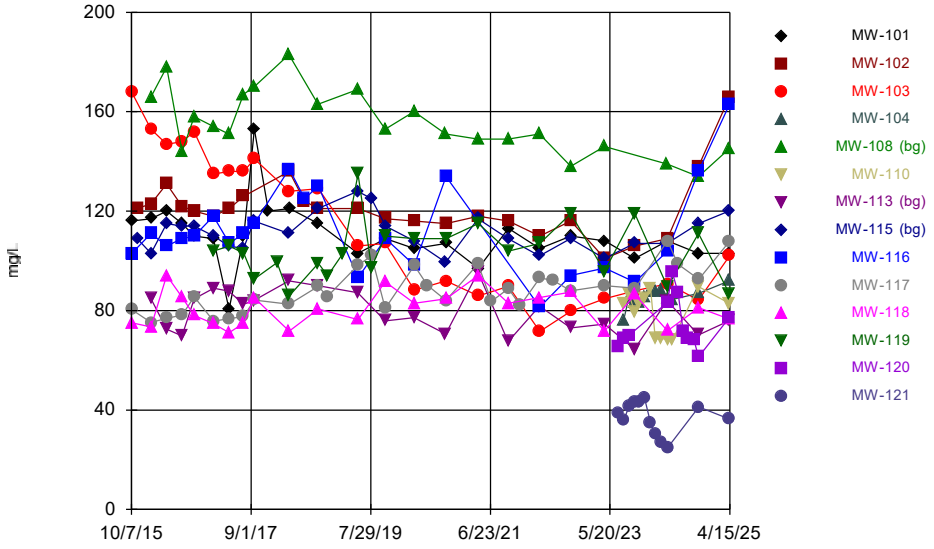
Time Series



Constituent: Chloride Analysis Run 4/24/2025 12:26 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

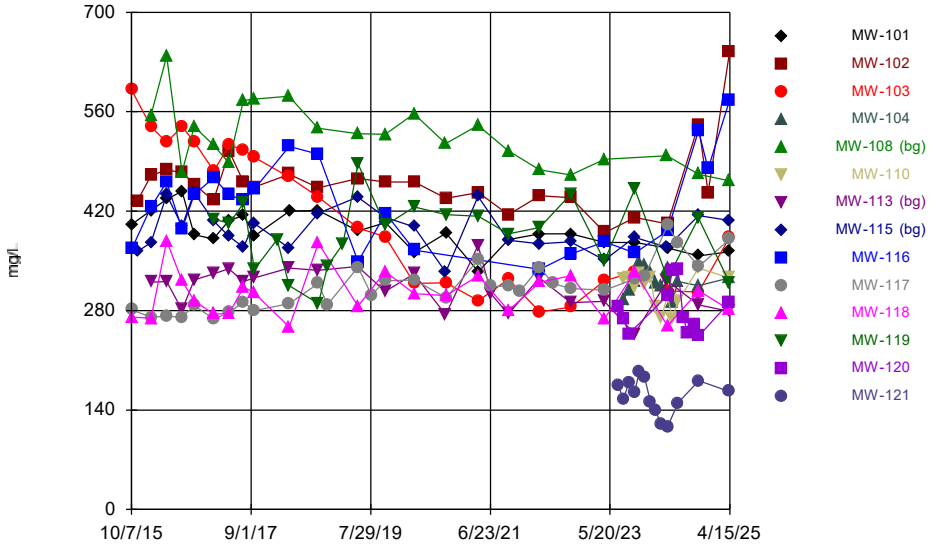
Time Series



Constituent: Calcium Analysis Run 4/24/2025 12:26 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

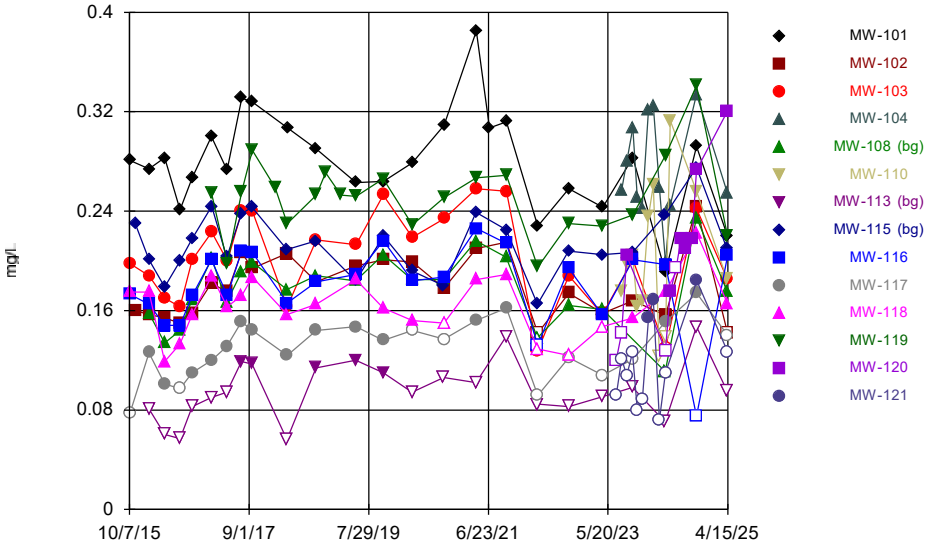
Time Series



Constituent: Dissolved Solids Analysis Run 4/24/2025 12:26 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG
Hollow symbols indicate censored values.

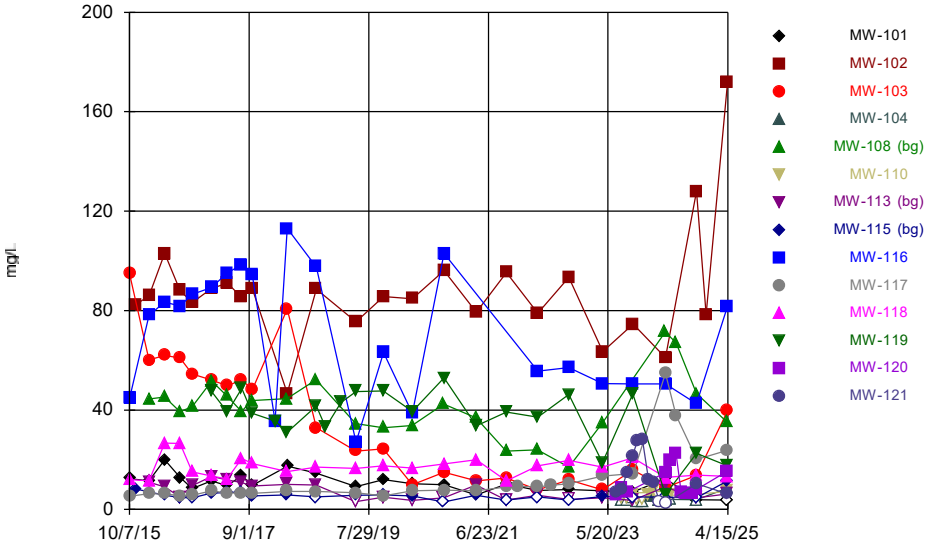
Time Series



Constituent: Fluoride Analysis Run 4/24/2025 12:26 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG
Hollow symbols indicate censored values.

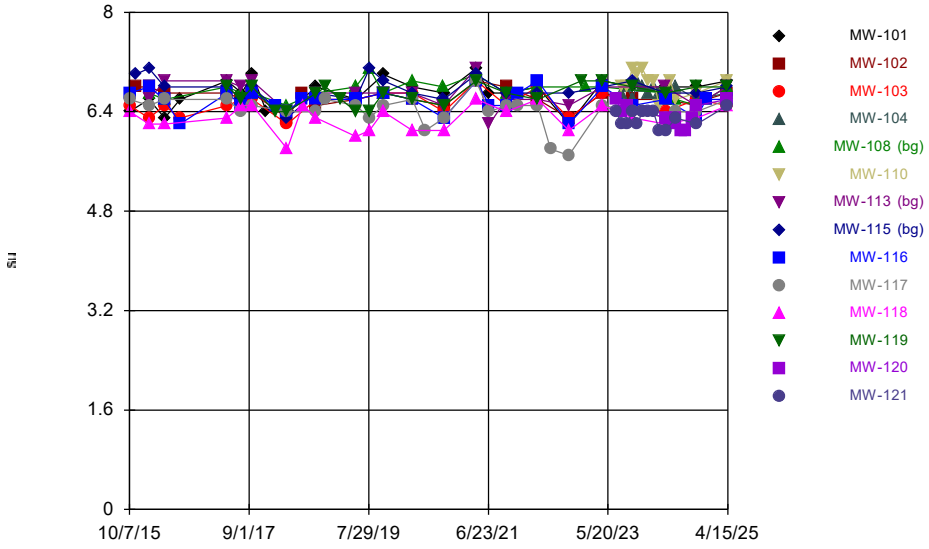
Time Series



Constituent: Sulfate Analysis Run 4/24/2025 12:26 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.03a Software licensed to Olsson. UG

Time Series

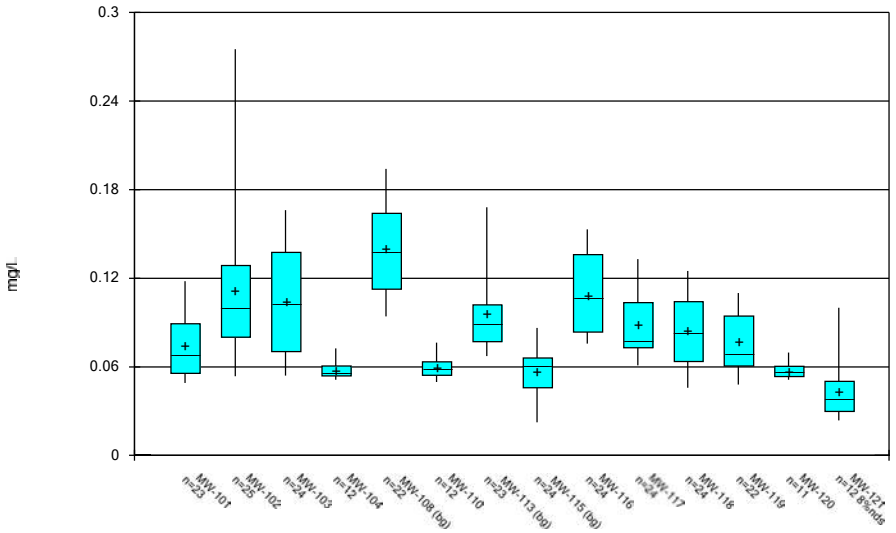


Constituent: pH Analysis Run 1/7/2026 2:46 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

BOX-AND-WHISKER PLOTS
FIRST HALF OF 2025 DATA SET

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

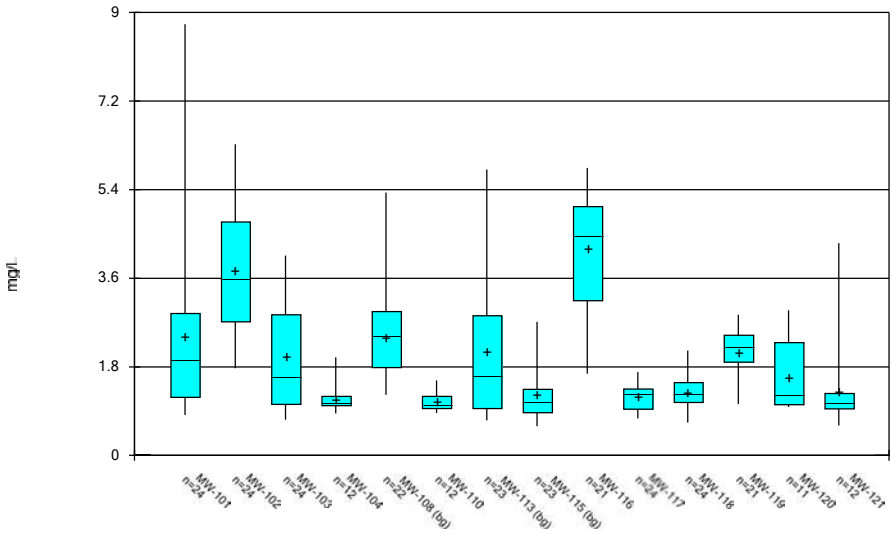
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/24/2025 12:27 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

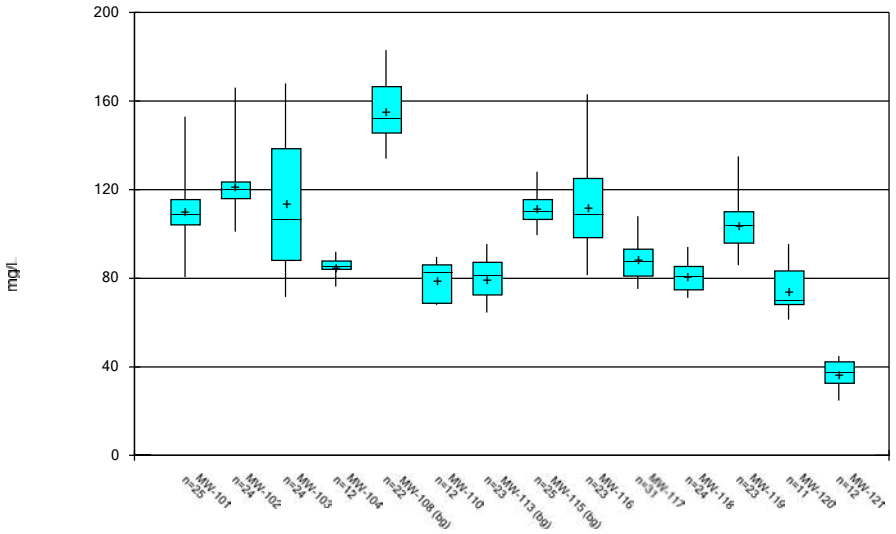
Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/24/2025 12:27 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

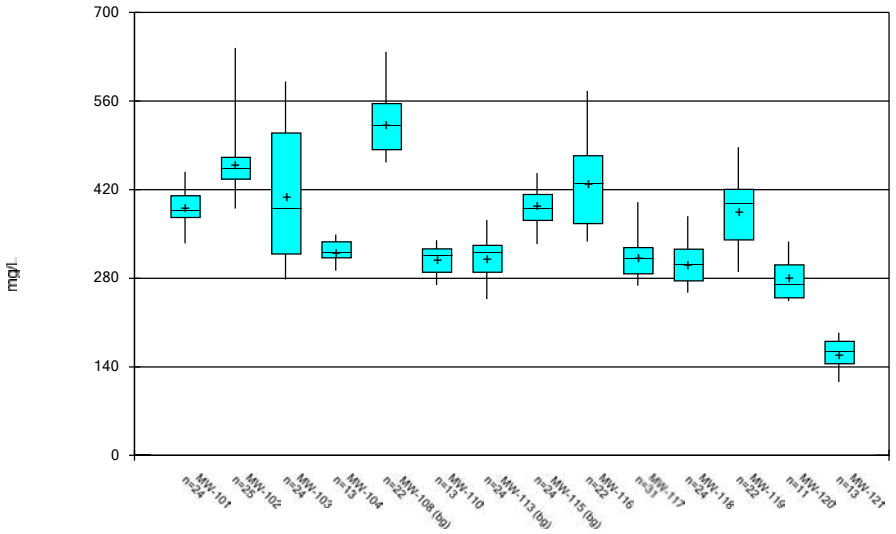
Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/24/2025 12:27 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

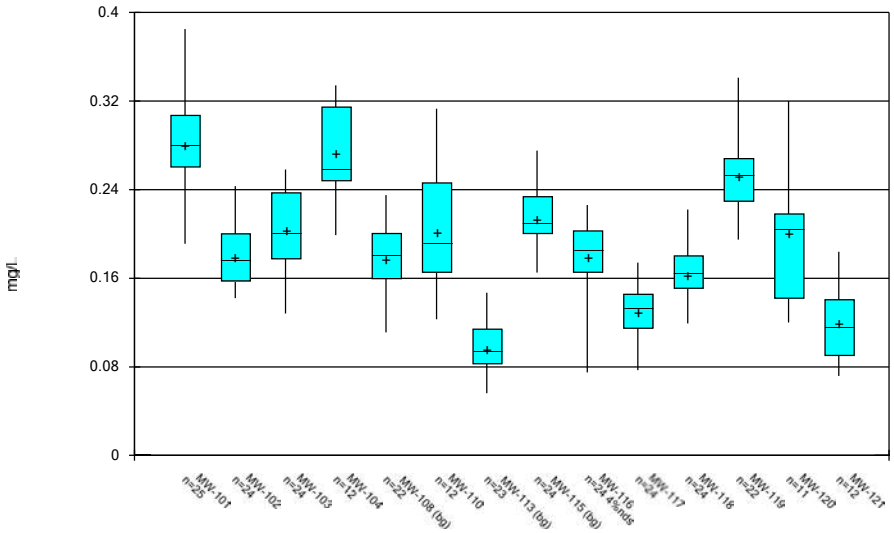
Box & Whiskers Plot



Constituent: Dissolved Solids Analysis Run 4/24/2025 12:27 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

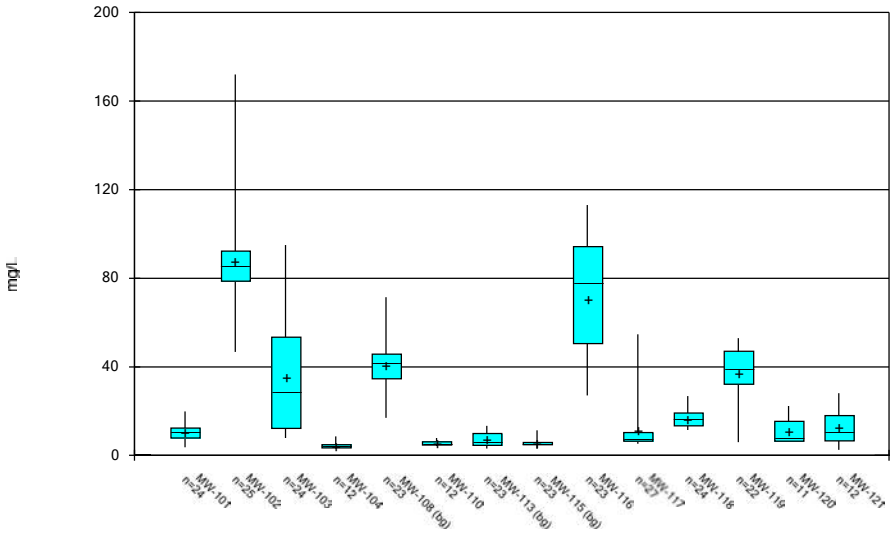
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/24/2025 12:27 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

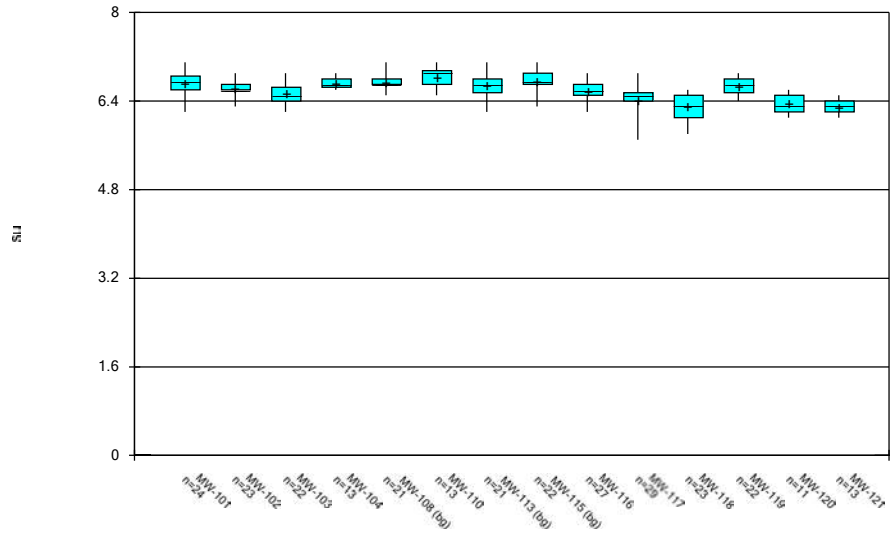
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 4/24/2025 12:27 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.03a Software licensed to Olsson. UG

Box & Whiskers Plot

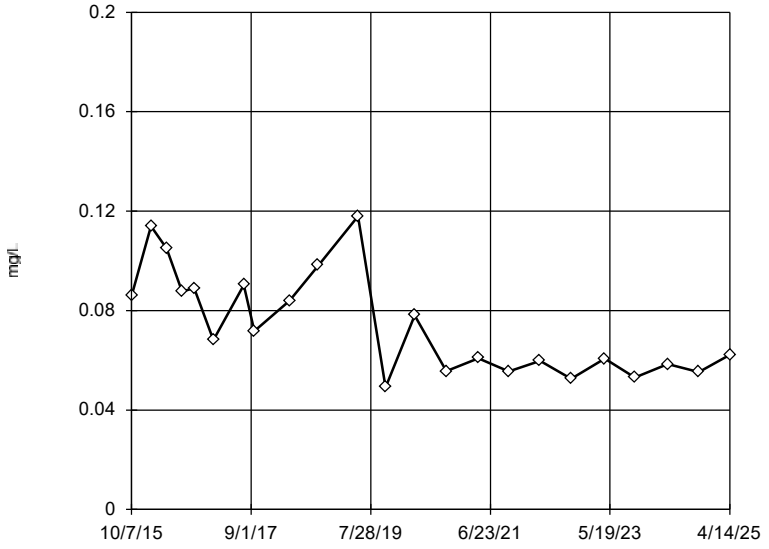


Constituent: pH Analysis Run 1/7/2026 3:00 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

OUTLIER PLOTS
PERIOD-OF-RECORD DATA THROUGH FIRST HALF OF 2025 DATA SET

Tukey's Outlier Screening

MW-101



n = 23

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

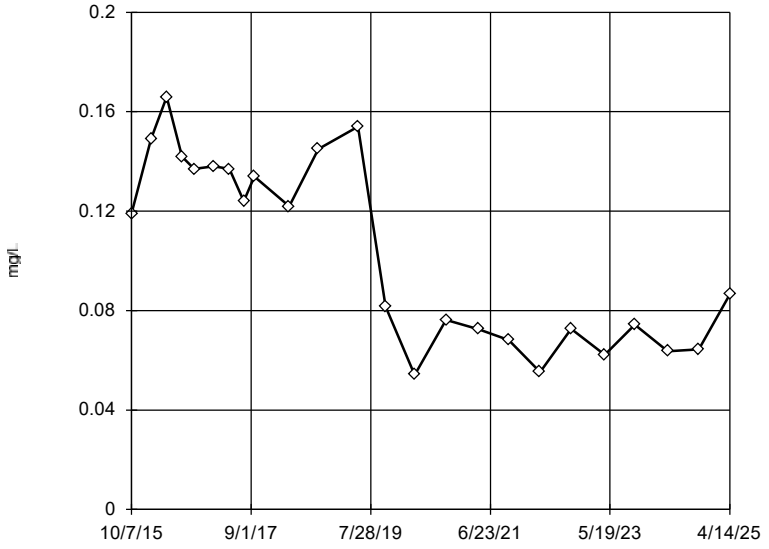
High cutoff = 0.365, low cutoff = 0.01356, based on IQR multiplier of 3.

Constituent: Boron Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.03a Software licensed to Olsson. UG

Tukey's Outlier Screening

MW-103



n = 24

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

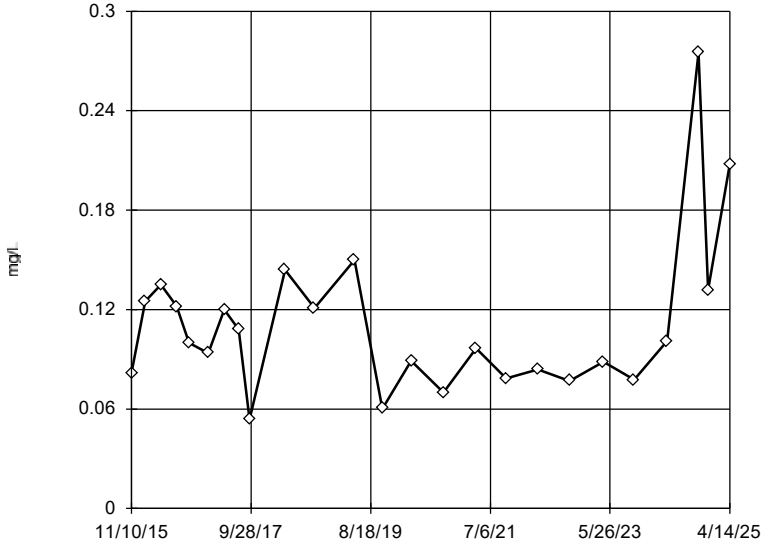
High cutoff = 1.028, low cutoff = 0.009403, based on IQR multiplier of 3.

Constituent: Boron Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-102



n = 25

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.1116, std. dev. 0.04772, critical Tn 2.663

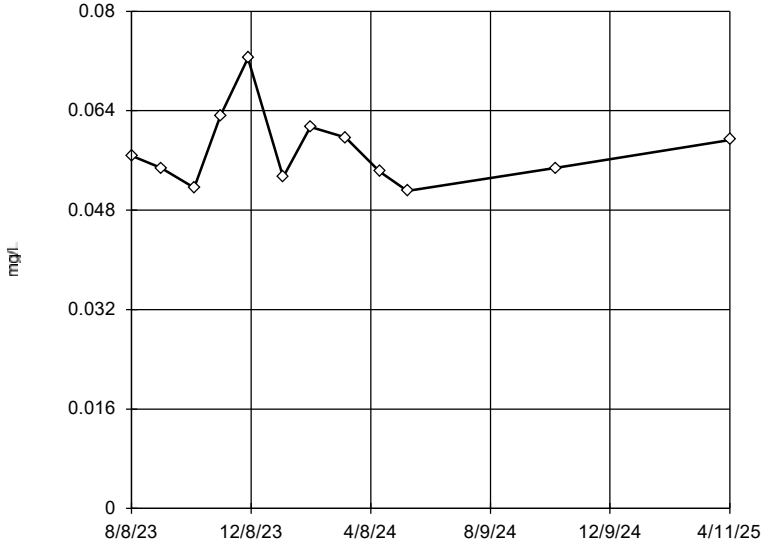
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9643
Critical = 0.931 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Boron Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.03a Software licensed to Olsson. UG

Dixon's Outlier Test

MW-104



n = 12

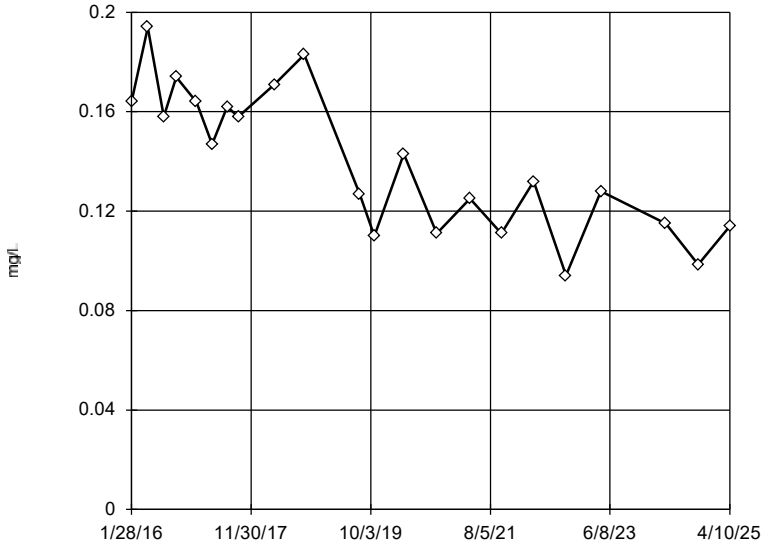
No statistical outliers.
Testing for 1 high outlier.
Mean = 0.05773.
Std. Dev. = 0.006027.
0.0725 (J): c = 0.5311
tabl = 0.546.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9435
Critical = 0.876
The distribution was found to be normally distributed.

Constituent: Boron Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Dixon's Test)

MW-108 (bg)



n = 22

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.1402, std. dev. 0.0289, critical Tn 2.603

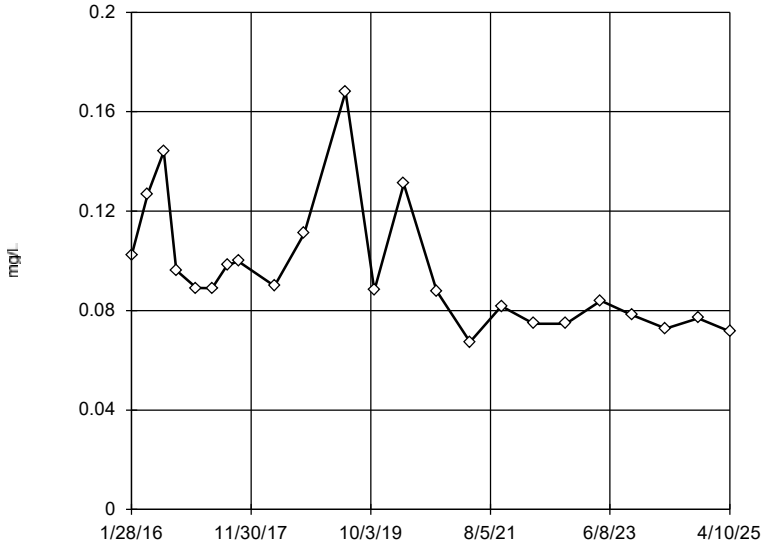
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9545
Critical = 0.926
The distribution was found to be normally distributed.

Constituent: Boron Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-113 (bg)



n = 23

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

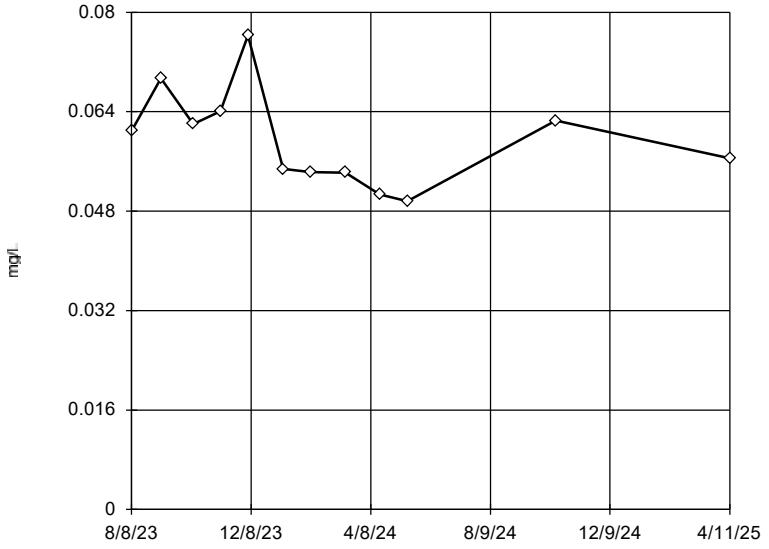
High cutoff = 0.238, low cutoff = 0.03295, based on IQR multiplier of 3.

Constituent: Boron Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-110



n = 12

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.05962, std. dev. 0.007867, critical Tn 2.285

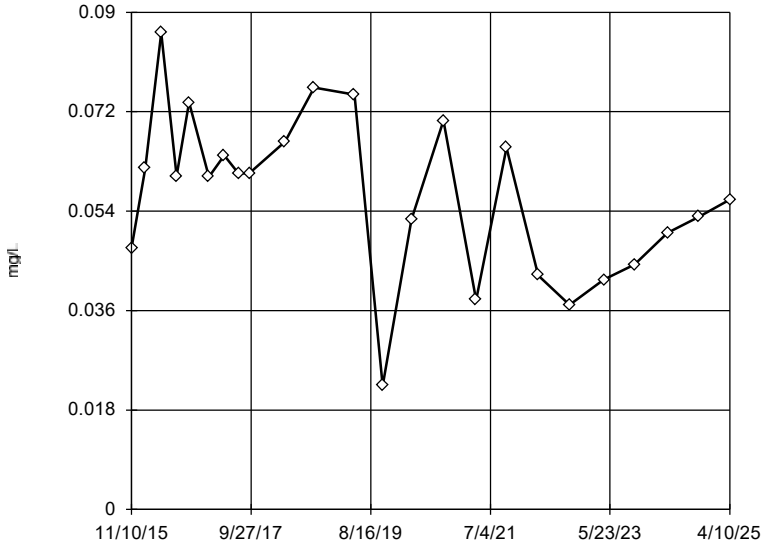
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9383
Critical = 0.883
The distribution was found to be normally distributed.

Constituent: Boron Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Rosner's Outlier Test

MW-115 (bg)



n = 24

No statistical outliers.

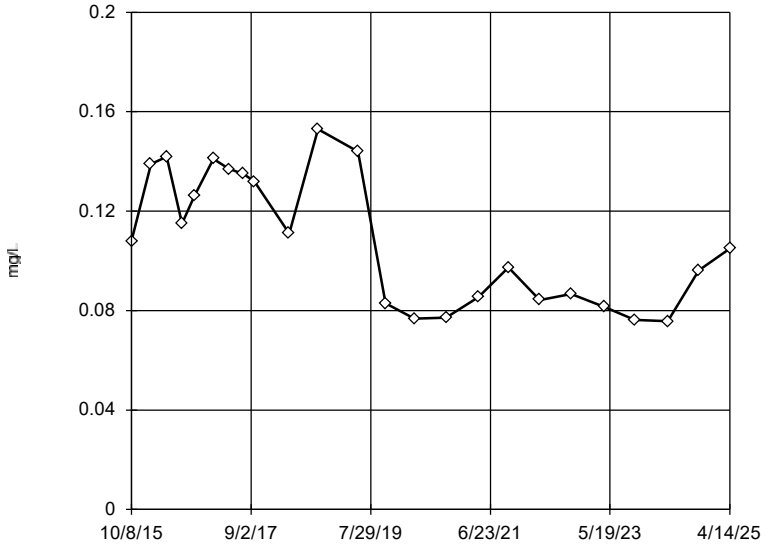
k = 1
r = 2.329
Tabulated value = 2.824
Alpha = 0.01

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9753
Critical = 0.928
The distribution was found to be normally distributed.

Constituent: Boron Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Tukey's Outlier Screening

MW-116



n = 24

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

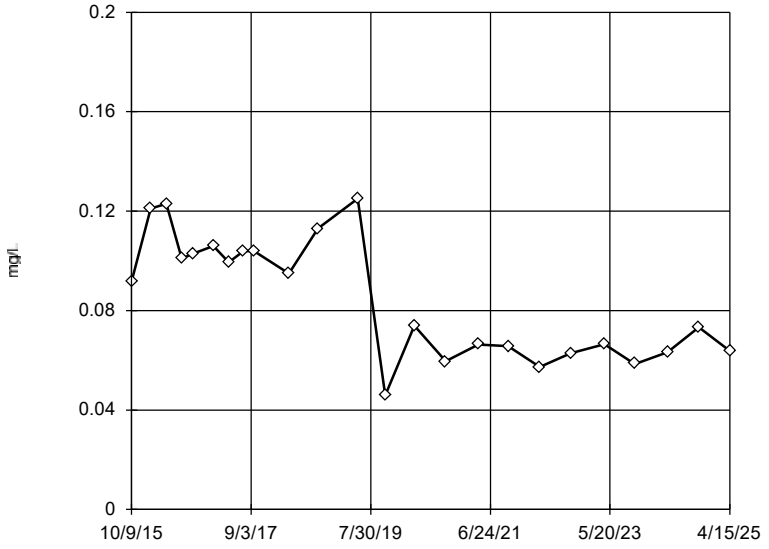
High cutoff = 0.4144, low cutoff = 0.008729, based on IQR multiplier of 3.

Constituent: Boron Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-118



n = 24

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

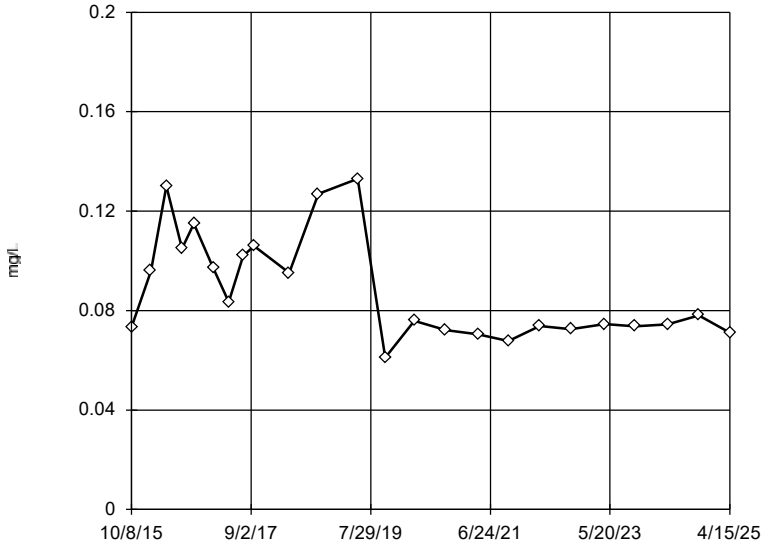
High cutoff = 0.4569, low cutoff = 0.01445, based on IQR multiplier of 3.

Constituent: Boron Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-117



n = 24

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

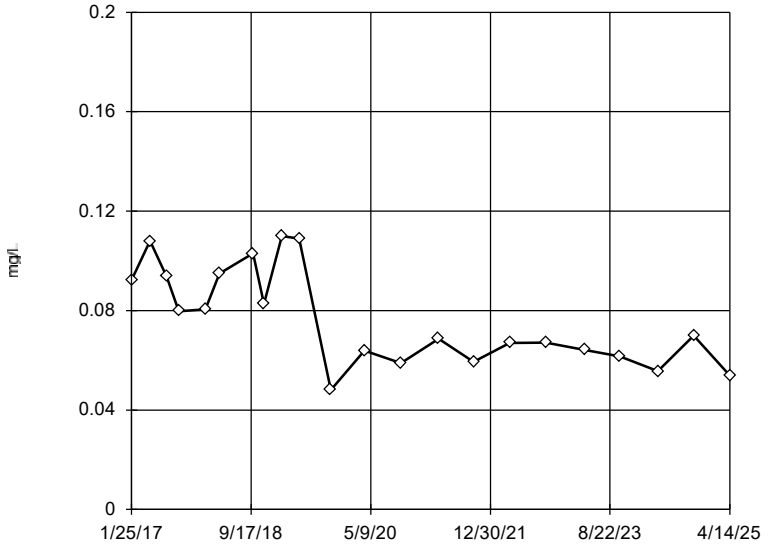
High cutoff = 0.2961, low cutoff = 0.02548, based on IQR multiplier of 3.

Constituent: Boron Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-119



n = 22

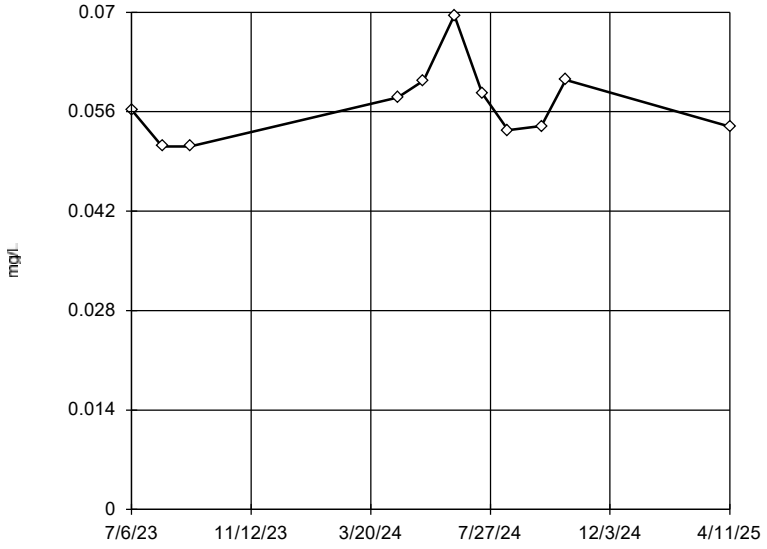
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.0769, std. dev. 0.01951, critical Tn 2.603

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9456
Critical = 0.926 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Boron Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Dixon's Outlier Test

MW-120



n = 11

No statistical outliers.
Testing for 1 high outlier.
Mean = 0.05699.
Std. Dev. = 0.005365.
0.0696 (J): c = 0.4973
tabl = 0.576.
Alpha = 0.05.

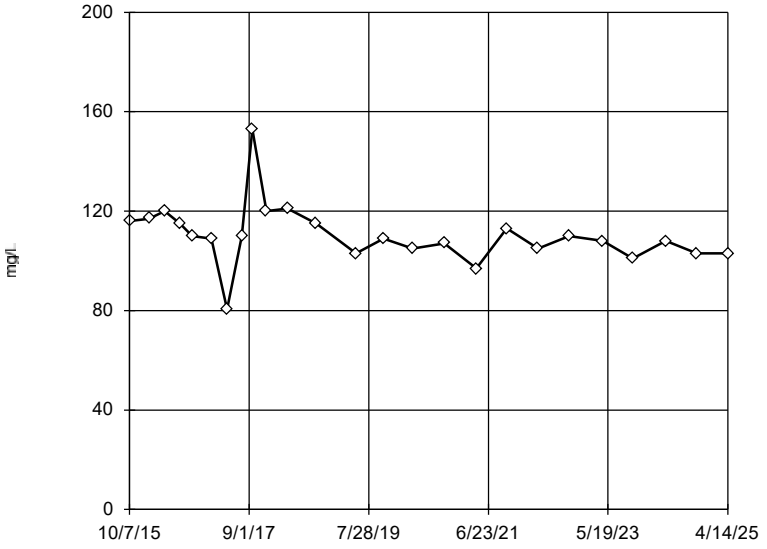
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9145
Critical = 0.869
The distribution was found to be normally distributed.

Constituent: Boron Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-101



n = 25

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

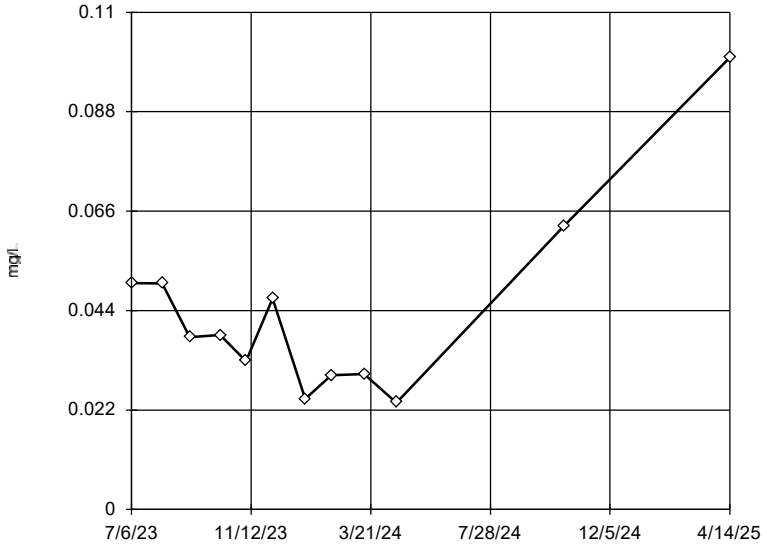
High cutoff = 158.2, low cutoff = 75.91, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-121



n = 12

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.0439, std. dev. 0.02123, critical Tn 2.285

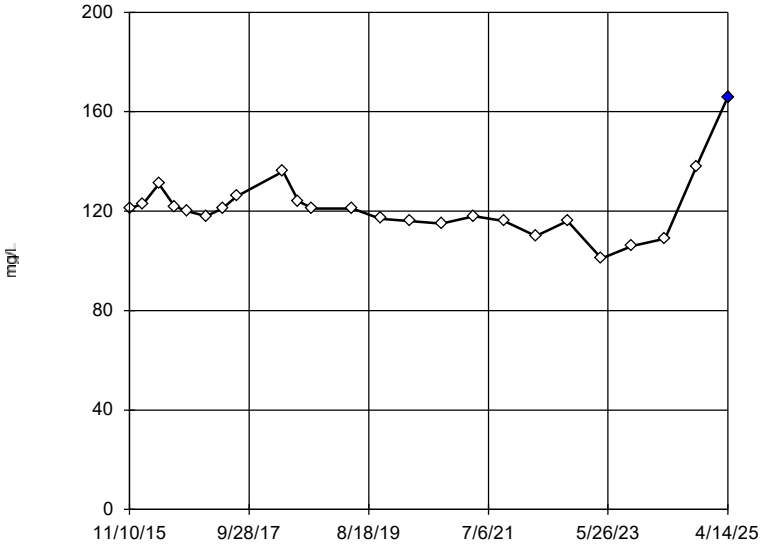
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9452
Critical = 0.883 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Boron Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Rosner's Outlier Test

MW-102



n = 24

Statistical outlier is drawn as solid.

k = 1
r = 3.516
Tabulated value = 2.824
Alpha = 0.01

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9606
Critical = 0.928
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Calcium Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Tukey's Outlier Screening

MW-103



n = 24

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

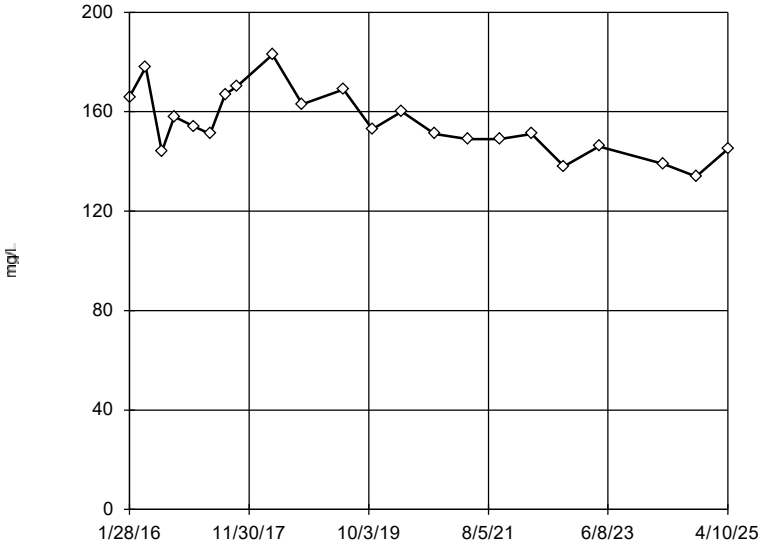
High cutoff = 537.8, low cutoff = 22.69, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-108 (bg)



n = 22

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 155.4, std. dev. 12.92, critical Tn 2.603

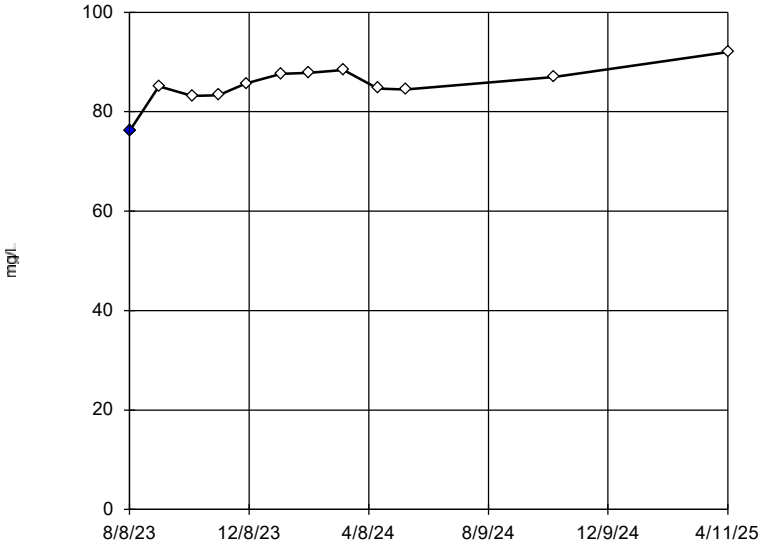
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9699
Critical = 0.926
The distribution was found to be normally distributed.

Constituent: Calcium Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Dixon's Outlier Test

MW-104



n = 12

Statistical outlier is drawn as solid.
Testing for 1 low outlier.
Mean = 85.45.
Std. Dev. = 3.848.
76.1: c = 0.5854
tabl = 0.546.
Alpha = 0.05.

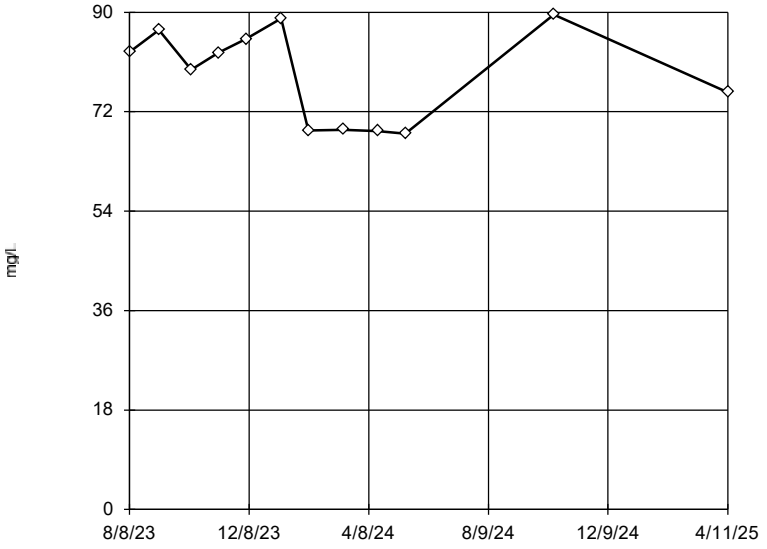
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9268
Critical = 0.876
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Calcium Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-110



n = 12

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

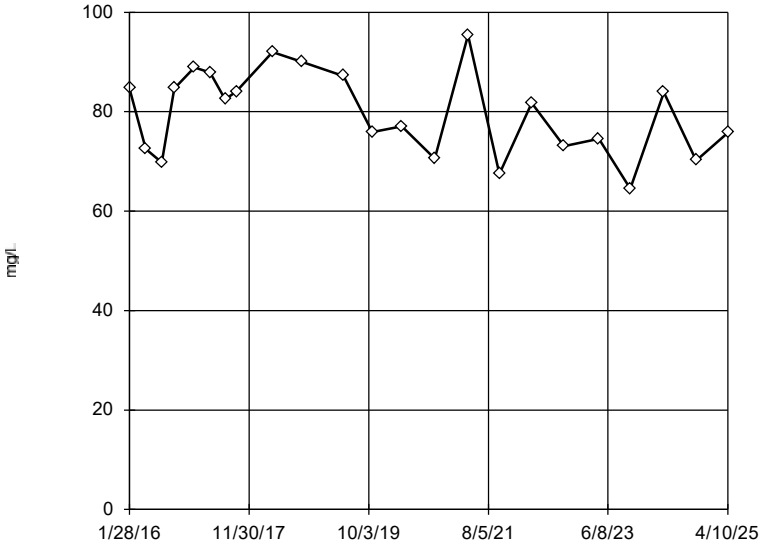
Data were x^6 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 104.6, low cutoff = -96.28, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Rosner's Test)

MW-113 (bg)



n = 23

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 79.77, std. dev. 8.581, critical Tn 2.624

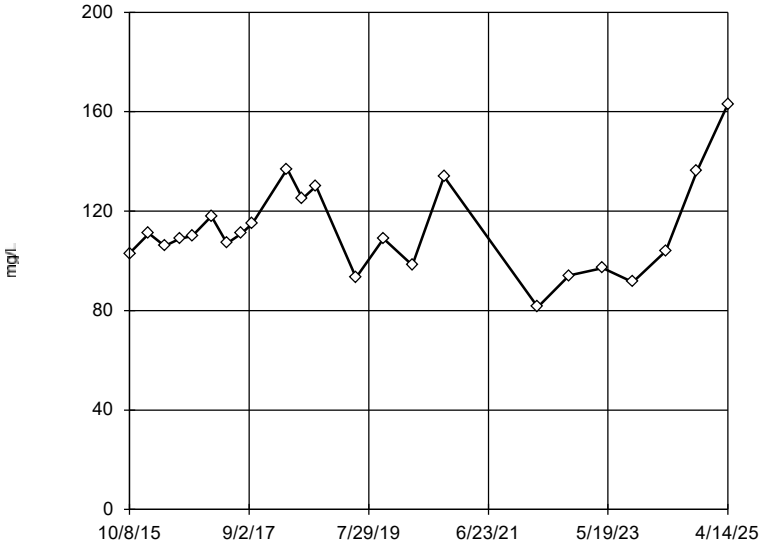
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9656
Critical = 0.928
The distribution was found to be normally distributed.

Constituent: Calcium Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-116



n = 23

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 112.3, std. dev. 18.46, critical Tn 2.624

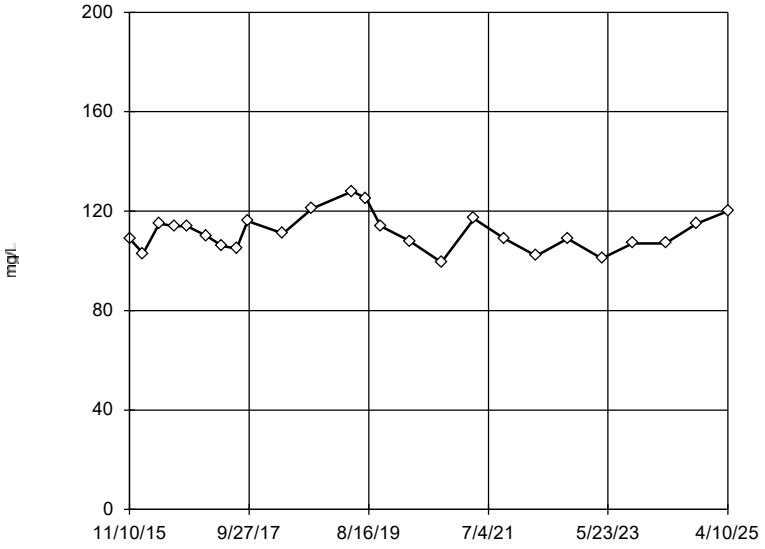
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9423
Critical = 0.928
The distribution was found to be normally distributed.

Constituent: Calcium Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-115 (bg)



n = 25

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 111.4, std. dev. 7.292, critical Tn 2.663

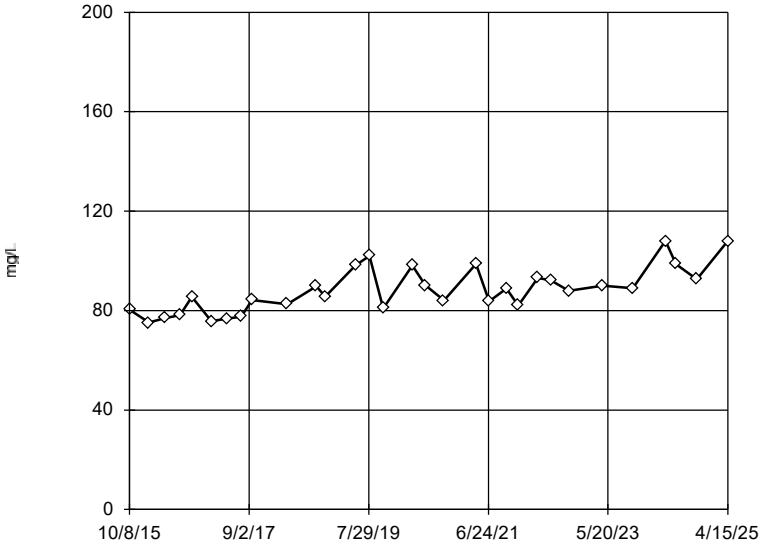
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9711
Critical = 0.931
The distribution was found to be normally distributed.

Constituent: Calcium Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-117



n = 31

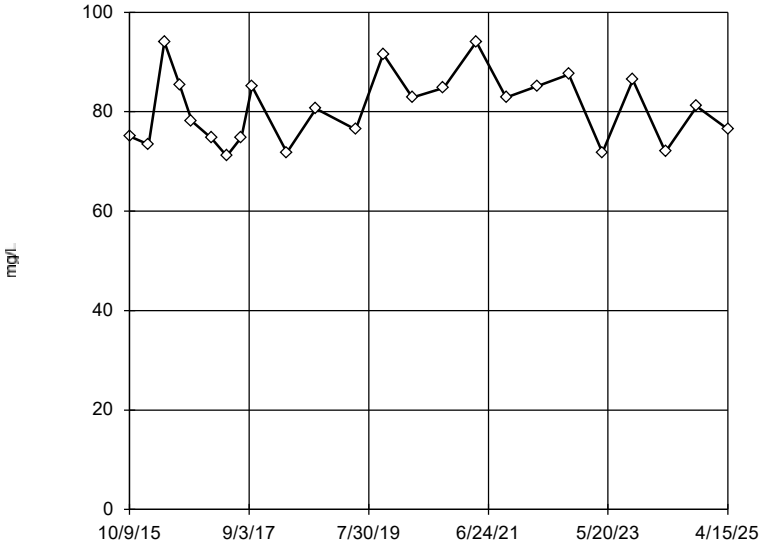
Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 88.22, std. dev. 9.158, critical Tn 2.759

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9445
Critical = 0.94
The distribution was found to be normally distributed.

Constituent: Calcium Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Rosner's Test)

MW-118



n = 24

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 80.73, std. dev. 7.133, critical Tn 2.644

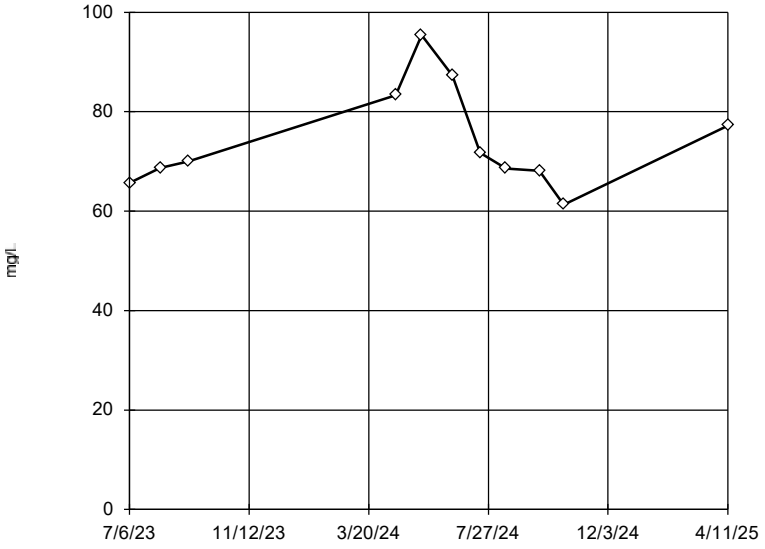
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9328
Critical = 0.93
The distribution was found to be normally distributed.

Constituent: Calcium Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-120



n = 11

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 74.3, std. dev. 10.36, critical Tn 2.234

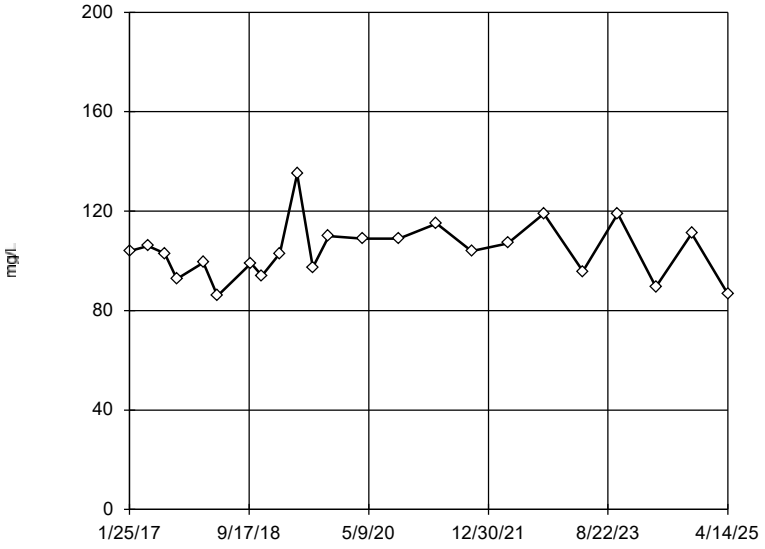
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9023
Critical = 0.876
The distribution was found to be normally distributed.

Constituent: Calcium Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-119



n = 23

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 104.1, std. dev. 11.49, critical Tn 2.624

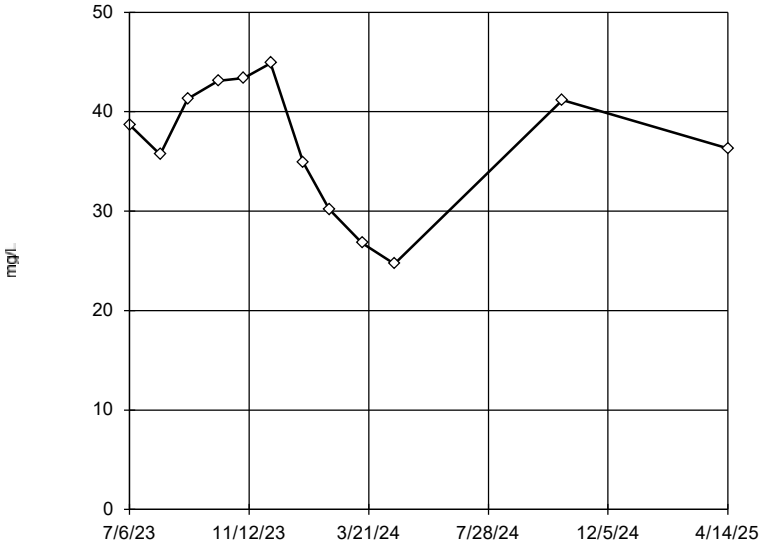
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9634
Critical = 0.928
The distribution was found to be normally distributed.

Constituent: Calcium Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-121



n = 12

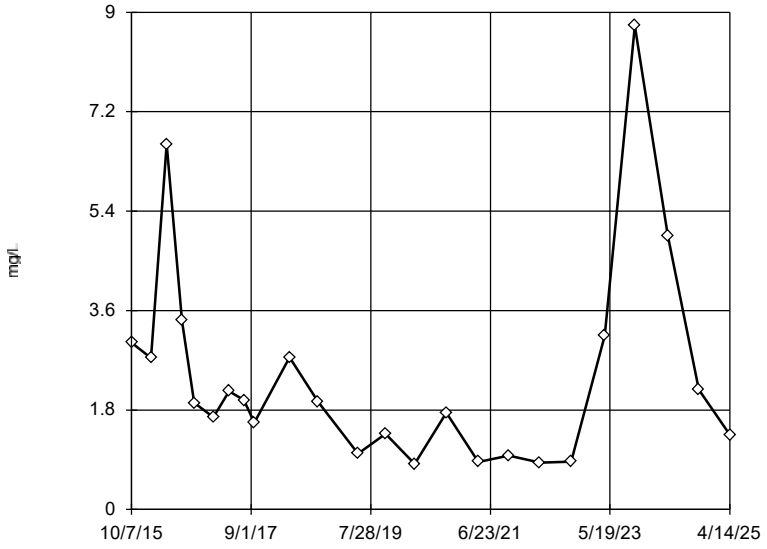
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 36.77, std. dev. 6.655, critical Tn 2.285

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9228
Critical = 0.883
The distribution was found to be normally distributed.

Constituent: Calcium Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Rosner's Test)

MW-101



n = 24

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 2.443, std. dev. 1.923, critical Tn 2.644

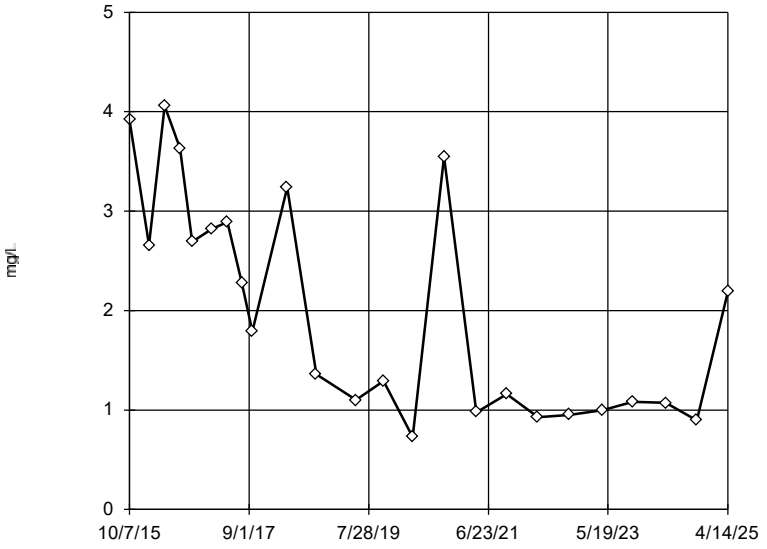
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9455
Critical = 0.93 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Chloride Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-103



n = 24

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

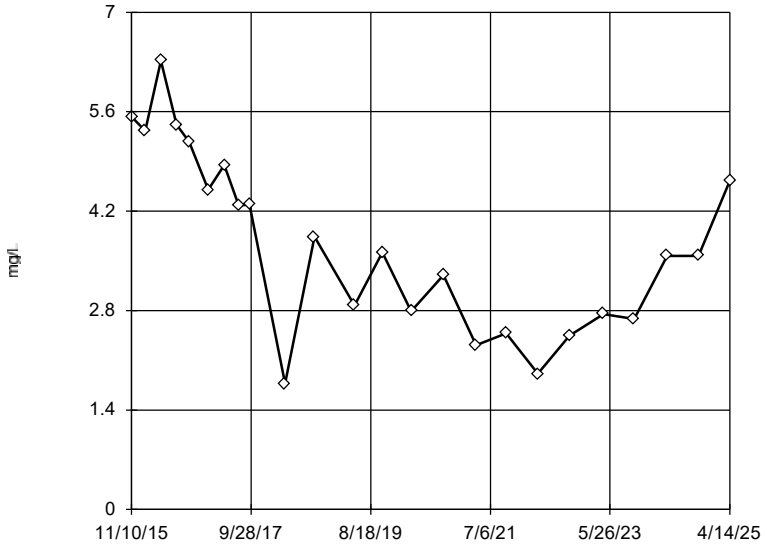
High cutoff = 60.01, low cutoff = 0.04921, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-102



n = 24

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 3.76, std. dev. 1.269, critical Tn 2.644

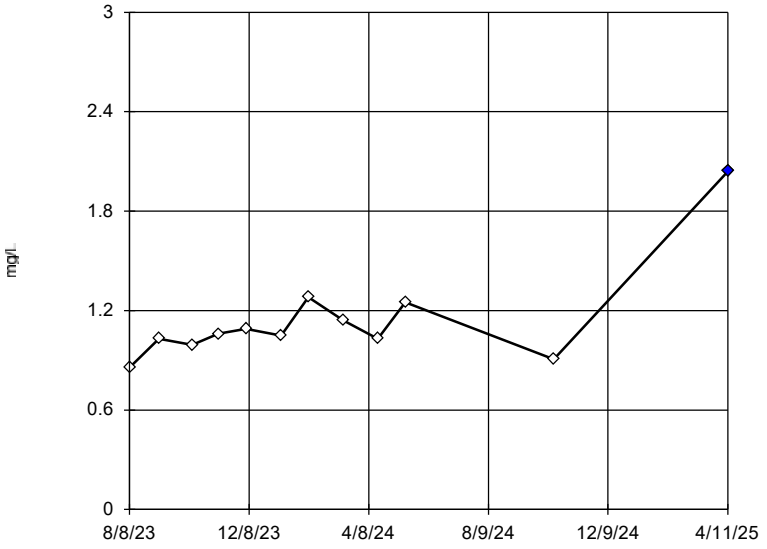
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.962
Critical = 0.93
The distribution was found to be normally distributed.

Constituent: Chloride Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Dixon's Outlier Test

MW-104



n = 12

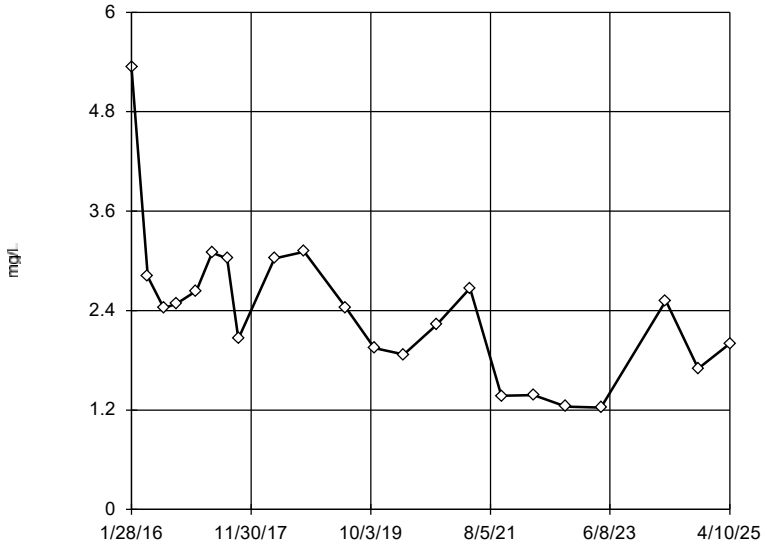
Statistical outlier is drawn as solid.
Testing for 1 high outlier.
Mean = 1.144.
Std. Dev. = 0.3074.
2.04 (B): c = 0.6966
tabl = 0.546.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9561
Critical = 0.876
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Chloride Analysis Run 1/7/2026 3:11 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Dixon's Test)

MW-108 (bg)



n = 22

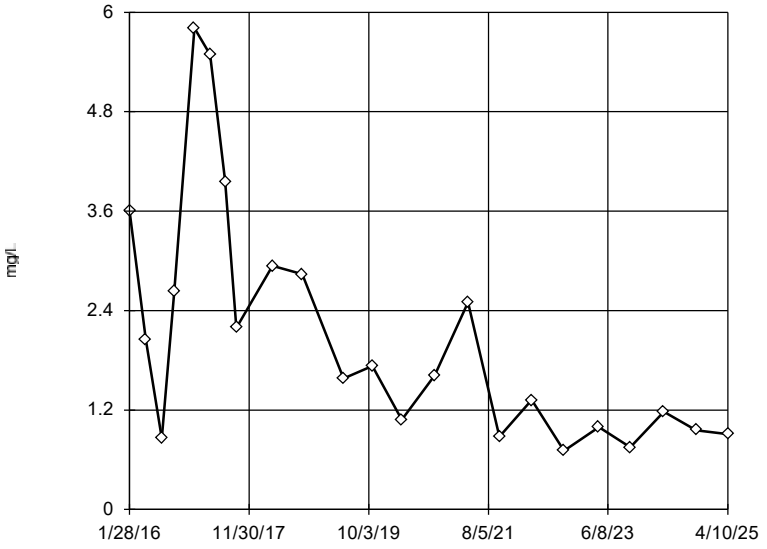
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 2.392, std. dev. 0.8956, critical Tn 2.603

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9482
Critical = 0.926 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Chloride Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Rosner's Test)

MW-113 (bg)



n = 23

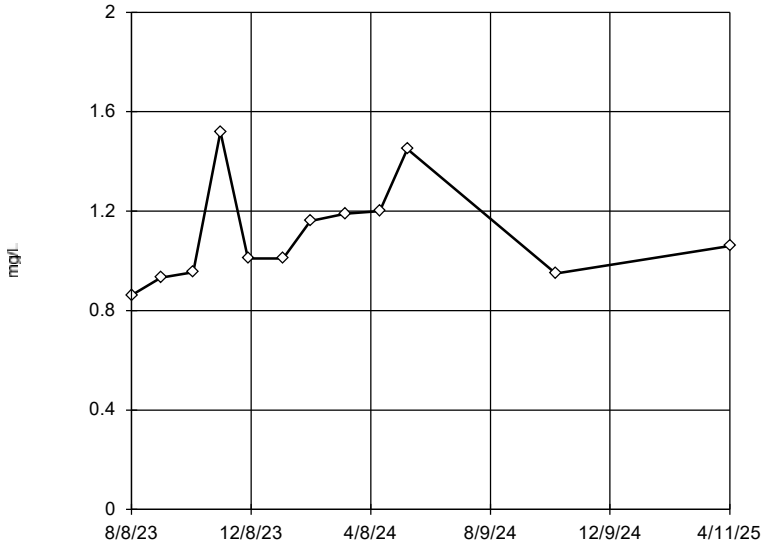
Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 2.112, std. dev. 1.455, critical Tn 2.624

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.945
Critical = 0.928 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Chloride Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Dixon's Test)

MW-110



n = 12

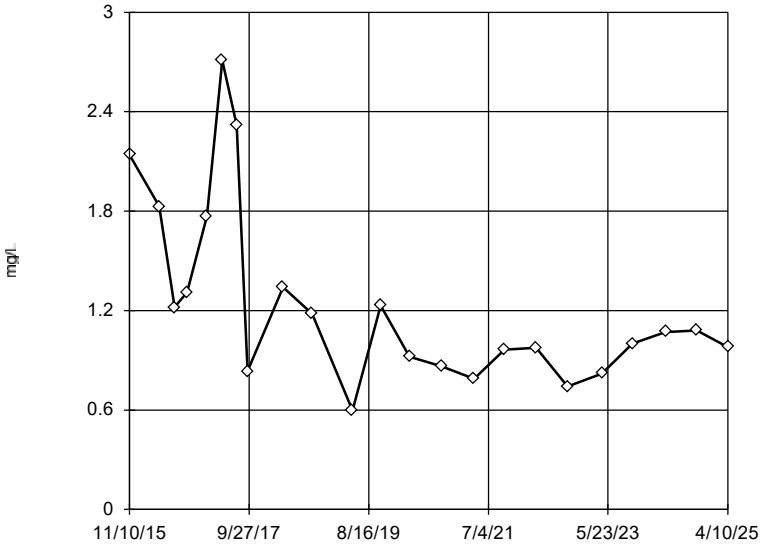
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 1.108, std. dev. 0.2059, critical Tn 2.285

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.8893
Critical = 0.883
The distribution was found to be normally distributed.

Constituent: Chloride Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Rosner's Test)

MW-115 (bg)



n = 23

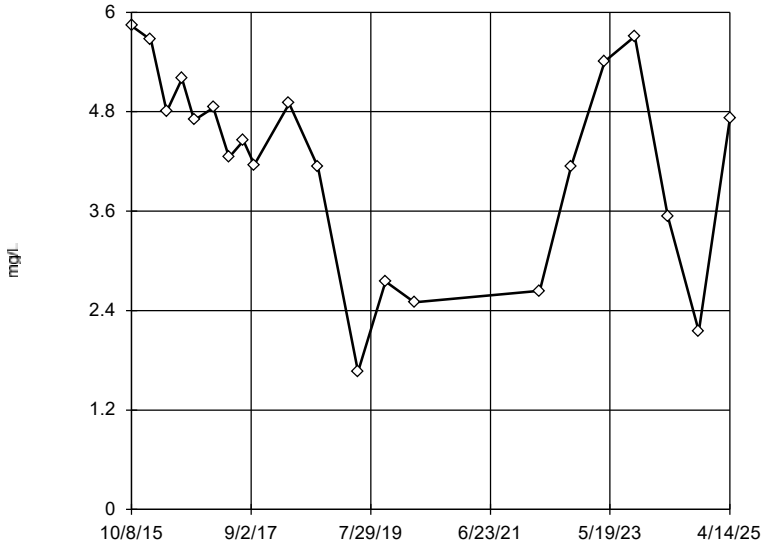
Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 1.247, std. dev. 0.546, critical Tn 2.624

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9434
Critical = 0.928 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Chloride Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Dixon's Test)

MW-116



n = 21

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 4.199, std. dev. 1.224, critical Tn 2.58

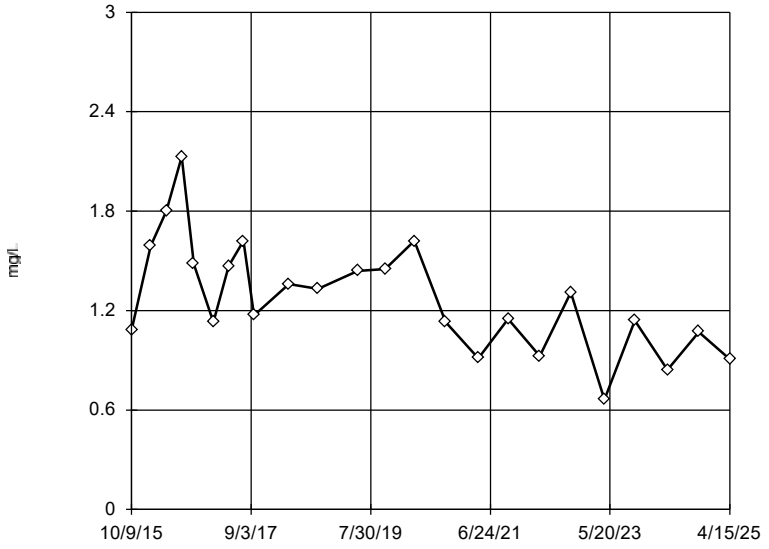
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9256
Critical = 0.923
The distribution was found to be normally distributed.

Constituent: Chloride Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-118



n = 24

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 1.28, std. dev. 0.337, critical Tn 2.644

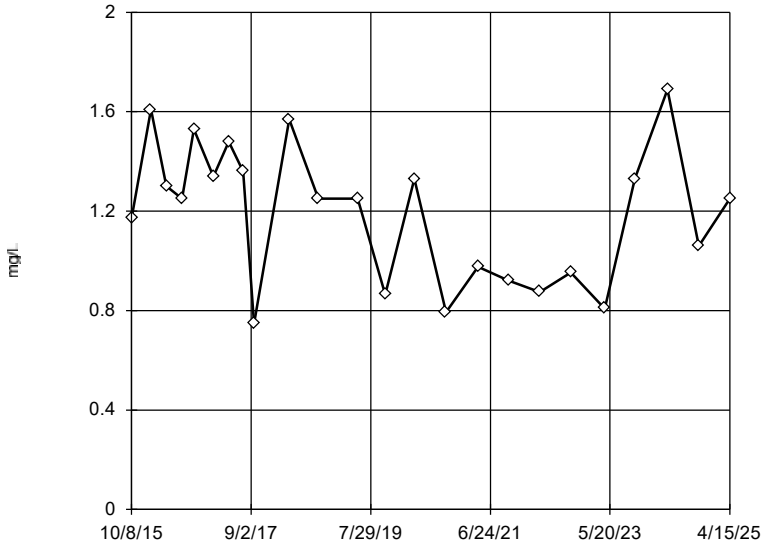
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9746
Critical = 0.93
The distribution was found to be normally distributed.

Constituent: Chloride Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-117



n = 24

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 1.196, std. dev. 0.2785, critical Tn 2.644

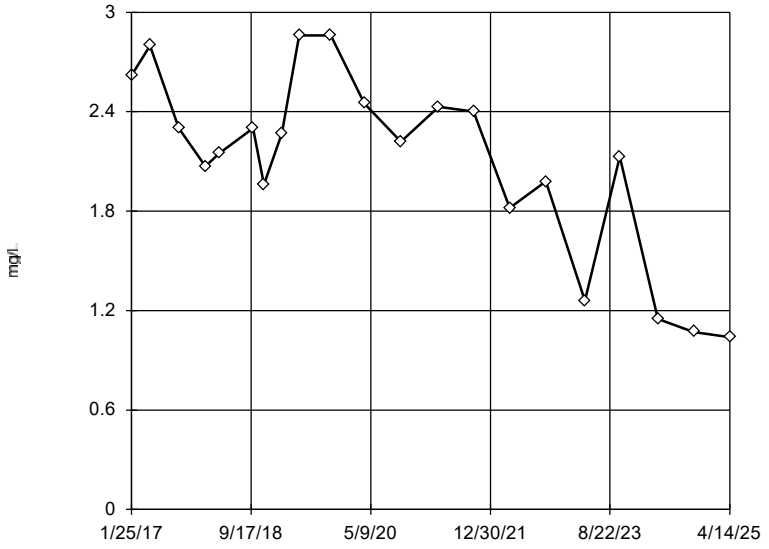
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9491
Critical = 0.93
The distribution was found to be normally distributed.

Constituent: Chloride Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-119



n = 21

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

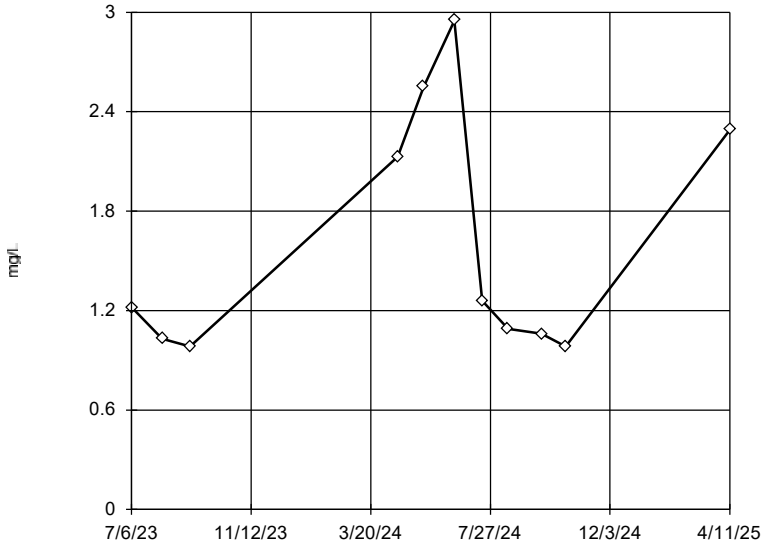
Data were cube transformed to achieve best W statistic (graph shown in original units).

High cutoff = 3.355, low cutoff = -2.544, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Tukey's Outlier Screening

MW-120



n = 11

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

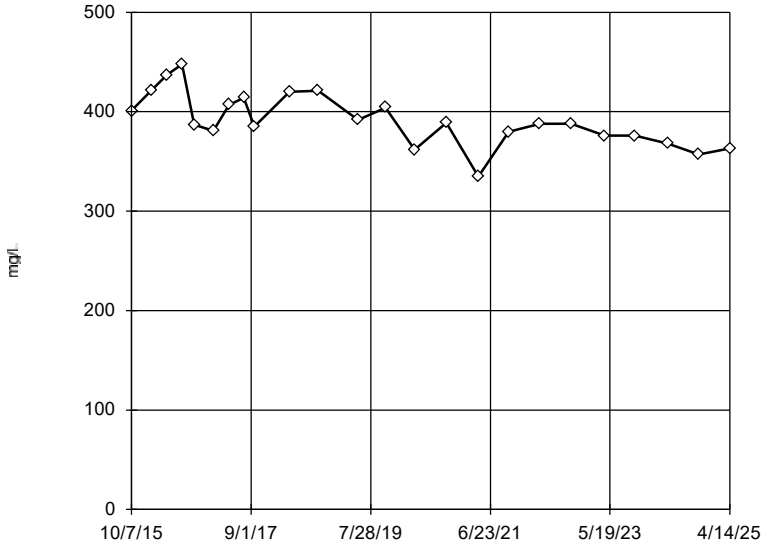
High cutoff = 25.17, low cutoff = 0.09372, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-101



n = 24

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 391.7, std. dev. 26.57, critical Tn 2.644

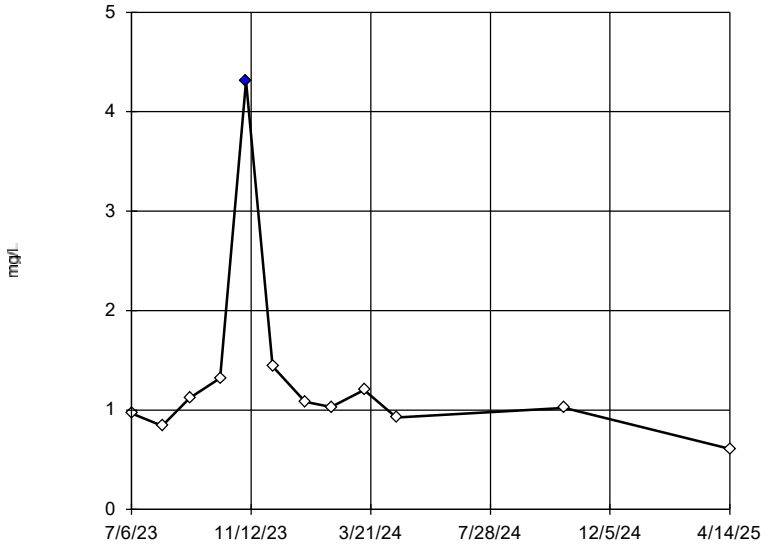
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9842
Critical = 0.93
The distribution was found to be normally distributed.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Dixon's Outlier Test

MW-121



n = 12

Statistical outlier is drawn as solid.
Testing for 1 high and 1 low outliers.
Mean = 1.322.
Std. Dev. = 0.9657.
4.31: c = 0.8622
tabl = 0.546.
0.608 (J): c = 0.3798
tabl = 0.546.
Alpha = 0.05.

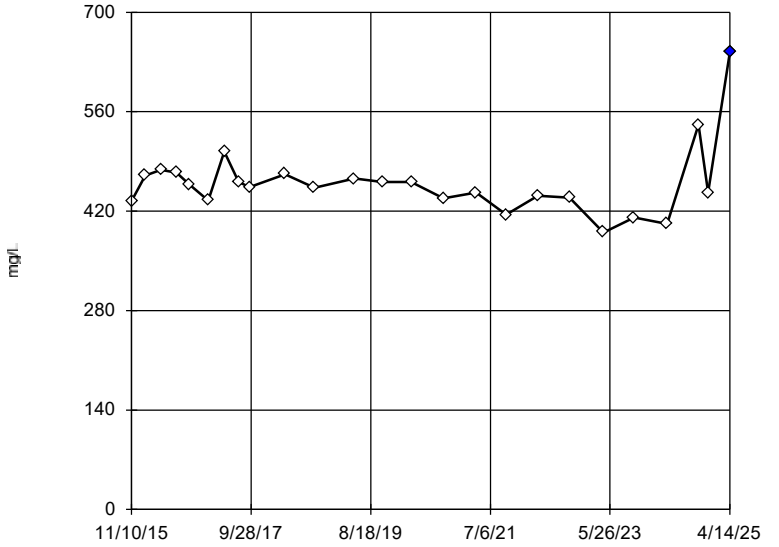
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9602
Critical = 0.869
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Chloride Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Rosner's Outlier Test

MW-102



n = 25

Statistical outlier is drawn as solid.

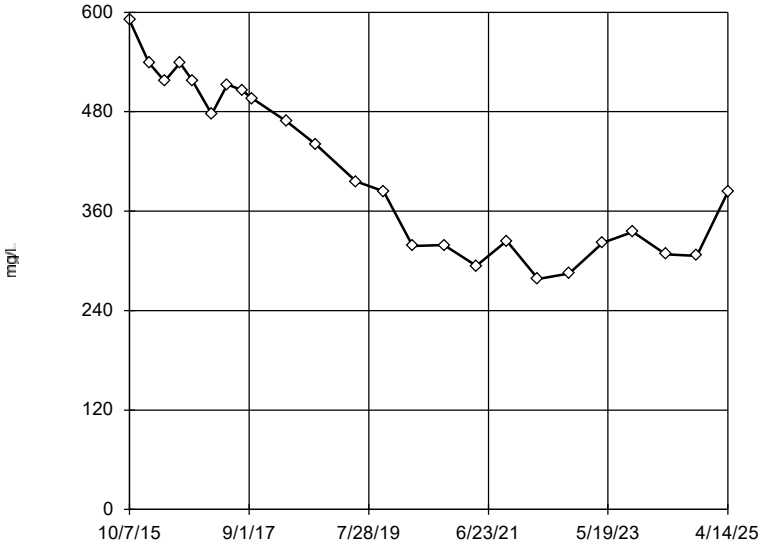
k = 1
r = 3.713
Tabulated value = 2.84
Alpha = 0.01

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9509
Critical = 0.93
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Tukey's Outlier Screening

MW-103



n = 24

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

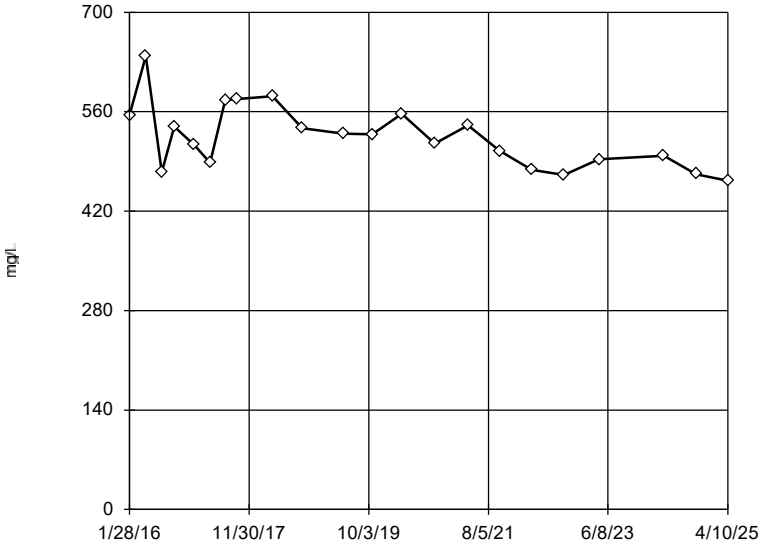
High cutoff = 1505, low cutoff = 37.8, based on IQR multiplier of 3.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-108 (bg)



n = 22

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 524.1, std. dev. 44.72, critical Tn 2.603

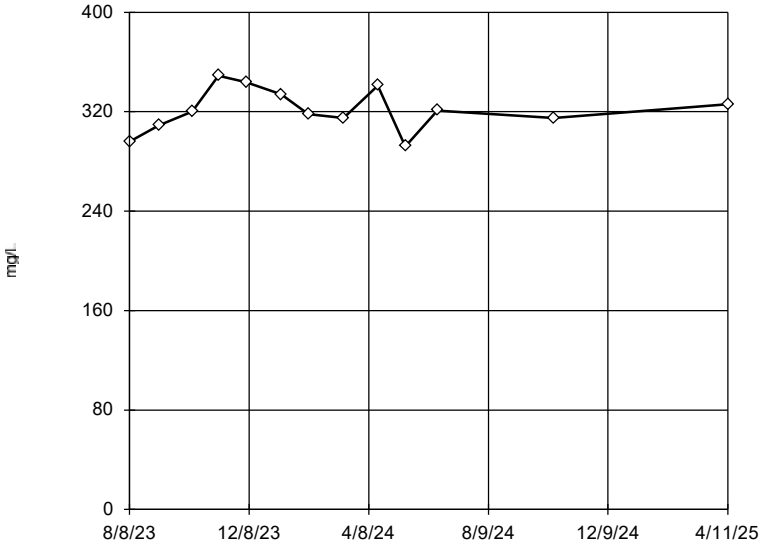
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9484
Critical = 0.926
The distribution was found to be normally distributed.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-104



n = 13

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 321.5, std. dev. 17.31, critical Tn 2.331

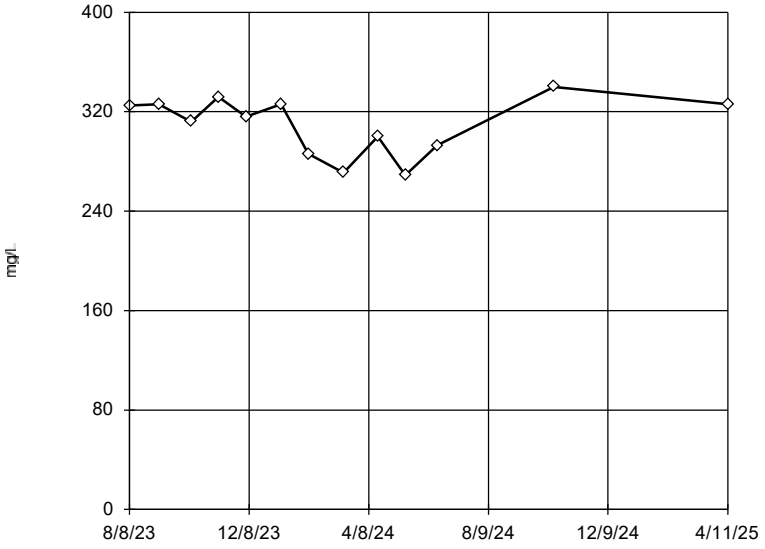
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9629
Critical = 0.889
The distribution was found to be normally distributed.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-110



n = 13

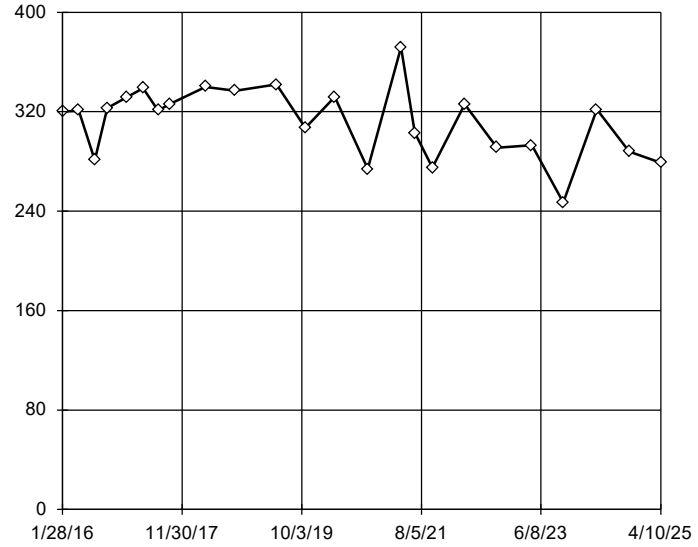
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 309.4, std. dev. 23.41, critical Tn 2.331

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9052
Critical = 0.889
The distribution was found to be normally distributed.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Rosner's Test)

MW-113 (bg)



n = 24

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 312.1, std. dev. 28.63, critical Tn 2.644

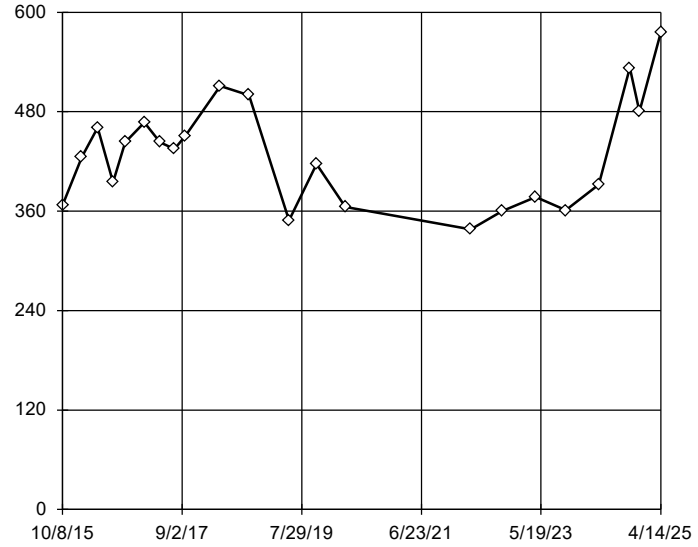
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9605
Critical = 0.93
The distribution was found to be normally distributed.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-116



n = 22

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 429.4, std. dev. 64.57, critical Tn 2.603

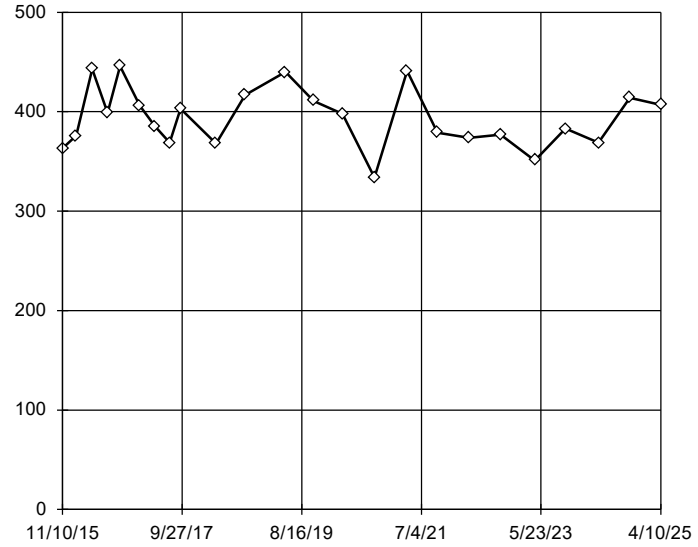
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9562
Critical = 0.926
The distribution was found to be normally distributed.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-115 (bg)



n = 24

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 393.9, std. dev. 30.11, critical Tn 2.644

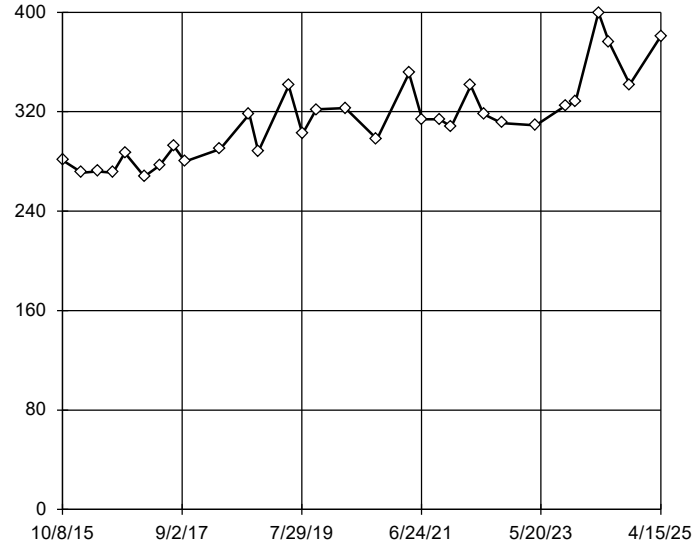
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9602
Critical = 0.93
The distribution was found to be normally distributed.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-117



n = 31

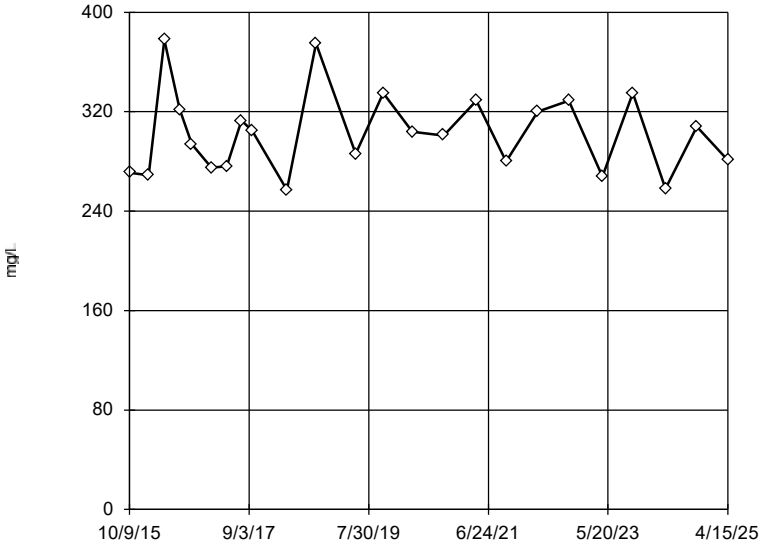
Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 312.9, std. dev. 33.63, critical Tn 2.759

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9503
Critical = 0.94 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Rosner's Test)

MW-118



n = 24

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 302.9, std. dev. 33.25, critical Tn 2.644

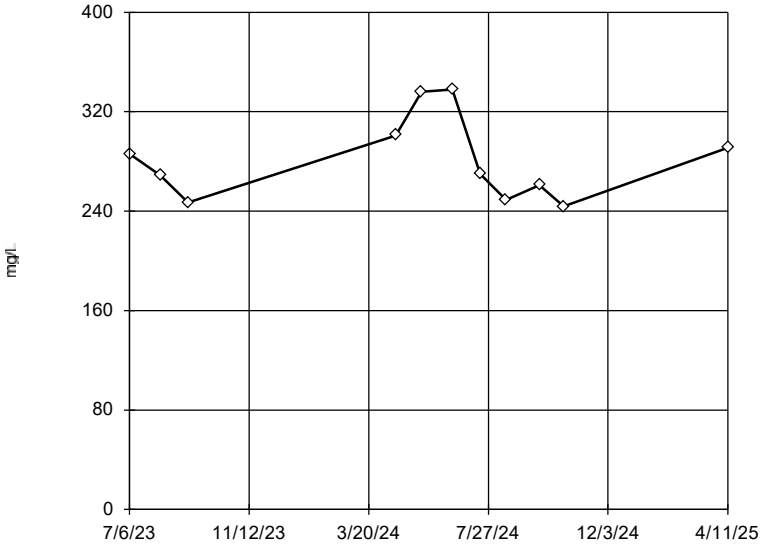
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9355
Critical = 0.93
The distribution was found to be normally distributed.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-120



n = 11

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 281.1, std. dev. 33.19, critical Tn 2.234

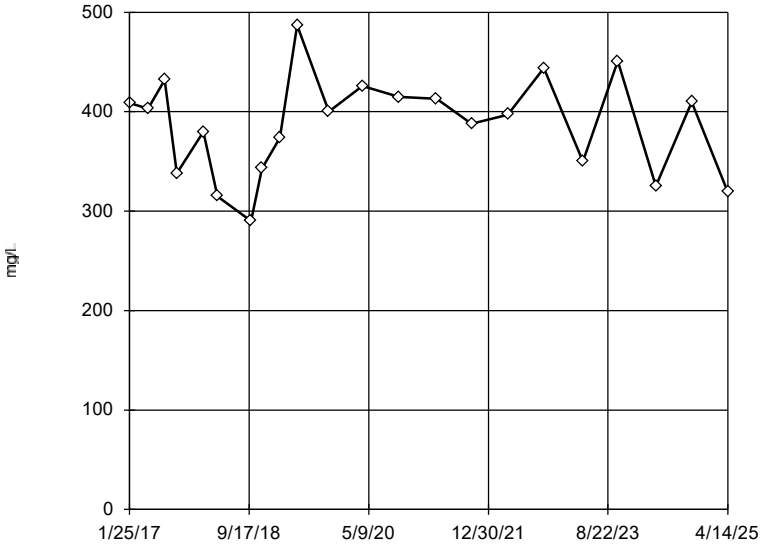
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.8967
Critical = 0.876
The distribution was found to be normally distributed.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-119



n = 22

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 386.8, std. dev. 50.18, critical Tn 2.603

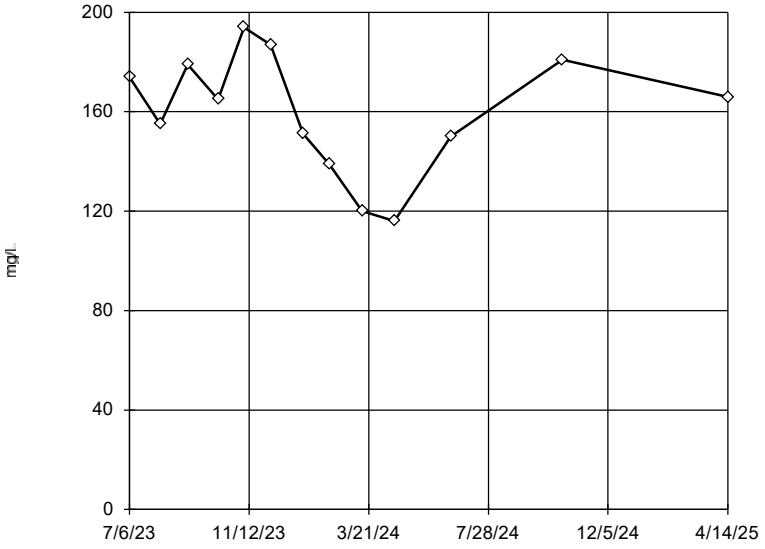
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9744
Critical = 0.926
The distribution was found to be normally distributed.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-121



n = 13

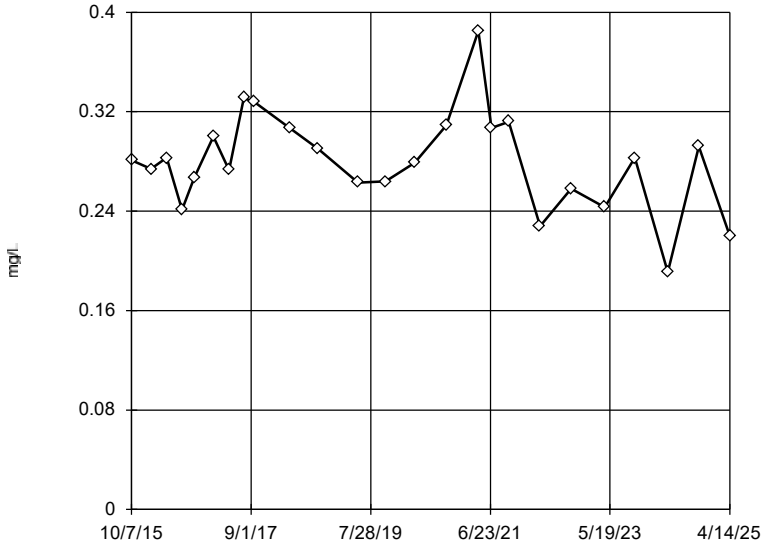
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 159.8, std. dev. 24.37, critical Tn 2.331

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.95
Critical = 0.889
The distribution was found to be normally distributed.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Rosner's Test)

MW-101



n = 25

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.2804, std. dev. 0.03995, critical Tn 2.663

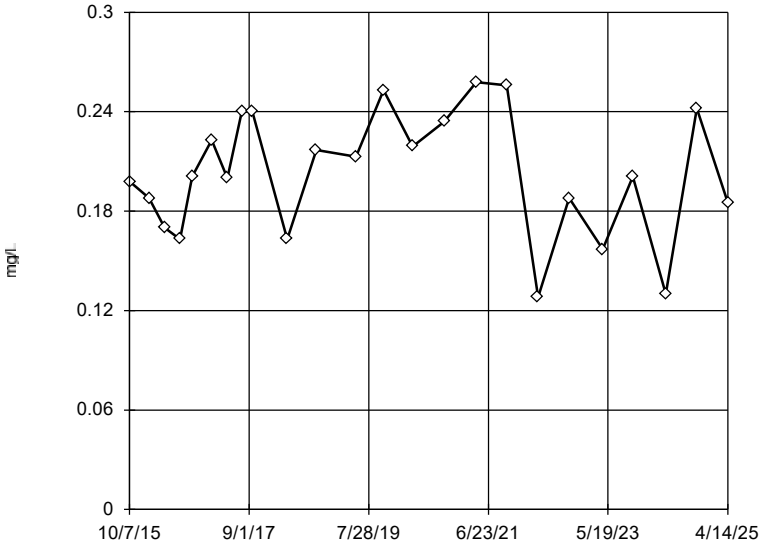
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9782
Critical = 0.931
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-103



n = 24

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.2028, std. dev. 0.03769, critical Tn 2.644

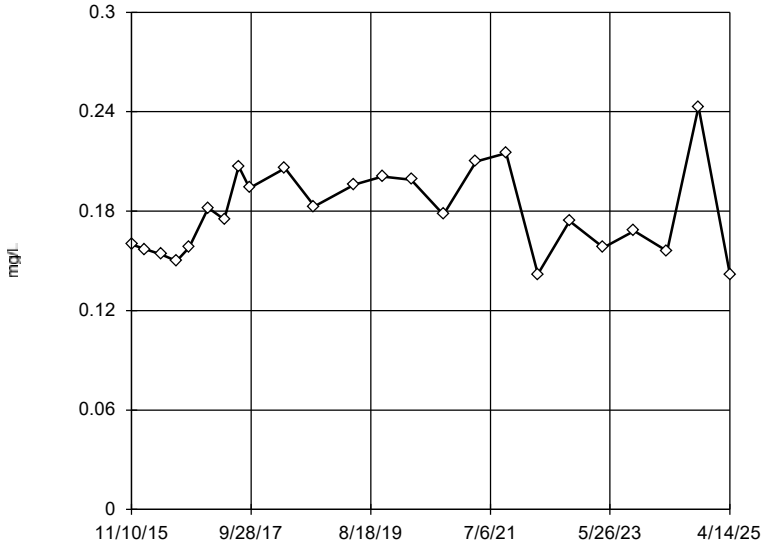
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9566
Critical = 0.93
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-102



n = 24

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.1795, std. dev. 0.0263, critical Tn 2.644

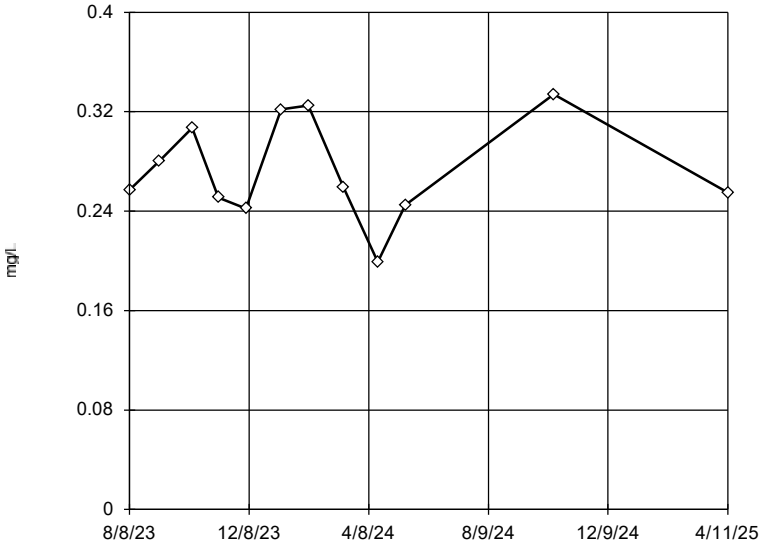
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9506
Critical = 0.93
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-104



n = 12

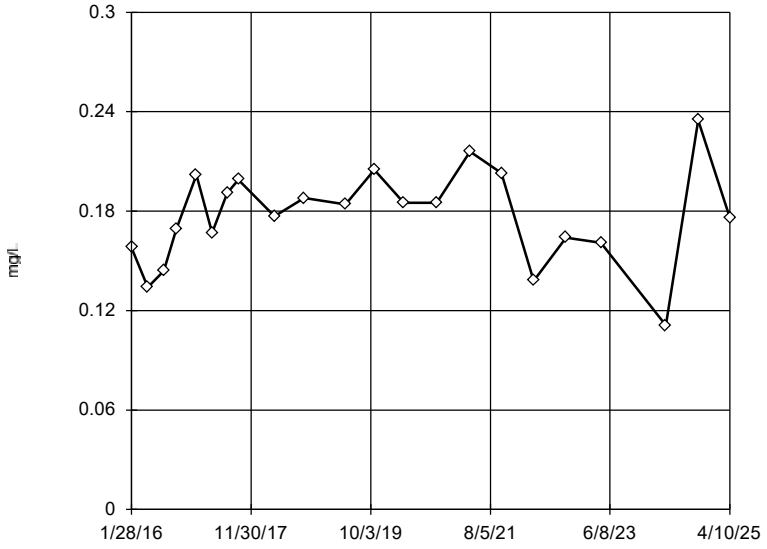
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.273, std. dev. 0.04102, critical Tn 2.285

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9246
Critical = 0.883
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Dixon's Test)

MW-108 (bg)



n = 22

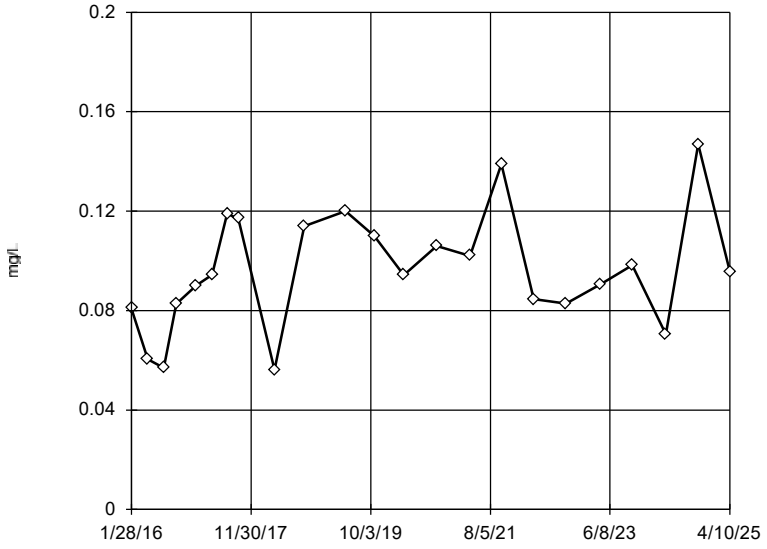
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.1769, std. dev. 0.02904, critical Tn 2.603

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9865
Critical = 0.926
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Rosner's Test)

MW-113 (bg)



n = 23

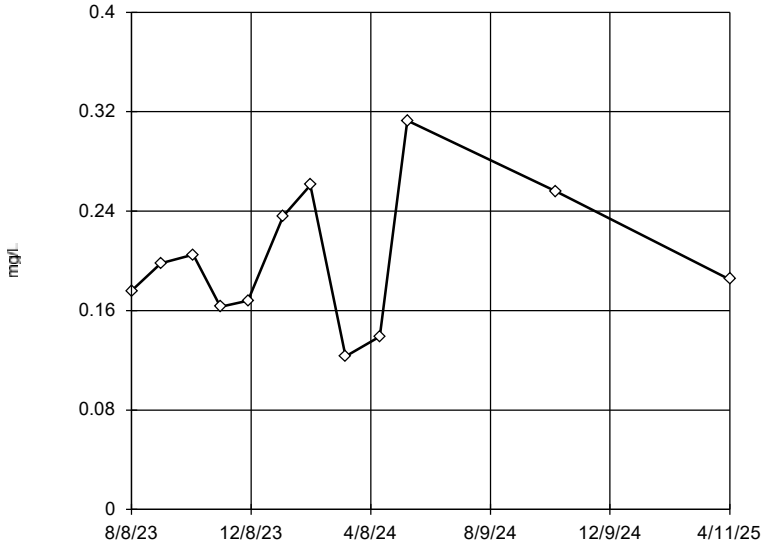
Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.09619, std. dev. 0.0238, critical Tn 2.624

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9731
Critical = 0.928
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Dixon's Test)

MW-110



n = 12

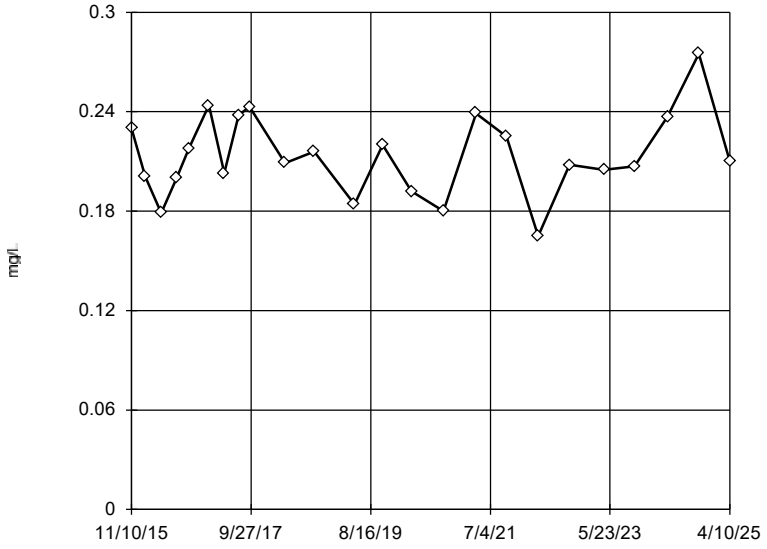
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.2019, std. dev. 0.05539, critical Tn 2.285

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9629
Critical = 0.883
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Rosner's Test)

MW-115 (bg)



n = 24

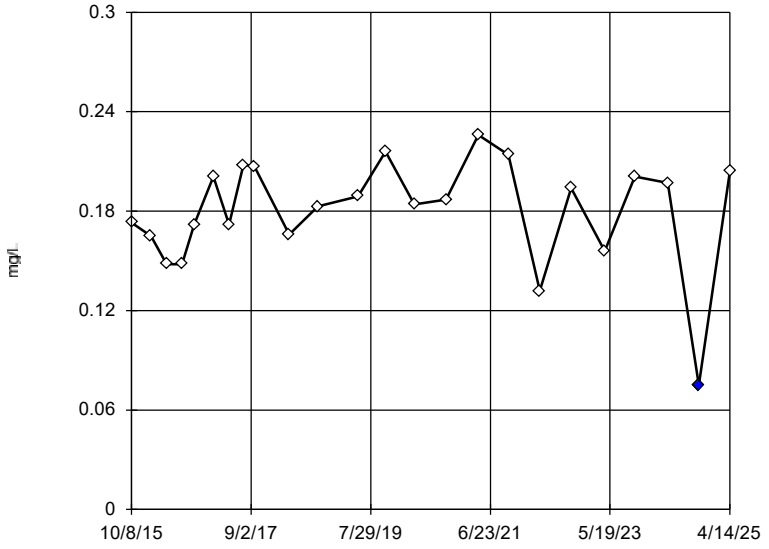
Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.2137, std. dev. 0.02509, critical Tn 2.644

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9806
Critical = 0.93
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Rosner's Outlier Test

MW-116



n = 24

Statistical outlier is drawn as solid.

k = 1
r = 3.2
Tabulated value = 2.824
Alpha = 0.01

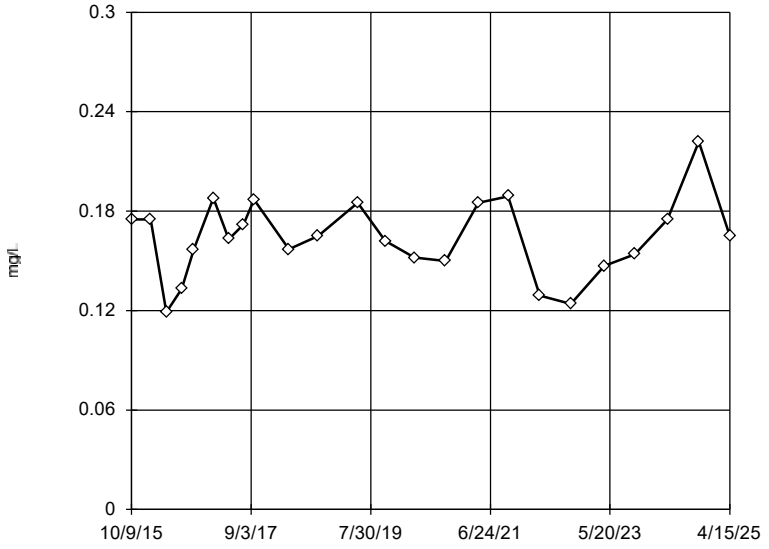
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9748
Critical = 0.928
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-118



n = 24

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.1638, std. dev. 0.02382, critical Tn 2.644

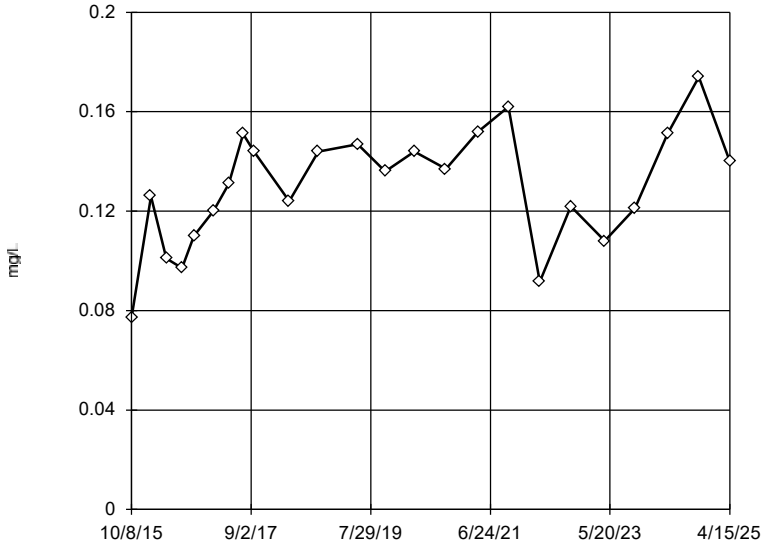
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9698
Critical = 0.93
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-117



n = 24

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.1296, std. dev. 0.02357, critical Tn 2.644

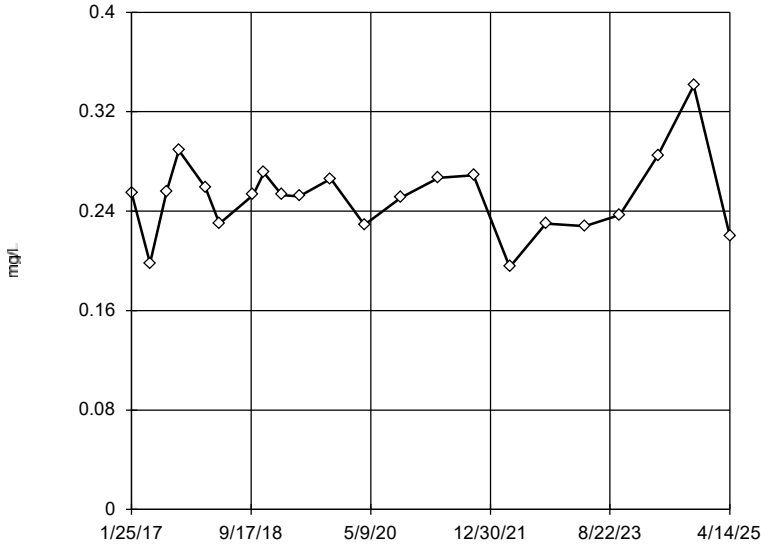
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9774
Critical = 0.93
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-119



n = 22

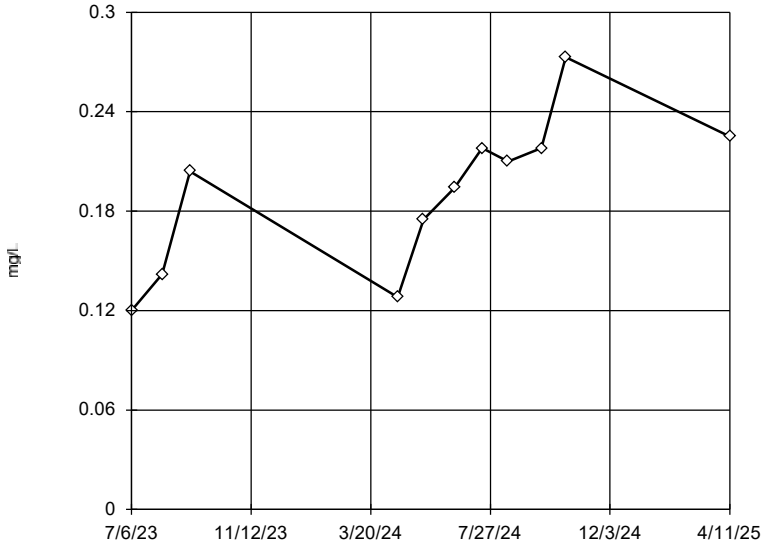
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.2515, std. dev. 0.03163, critical Tn 2.603

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9395
Critical = 0.926
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Dixon's Test)

MW-120



n = 11

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.1915, std. dev. 0.04641, critical Tn 2.234

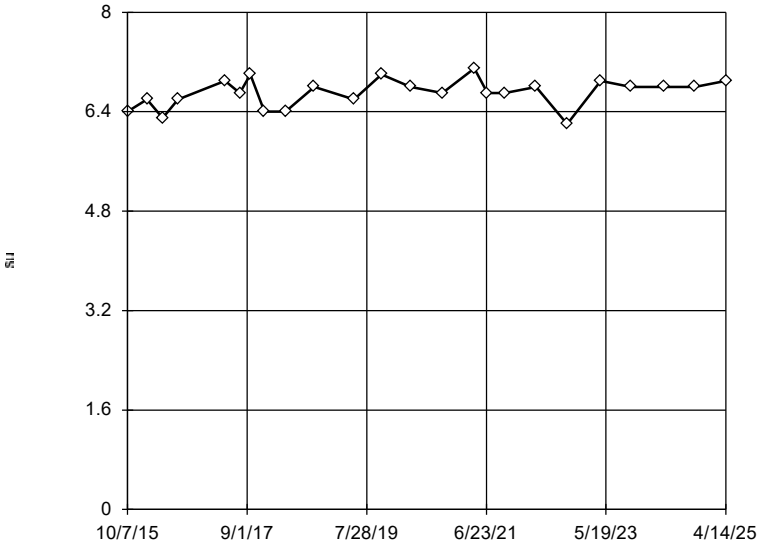
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9398
Critical = 0.876
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-101



n = 24

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 6.704, std. dev. 0.2312, critical Tn 2.644

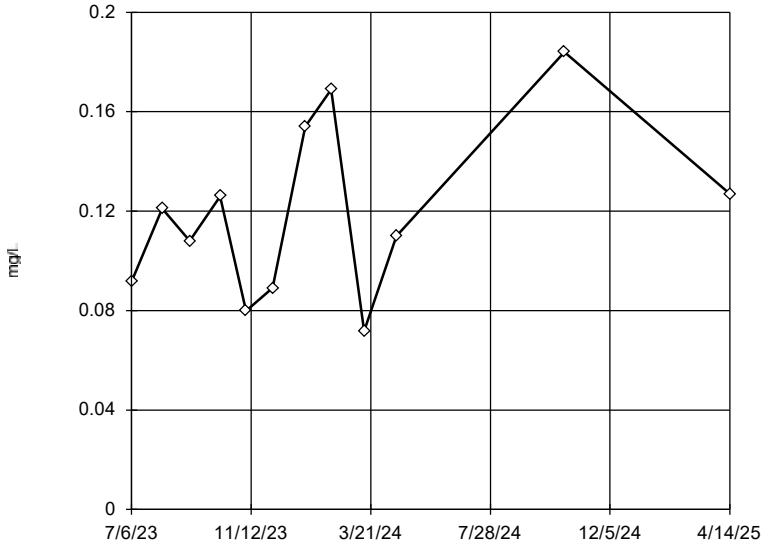
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9479
Critical = 0.93
The distribution was found to be normally distributed.

Constituent: pH Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-121



n = 12

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.1193, std. dev. 0.03527, critical Tn 2.285

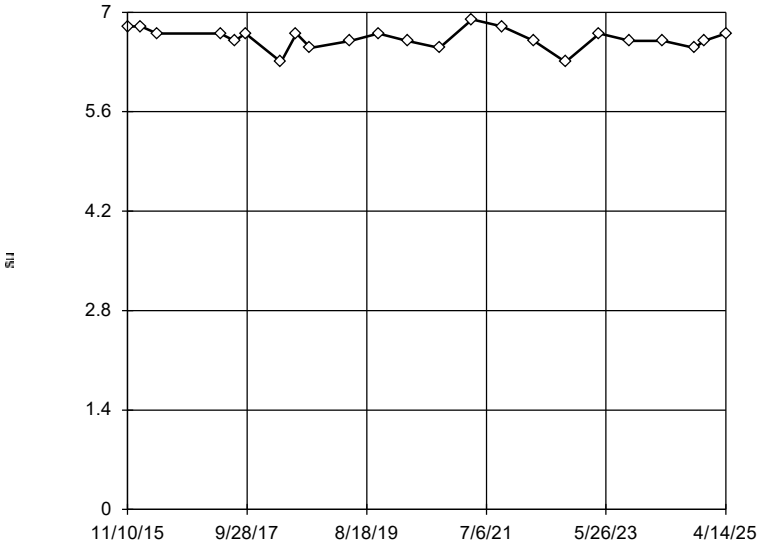
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9491
Critical = 0.883
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-102



n = 23

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

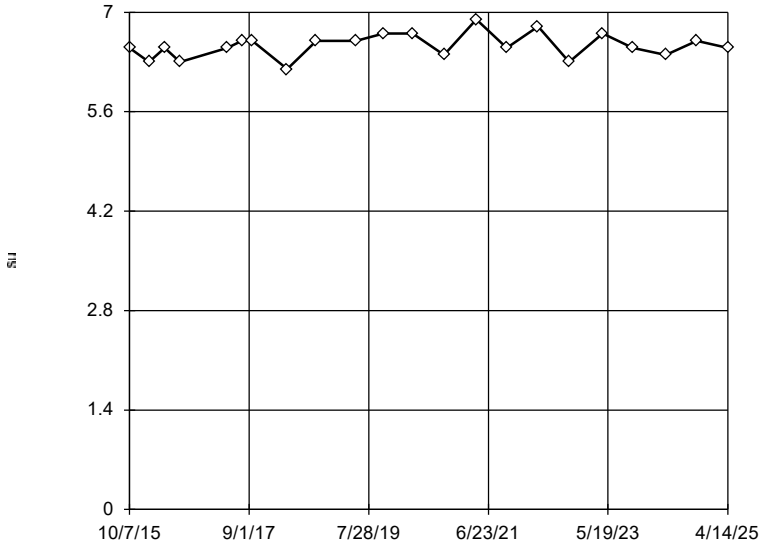
Data were x^6 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 6.962, low cutoff = 6.244, based on IQR multiplier of 3.

Constituent: pH Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Dixon's Test)

MW-103



n = 22

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 6.532, std. dev. 0.1729, critical Tn 2.603

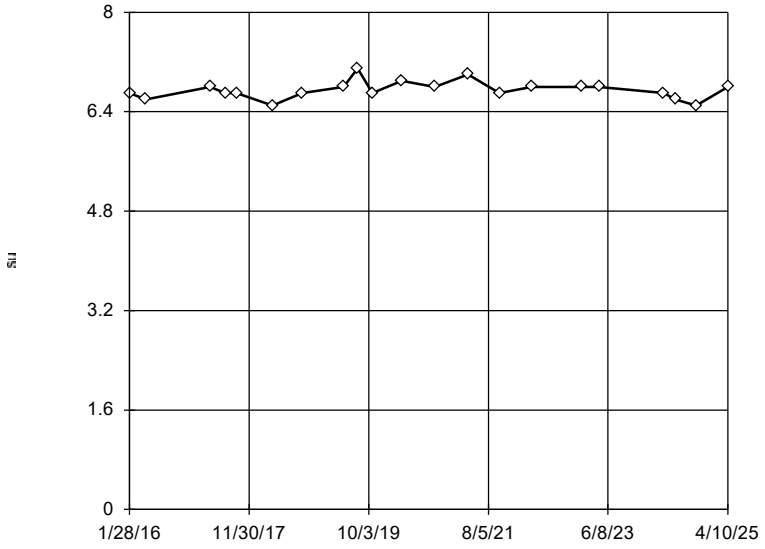
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.967
Critical = 0.926
The distribution was found to be normally distributed.

Constituent: pH Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-108 (bg)



n = 21

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

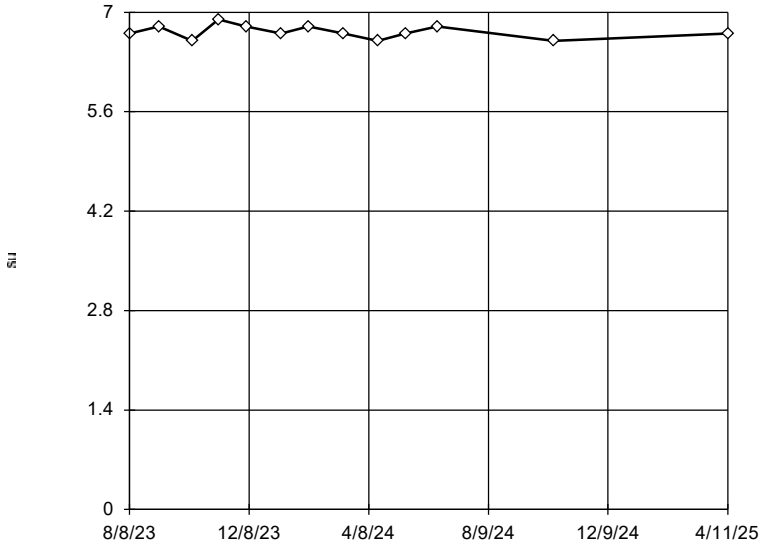
High cutoff = 7.109, low cutoff = 6.409, based on IQR multiplier of 3.

Constituent: pH Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-104



n = 13

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 6.723, std. dev. 0.09268, critical Tn 2.331

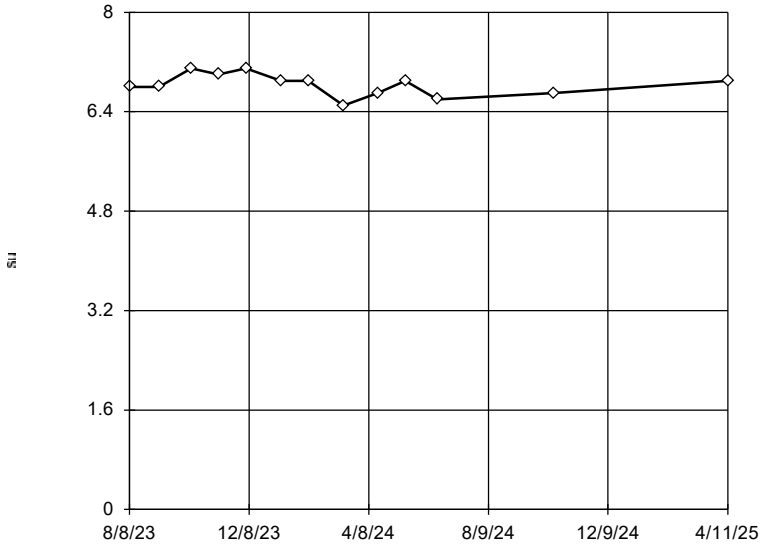
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.894
Critical = 0.889
The distribution was found to be normally distributed.

Constituent: pH Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-110



n = 13

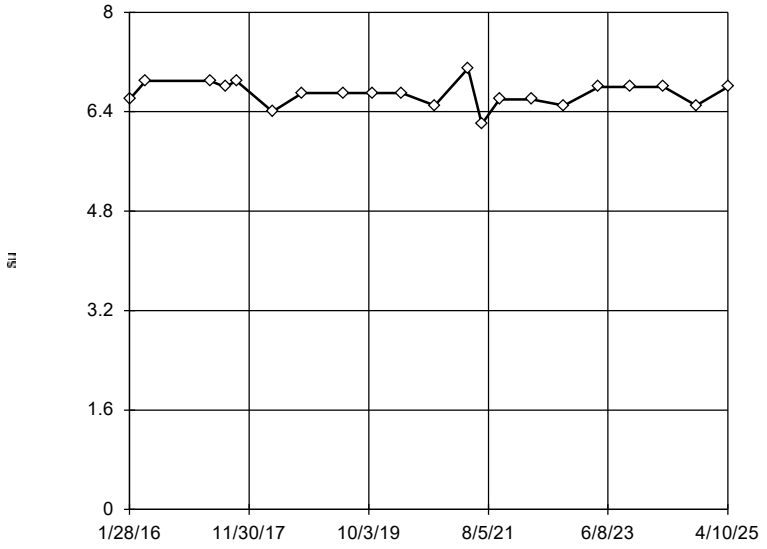
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 6.838, std. dev. 0.1805, critical Tn 2.331

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9543
Critical = 0.889
The distribution was found to be normally distributed.

Constituent: pH Analysis Run 1/7/2026 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Dixon's Test)

MW-113 (bg)



n = 21

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 6.69, std. dev. 0.2022, critical Tn 2.58

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9645
Critical = 0.923
The distribution was found to be normally distributed.

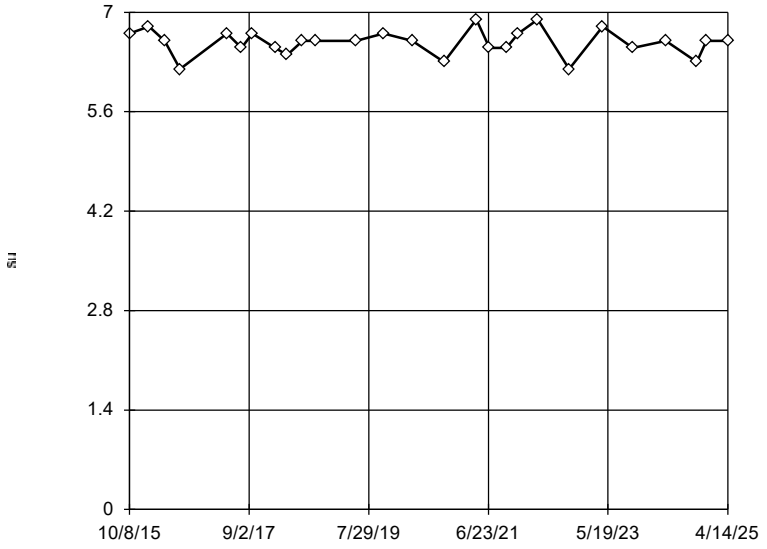
Constituent: pH Analysis Run 1/7/2026 3:12 PM View: Distributional

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-116



n = 27

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 6.578, std. dev. 0.1847, critical Tn 2.698

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.94
Critical = 0.935
The distribution was found to be normally distributed.

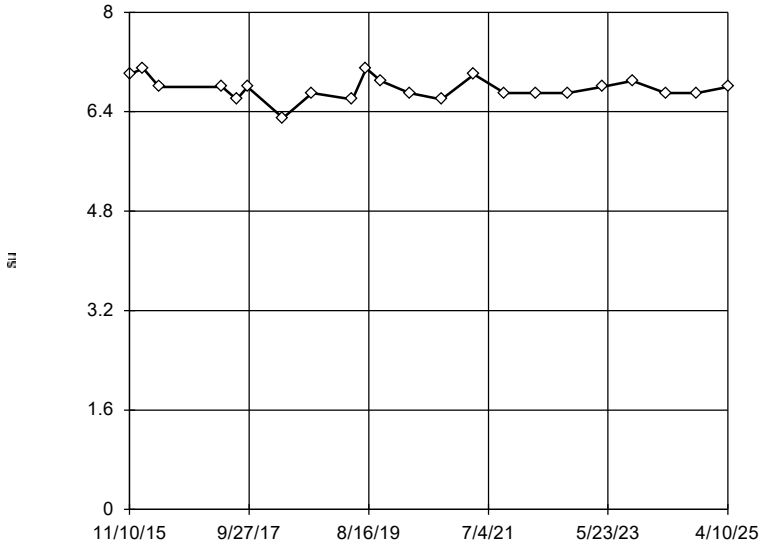
Constituent: pH Analysis Run 1/7/2026 3:13 PM View: Distributional

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-115 (bg)



n = 22

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were cube transformed to achieve best W statistic (graph shown in original units).

High cutoff = 7.439, low cutoff = 6.014, based on IQR multiplier of 3.

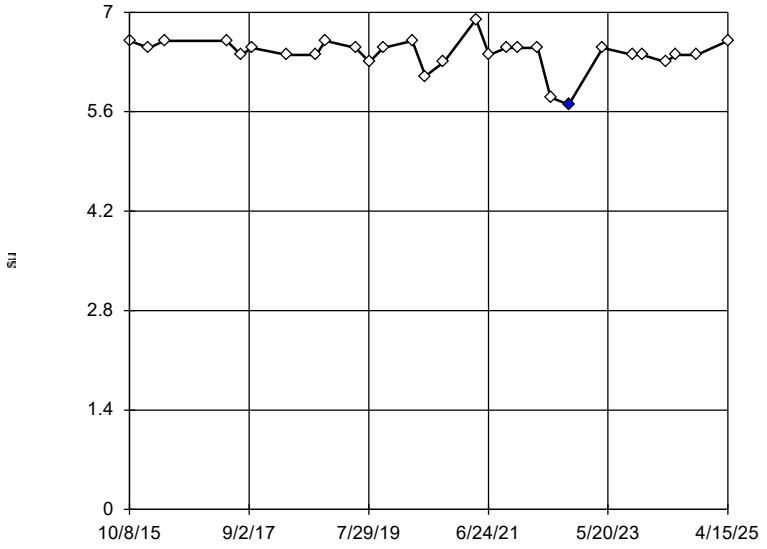
Constituent: pH Analysis Run 1/7/2026 3:13 PM View: Distributional

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-117



n = 29

Outlier is drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

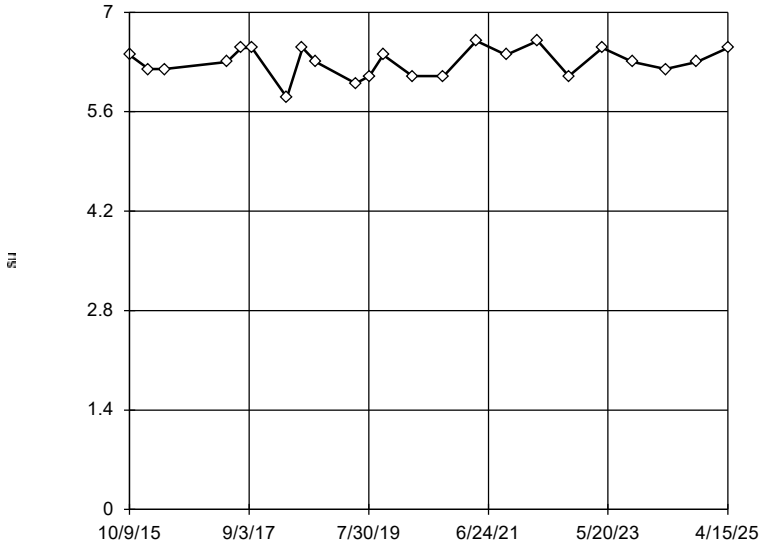
High cutoff = 6.922, low cutoff = 5.792, based on IQR multiplier of 3.

Constituent: pH Analysis Run 1/7/2026 3:13 PM View: Distributional

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Rosner's Test)

MW-118



n = 23

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 6.3, std. dev. 0.2067, critical Tn 2.624

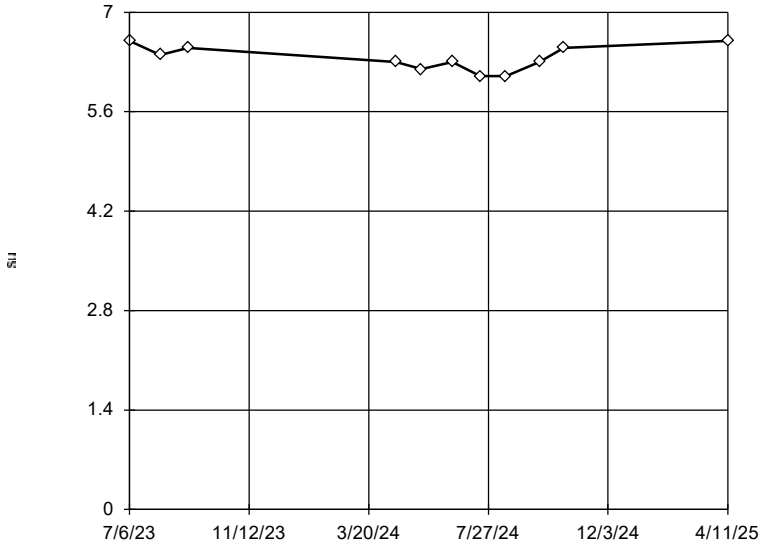
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9461
Critical = 0.928
The distribution was found to be normally distributed.

Constituent: pH Analysis Run 1/7/2026 3:13 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-120



n = 11

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 6.355, std. dev. 0.1809, critical Tn 2.234

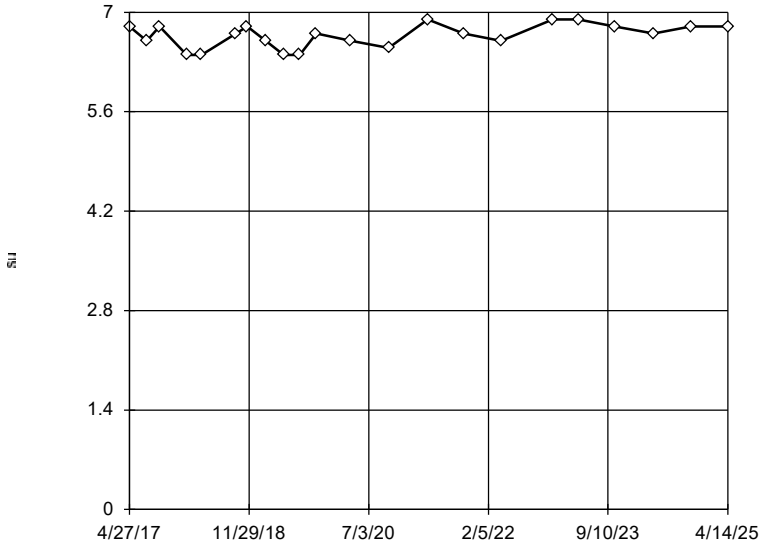
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9214
Critical = 0.876
The distribution was found to be normally distributed.

Constituent: pH Analysis Run 1/7/2026 3:13 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-119



n = 22

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

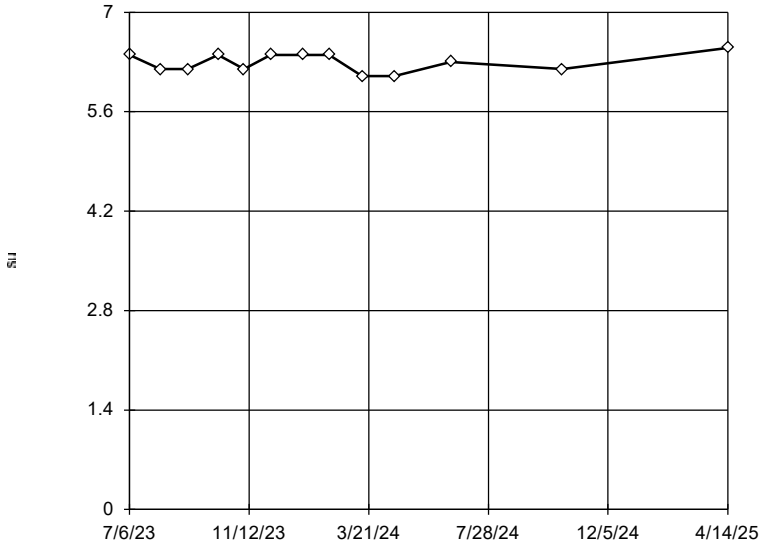
High cutoff = 7.355, low cutoff = 5.19, based on IQR multiplier of 3.

Constituent: pH Analysis Run 1/7/2026 3:13 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-121



n = 13

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

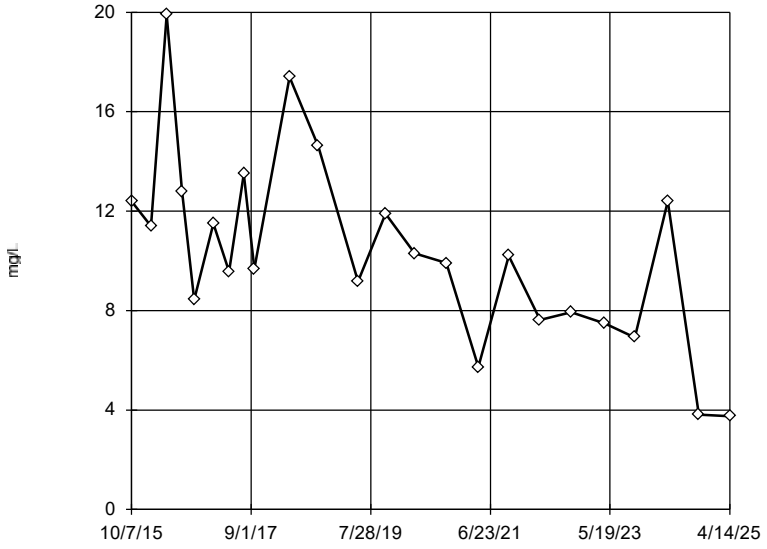
Data were x^5 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 6.885, low cutoff = 5.362, based on IQR multiplier of 3.

Constituent: pH Analysis Run 1/7/2026 3:13 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Rosner's Test)

MW-101



n = 24

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 10.35, std. dev. 3.819, critical Tn 2.644

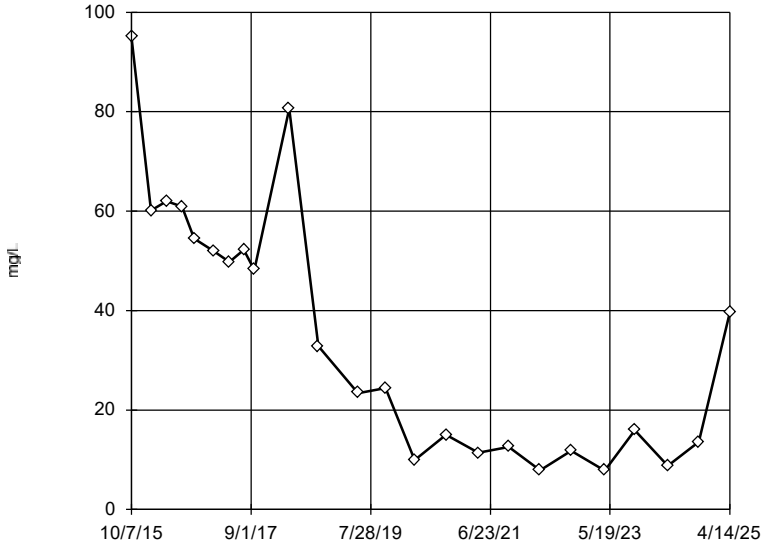
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.969
Critical = 0.93
The distribution was found to be normally distributed.

Constituent: Sulfate Analysis Run 1/7/2026 3:13 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-103



n = 24

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

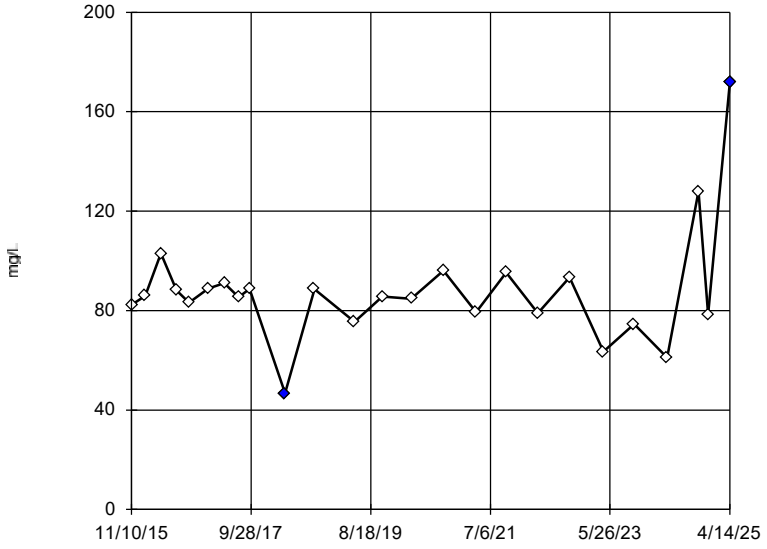
High cutoff = 541.7, low cutoff = -9.075, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 1/7/2026 3:13 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-102



n = 25

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

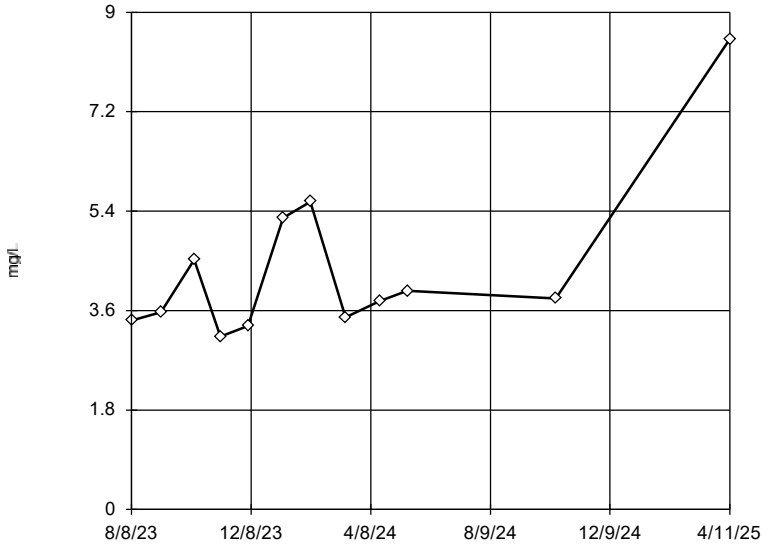
High cutoff = 148.2, low cutoff = 48.96, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 1/7/2026 3:13 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Dixon's Outlier Test

MW-104



n = 12

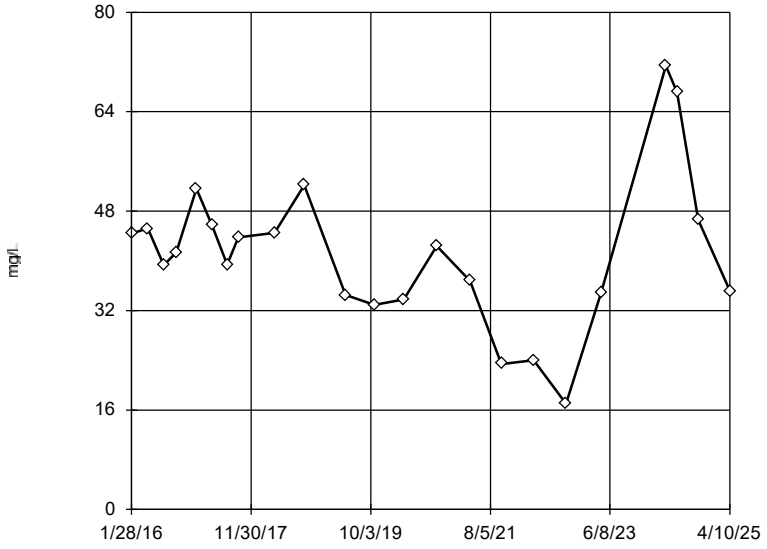
No statistical outliers.
Testing for 1 high outlier.
Mean = 4.363.
Std. Dev. = 1.517.
8.52: c = 0.5077
tabl = 0.546.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.8936
Critical = 0.876 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Sulfate Analysis Run 1/7/2026 3:13 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Rosner's Outlier Test

MW-108 (bg)



n = 23

No statistical outliers.

k = 1
r = 2.438
Tabulated value = 2.808
Alpha = 0.01

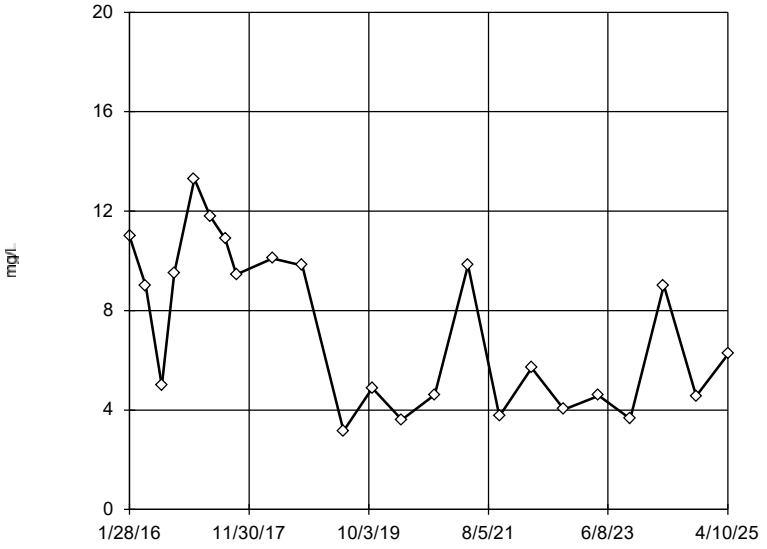
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9604
Critical = 0.926 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Sulfate Analysis Run 1/7/2026 3:13 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-113 (bg)



n = 23

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

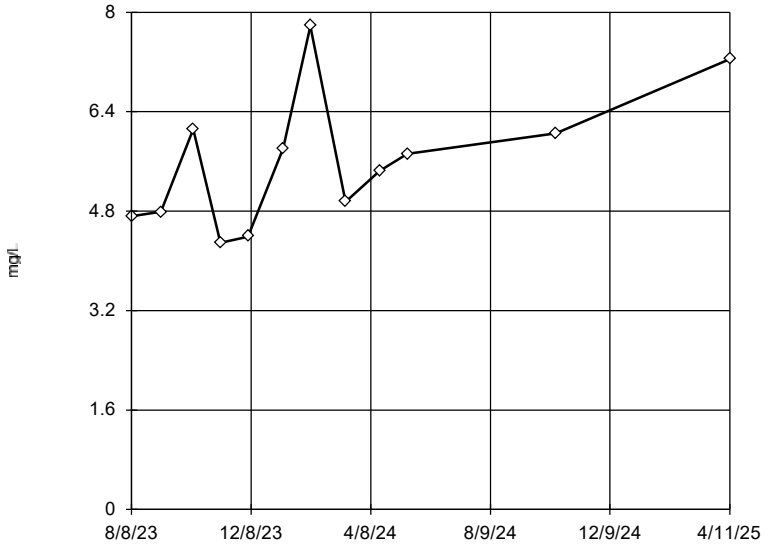
High cutoff = 98.47, low cutoff = 0.4552, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 1/7/2026 3:13 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-110



n = 12

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 5.61, std. dev. 1.09, critical Tn 2.285

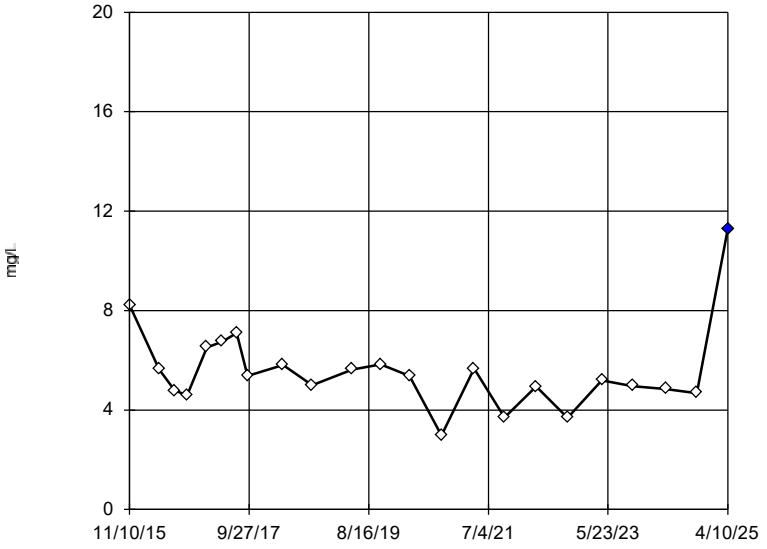
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.926
Critical = 0.883
The distribution was found to be normally distributed.

Constituent: Sulfate Analysis Run 1/7/2026 3:13 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Rosner's Outlier Test

MW-115 (bg)



n = 23

Statistical outlier is drawn as solid.

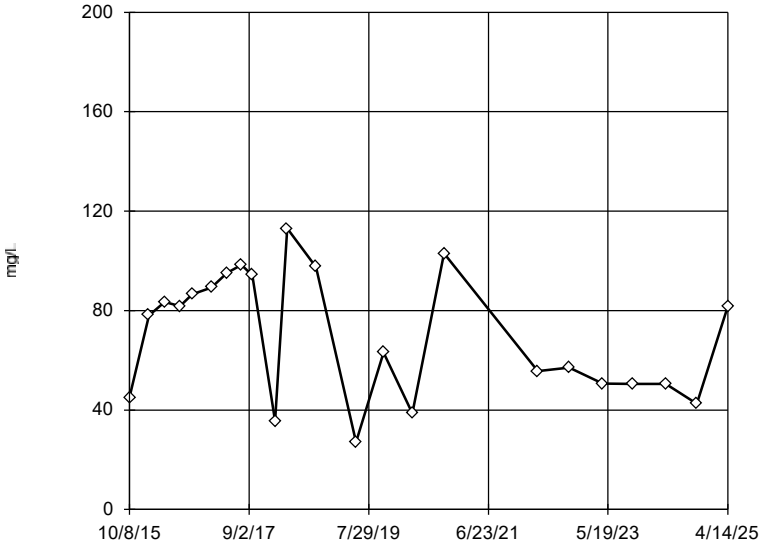
k = 1
r = 3.383
Tabulated value = 2.808
Alpha = 0.01

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9637
Critical = 0.926
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Sulfate Analysis Run 1/7/2026 3:13 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Rosner's Test)

MW-116



n = 23

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 70.35, std. dev. 25.09, critical Tn 2.624

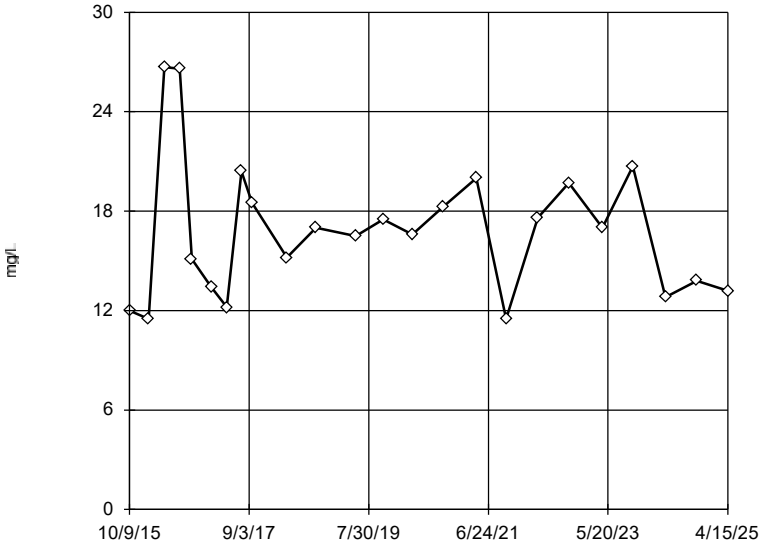
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.942
Critical = 0.928
The distribution was found to be normally distributed.

Constituent: Sulfate Analysis Run 1/7/2026 3:13 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-118



n = 24

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 16.83, std. dev. 4.184, critical Tn 2.644

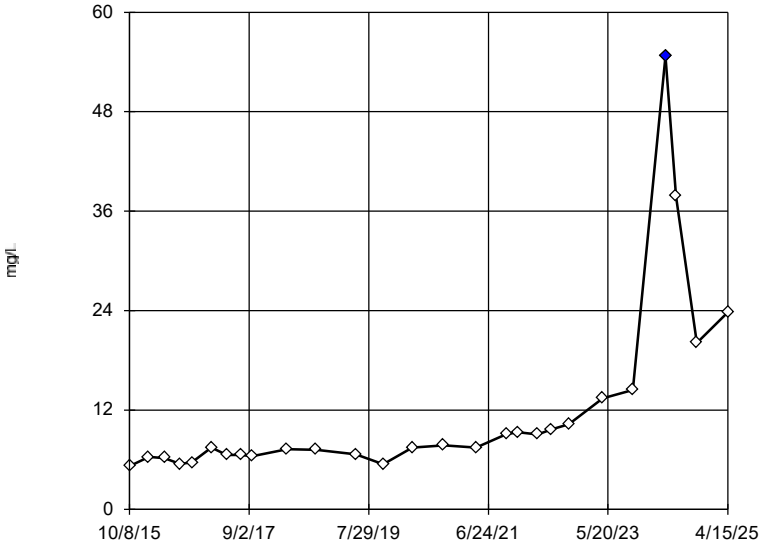
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9512
Critical = 0.93 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Sulfate Analysis Run 1/7/2026 3:13 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-117



n = 27

Outlier is drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

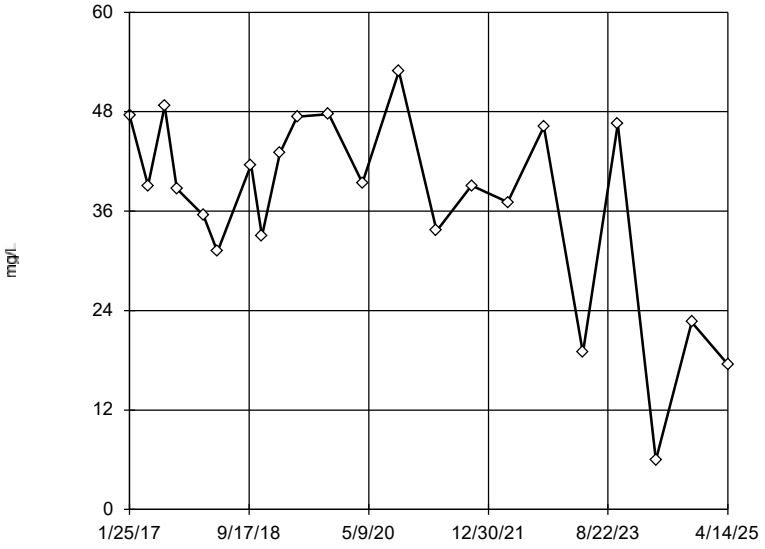
High cutoff = 42.34, low cutoff = 1.564, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 1/7/2026 3:13 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Dixon's Outlier Test

MW-119



n = 22

No statistical outliers.
Testing for 1 low outlier.
Mean = 36.96.
Std. Dev. = 11.79.
5.93 (B): c = 0.3105
tabl = 0.43.
Alpha = 0.05.

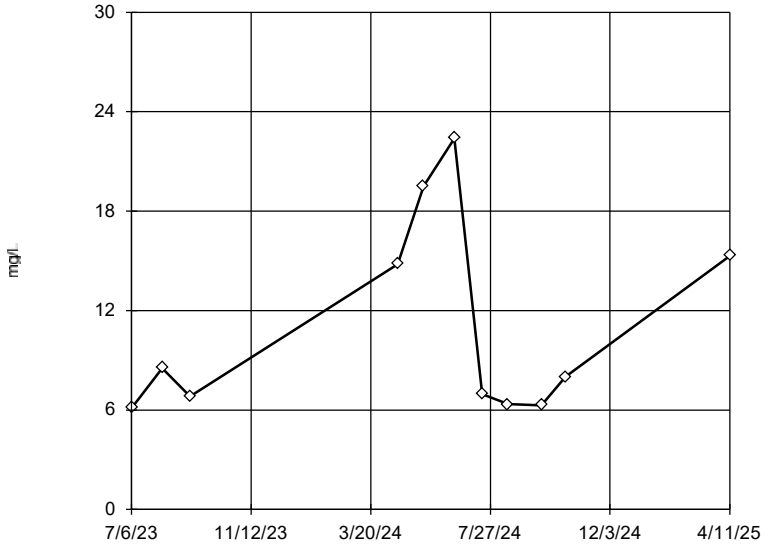
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9234
Critical = 0.923
The distribution was found to be normally distributed.

Constituent: Sulfate Analysis Run 1/7/2026 3:13 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-120



n = 11

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 214, low cutoff = 0.454, based on IQR multiplier of 3.

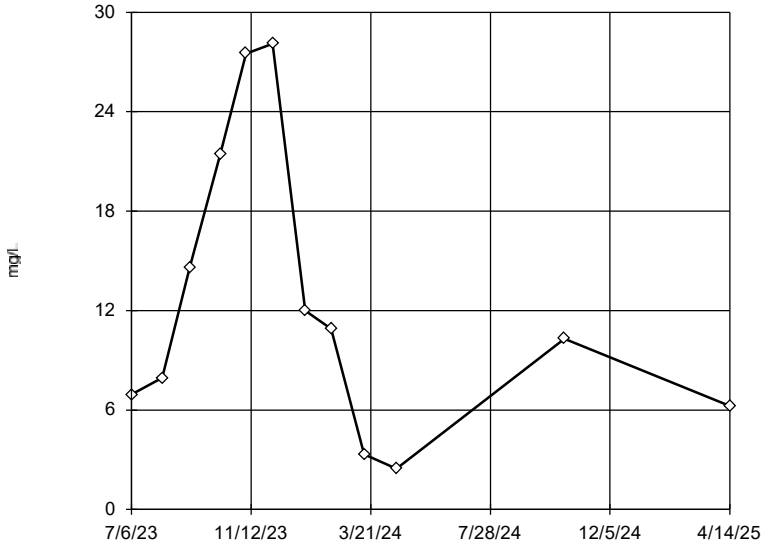
Constituent: Sulfate Analysis Run 1/7/2026 3:13 PM View: Distributional

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-121



n = 12

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 12.64, std. dev. 8.716, critical Tn 2.285

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.8884
Critical = 0.883
The distribution was found to be normally distributed.

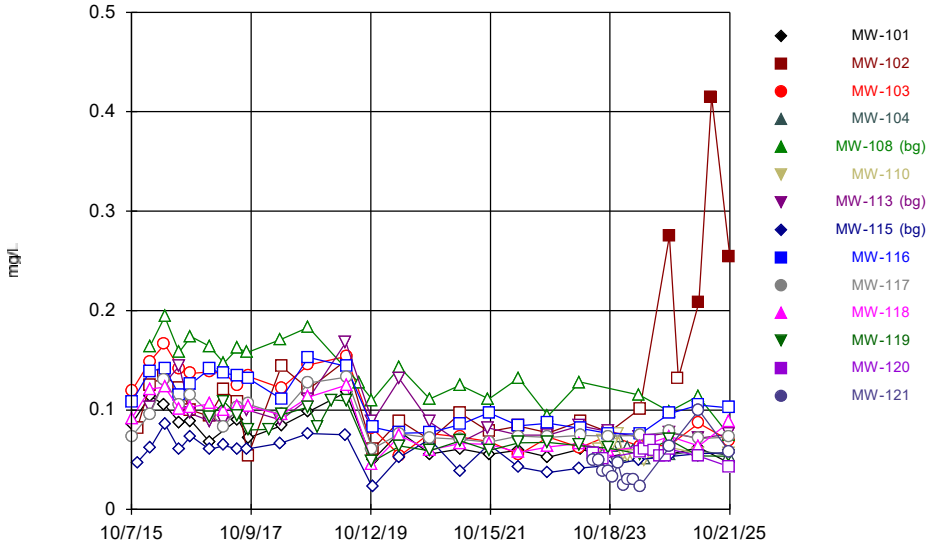
Constituent: Sulfate Analysis Run 1/7/2026 3:13 PM View: Distributional

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

TIME-SERIES PLOTS, SECOND HALF OF 2025 DATA SET

Sanitas™ v.10.1.02 Software licensed to Olsson. UG
Hollow symbols indicate censored values.

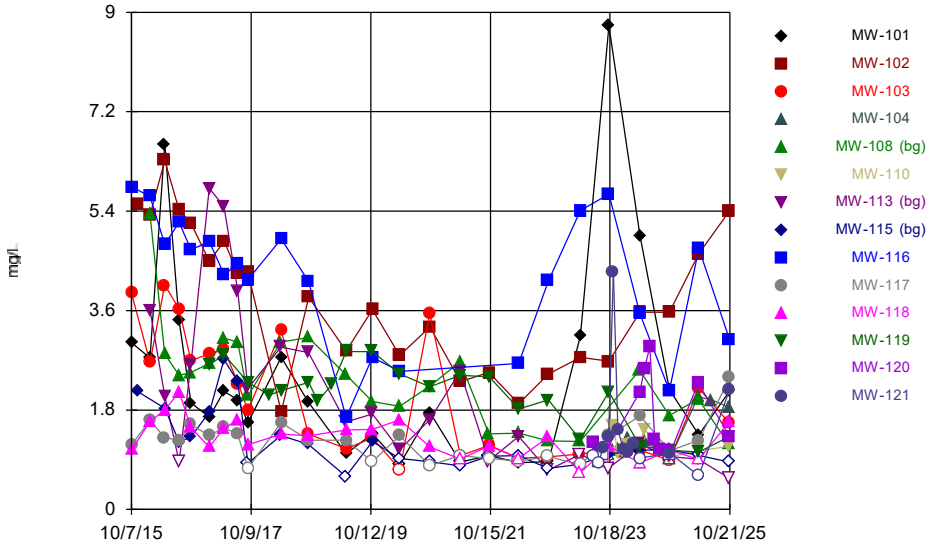
Time Series



Constituent: Boron Analysis Run 10/30/2025 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.02 Software licensed to Olsson. UG
Hollow symbols indicate censored values.

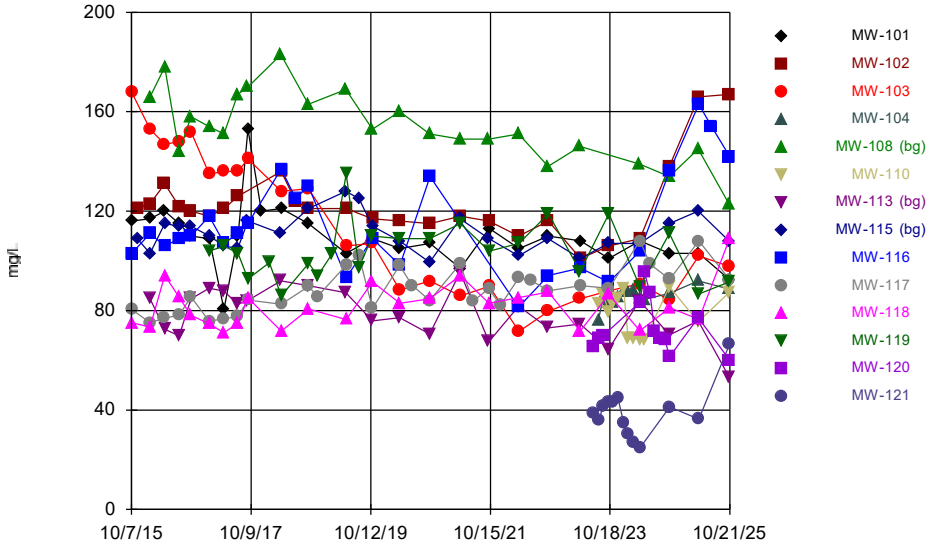
Time Series



Constituent: Chloride Analysis Run 10/30/2025 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.02 Software licensed to Olsson. UG

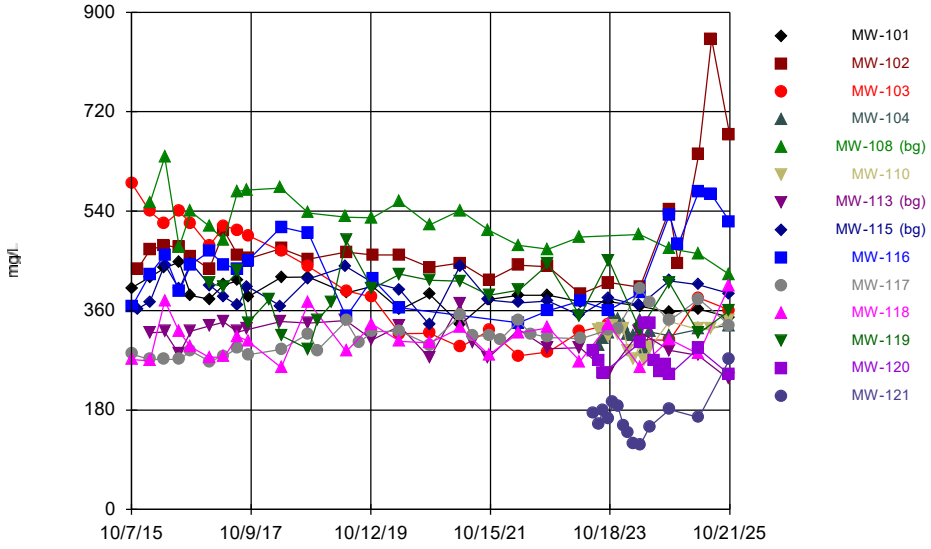
Time Series



Constituent: Calcium Analysis Run 10/30/2025 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.02 Software licensed to Olsson. UG

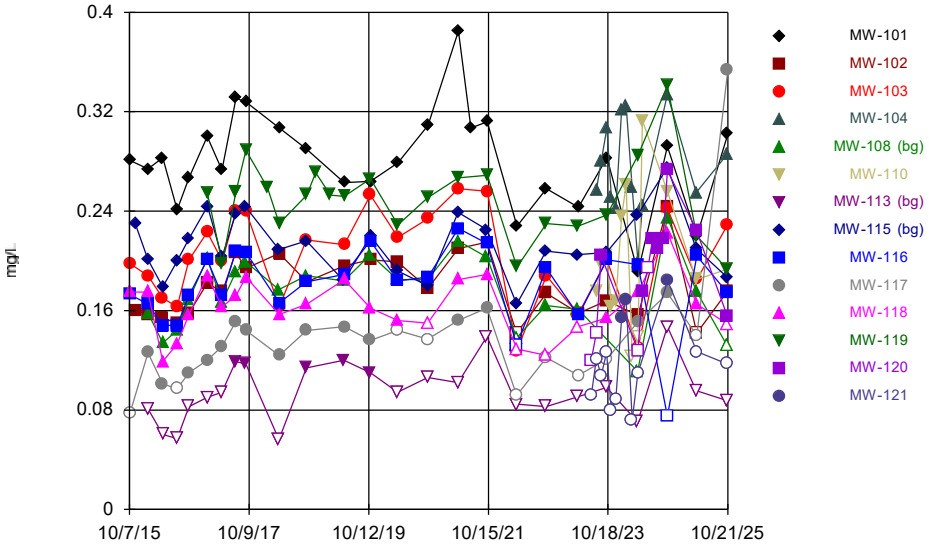
Time Series



Constituent: Dissolved Solids Analysis Run 10/30/2025 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.02 Software licensed to Olsson. UG
Hollow symbols indicate censored values.

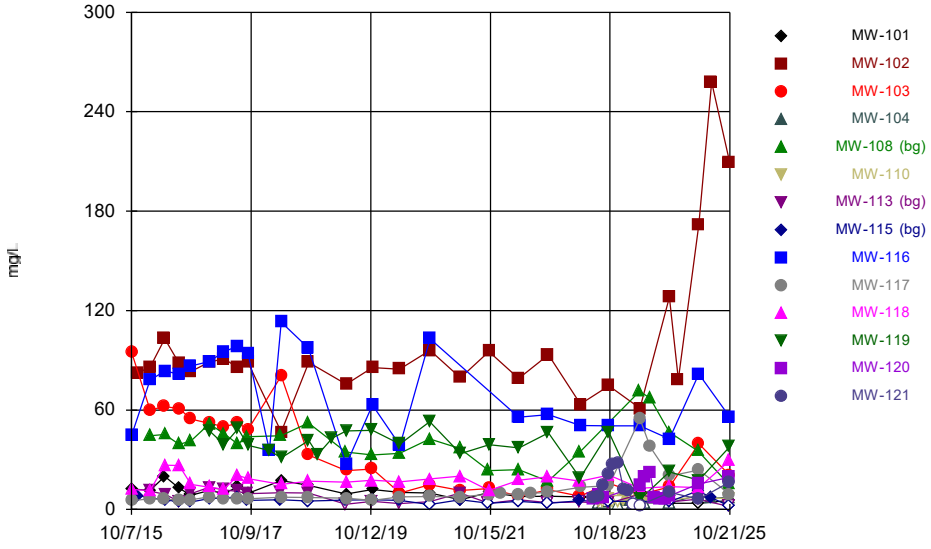
Time Series



Constituent: Fluoride Analysis Run 10/30/2025 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.02 Software licensed to Olsson. UG
Hollow symbols indicate censored values.

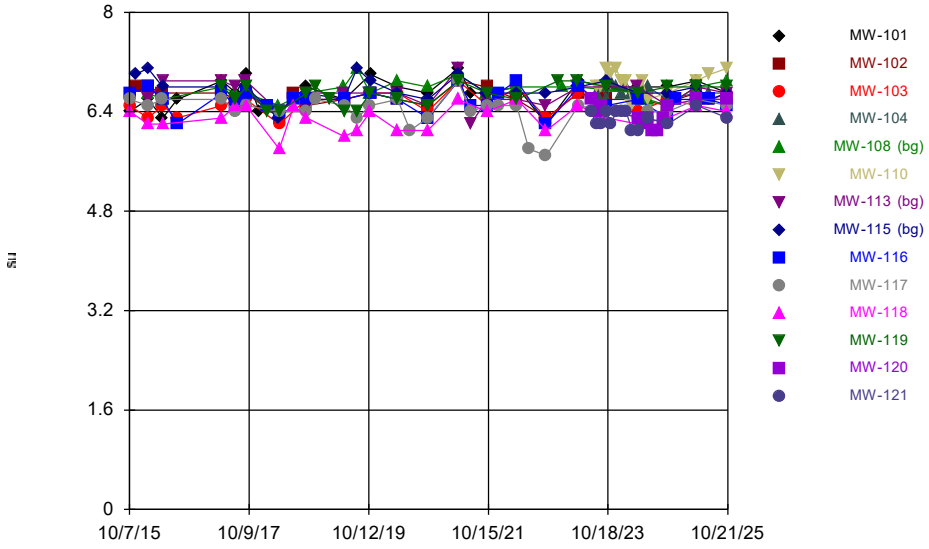
Time Series



Constituent: Sulfate Analysis Run 10/30/2025 3:12 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.02 Software licensed to Olsson. UG

Time Series

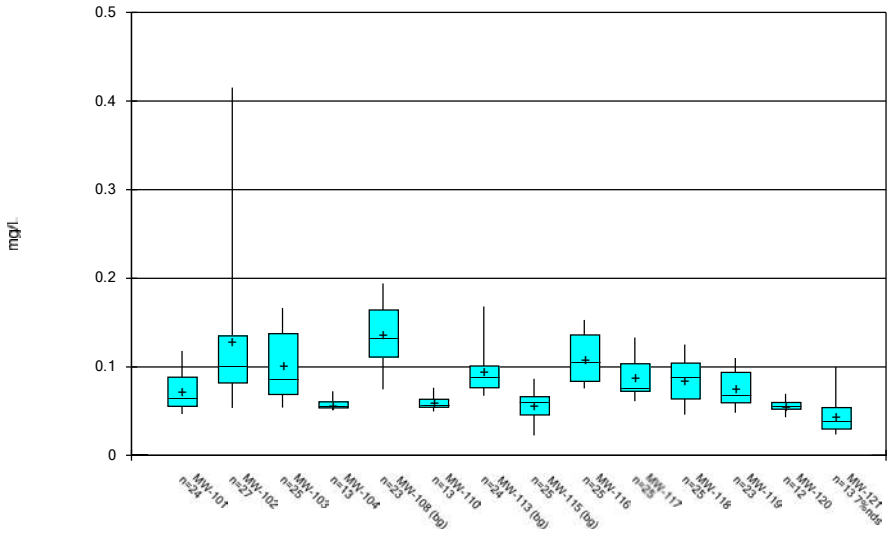


Constituent: pH Analysis Run 11/7/2025 11:05 AM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

BOX-AND-WHISKER PLOTS
SECOND HALF OF 2025 DATA SET

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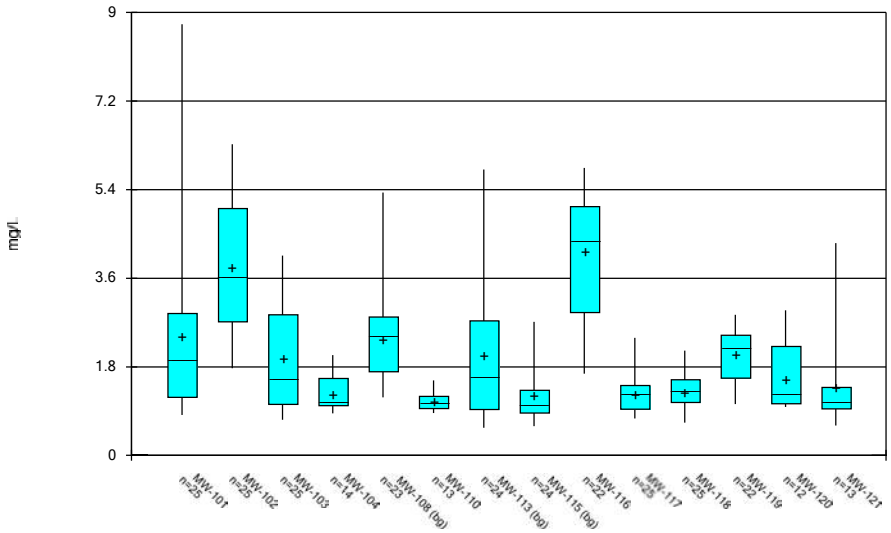
Box & Whiskers Plot



Constituent: Boron Analysis Run 10/30/2025 3:14 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.02 Software licensed to Olsson. UG

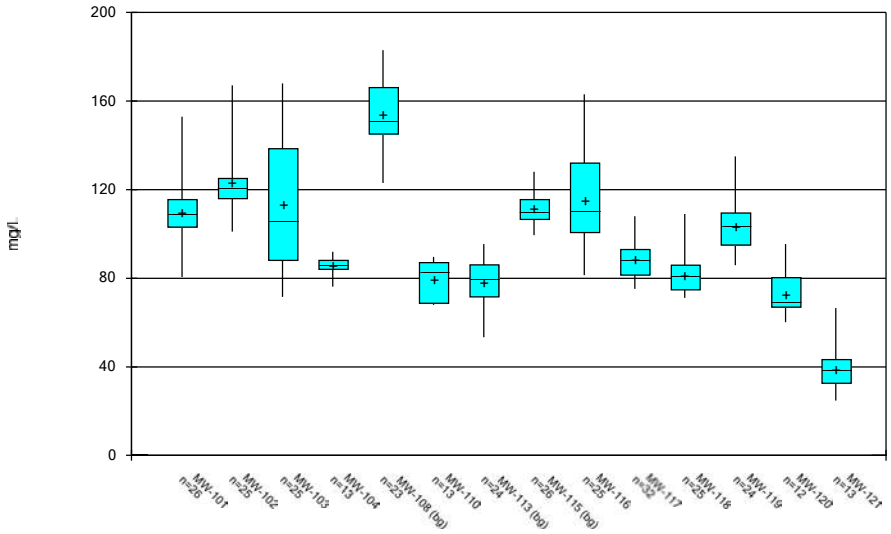
Box & Whiskers Plot



Constituent: Chloride Analysis Run 10/30/2025 3:14 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.02 Software licensed to Olsson. UG

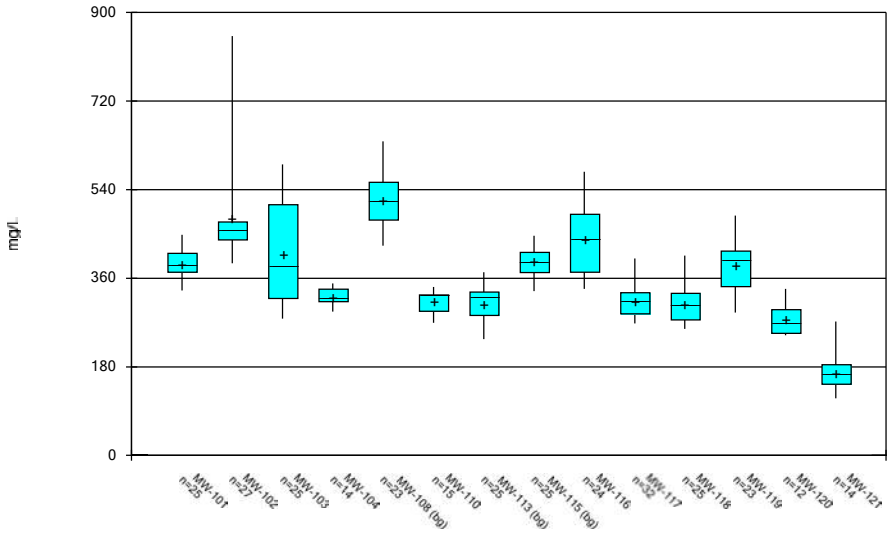
Box & Whiskers Plot



Constituent: Calcium Analysis Run 10/30/2025 3:14 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.02 Software licensed to Olsson. UG

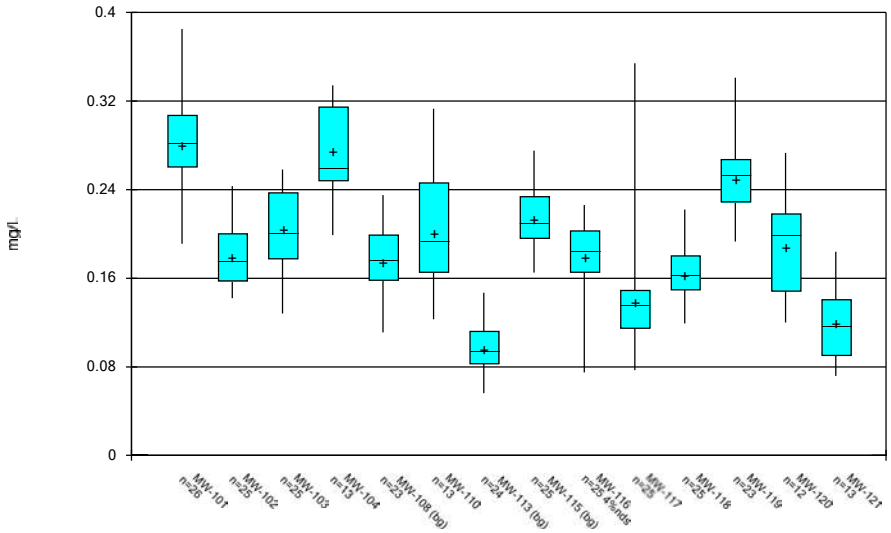
Box & Whiskers Plot



Constituent: Dissolved Solids Analysis Run 10/30/2025 3:14 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.02 Software licensed to Olsson. UG

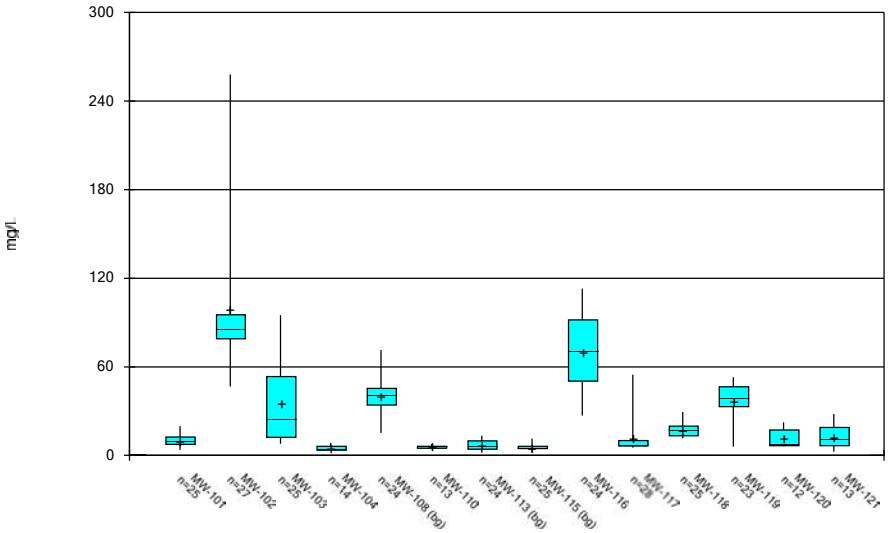
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 10/30/2025 3:14 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.02 Software licensed to Olsson. UG

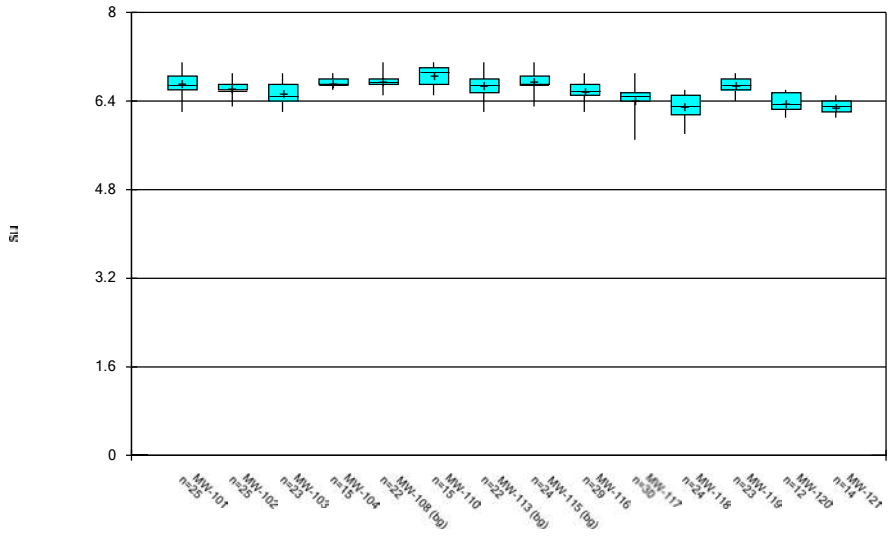
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 10/30/2025 3:14 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.02 Software licensed to Olsson. UG

Box & Whiskers Plot

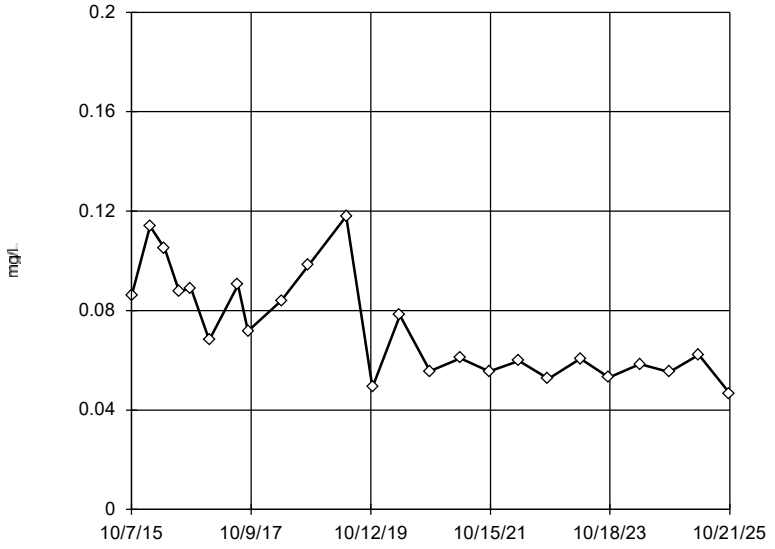


Constituent: pH Analysis Run 11/7/2025 11:10 AM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

OUTLIER PLOTS
PERIOD-OF-RECORD DATA THROUGH SECOND HALF OF 2025 DATA SET

EPA Screening (suspected outliers for Rosner's Test)

MW-101



n = 24

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.0733, std. dev. 0.02114, critical Tn 2.644

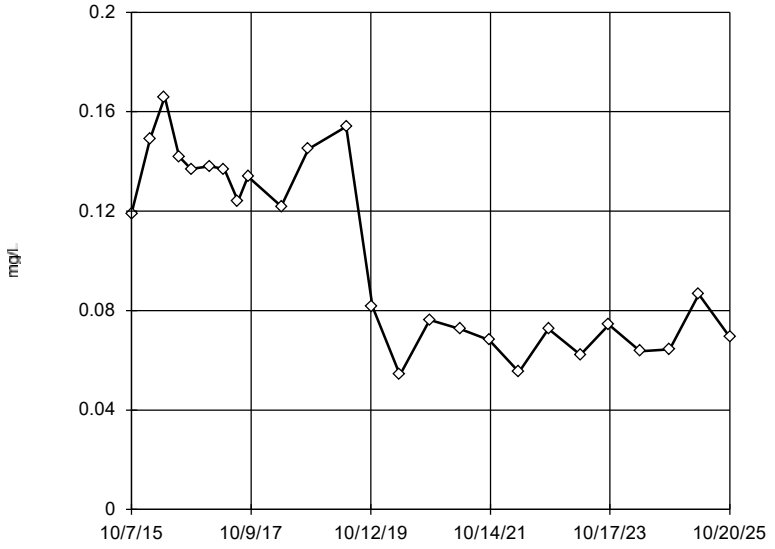
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9353
Critical = 0.93 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Boron Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-103



n = 25

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

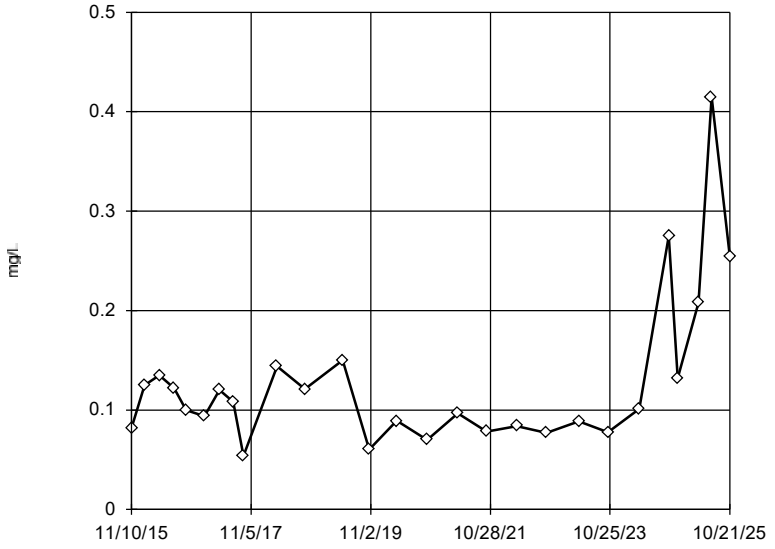
High cutoff = 1.103, low cutoff = 0.008568, based on IQR multiplier of 3.

Constituent: Boron Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Rosner's Outlier Test

MW-102



n = 27

No statistical outliers.

k = 1
r = 2.764
Tabulated value = 2.872
Alpha = 0.01

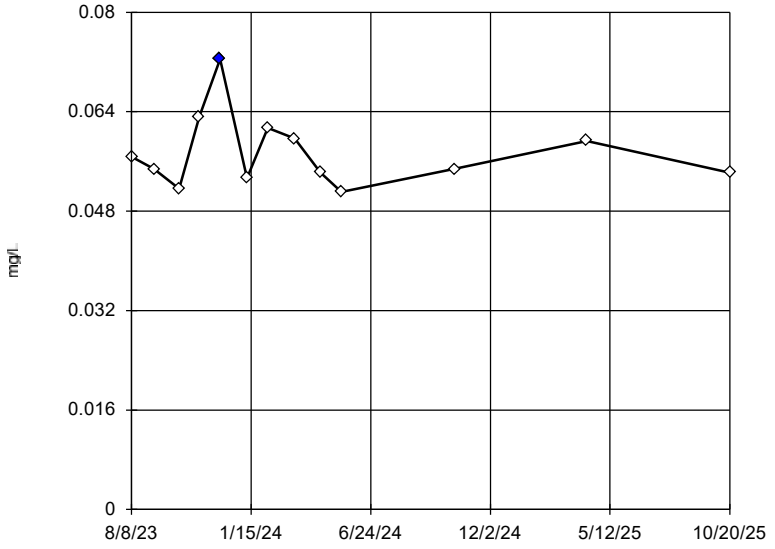
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9514
Critical = 0.933 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Boron Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Dixon's Outlier Test

MW-104



n = 13

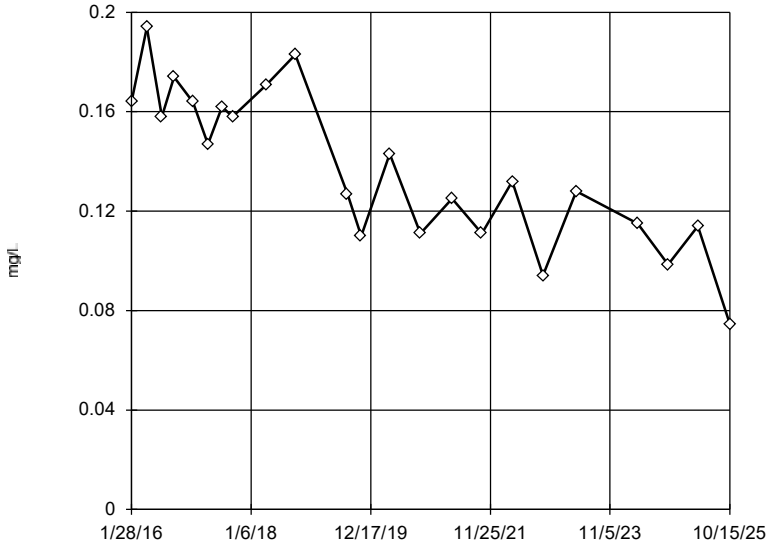
Statistical outlier is drawn as solid.
Testing for 1 high outlier.
Mean = 0.05745.
Std. Dev. = 0.005852.
0.0725 (J): c = 0.5311
tabl = 0.521.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9327
Critical = 0.883
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Boron Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Rosner's Test)

MW-108 (bg)



n = 23

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.1373, std. dev. 0.03137, critical Tn 2.624

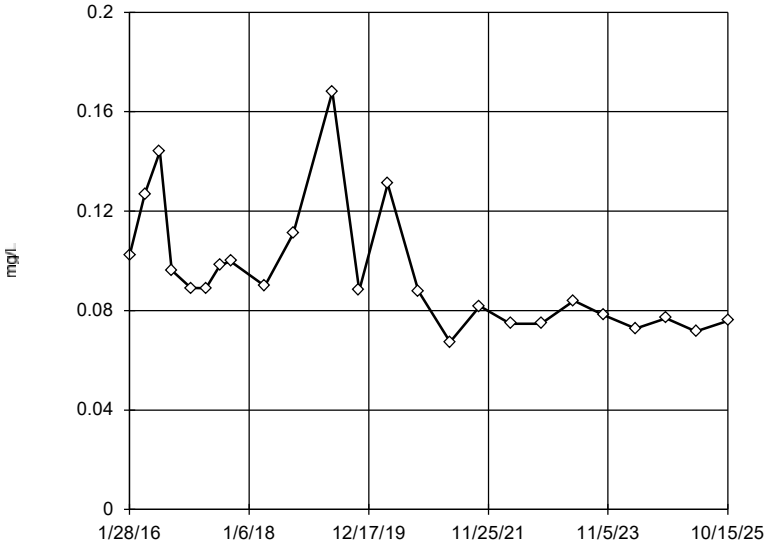
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9726
Critical = 0.928
The distribution was found to be normally distributed.

Constituent: Boron Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-113 (bg)



n = 24

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

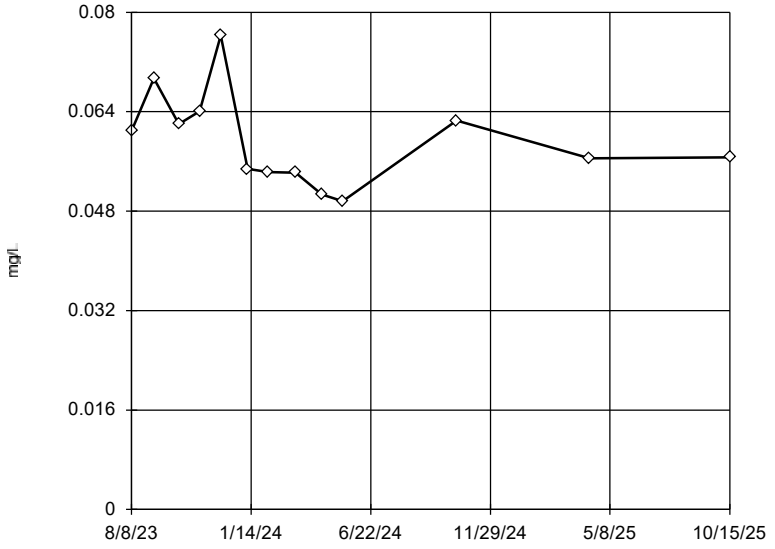
High cutoff = 0.2328,
low cutoff = 0.03308,
based on IQR multiplier of 3.

Constituent: Boron Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-110



n = 13

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.05939, std. dev. 0.007575, critical Tn 2.331

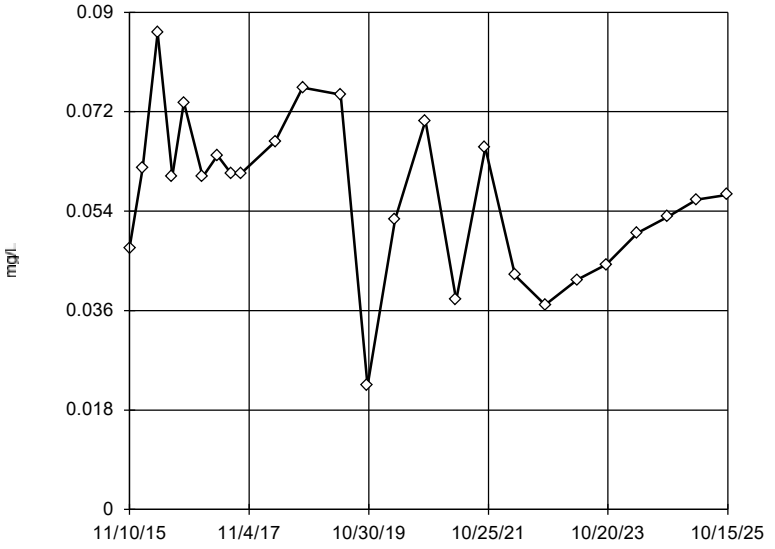
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9339
Critical = 0.889
The distribution was found to be normally distributed.

Constituent: Boron Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Rosner's Outlier Test

MW-115 (bg)



n = 25

No statistical outliers.

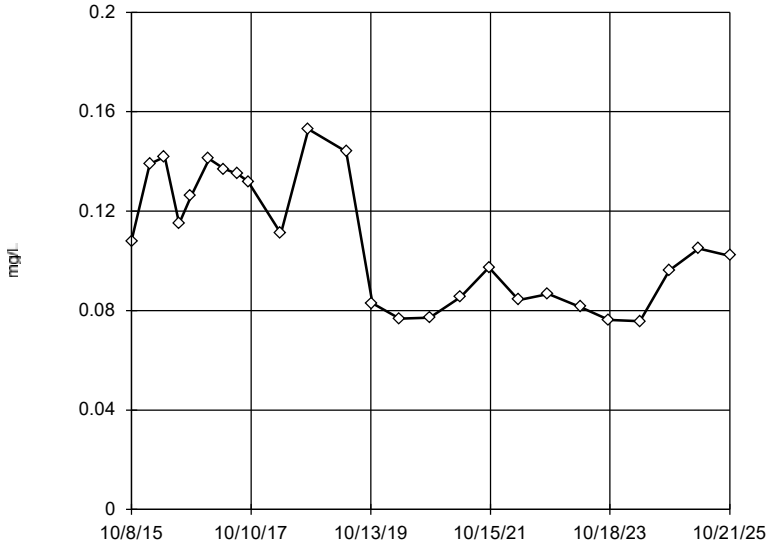
k = 1
r = 2.379
Tabulated value = 2.84
Alpha = 0.01

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9778
Critical = 0.93
The distribution was found to be normally distributed.

Constituent: Boron Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Tukey's Outlier Screening

MW-116



n = 25

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

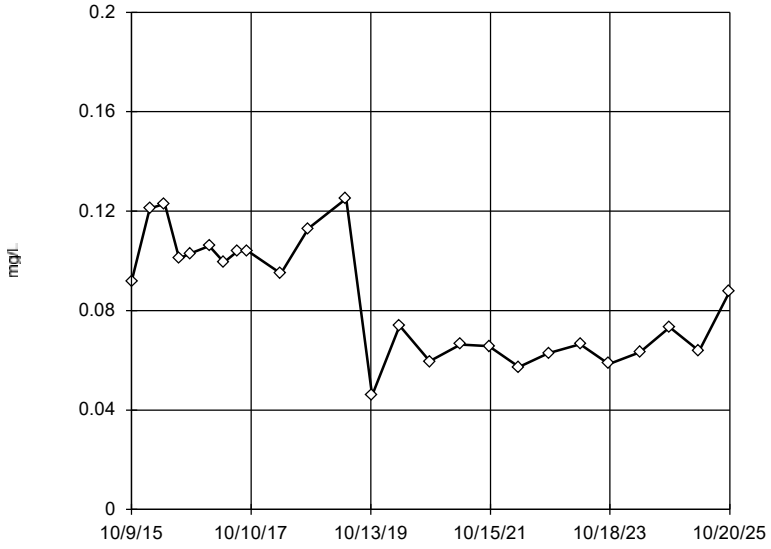
High cutoff = 0.5866, low cutoff = 0.01937, based on IQR multiplier of 3.

Constituent: Boron Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-118



n = 25

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

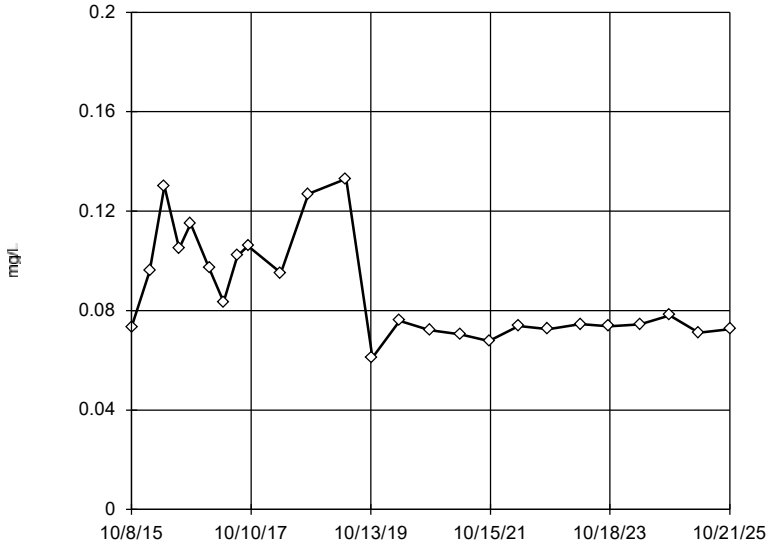
High cutoff = 0.3203, low cutoff = 0.006333, based on IQR multiplier of 3.

Constituent: Boron Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-117



n = 25

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

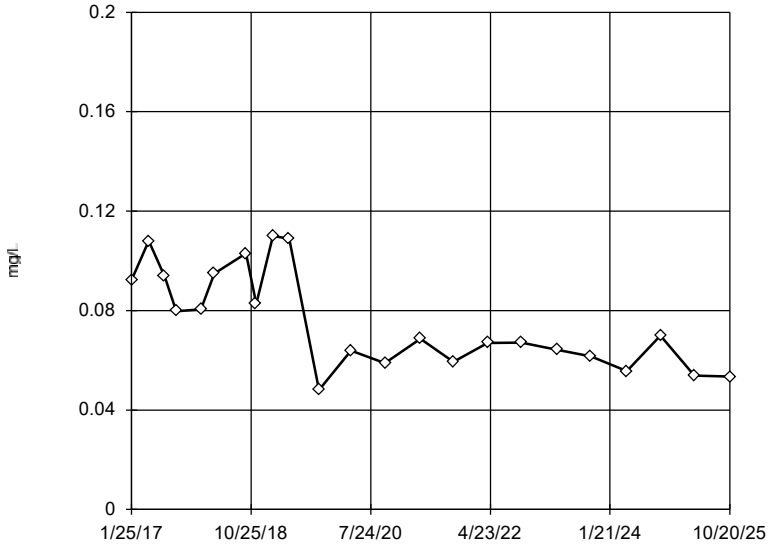
High cutoff = 0.3004, low cutoff = 0.025, based on IQR multiplier of 3.

Constituent: Boron Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-119



n = 23

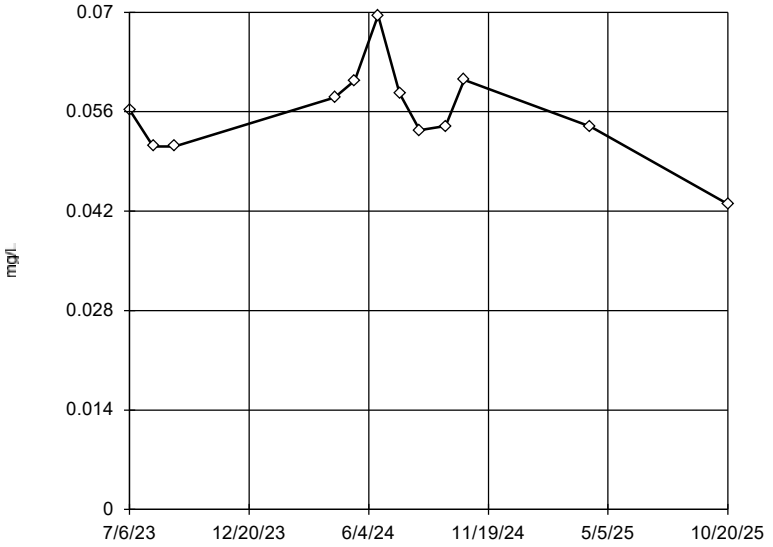
Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.07588, std. dev. 0.01968, critical Tn 2.624

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9411
Critical = 0.928 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Boron Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Dixon's Test)

MW-120



n = 12

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.05583, std. dev. 0.006517, critical Tn 2.285

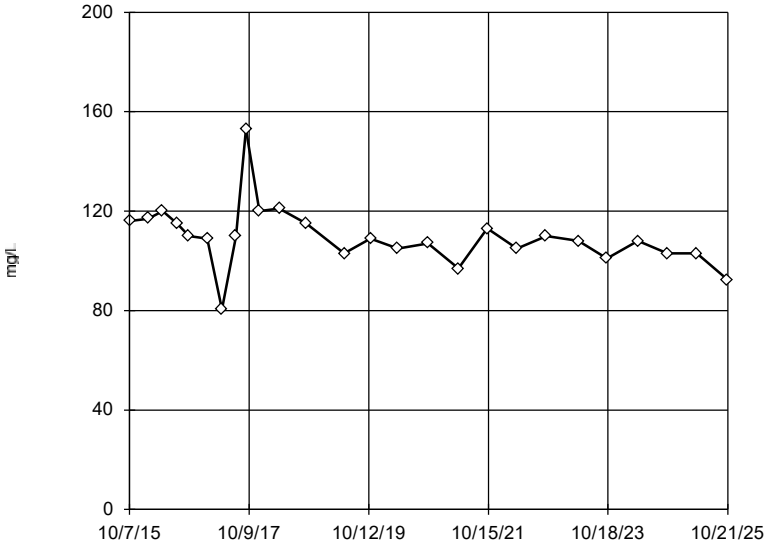
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9568
Critical = 0.883
The distribution was found to be normally distributed.

Constituent: Boron Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-101



n = 26

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

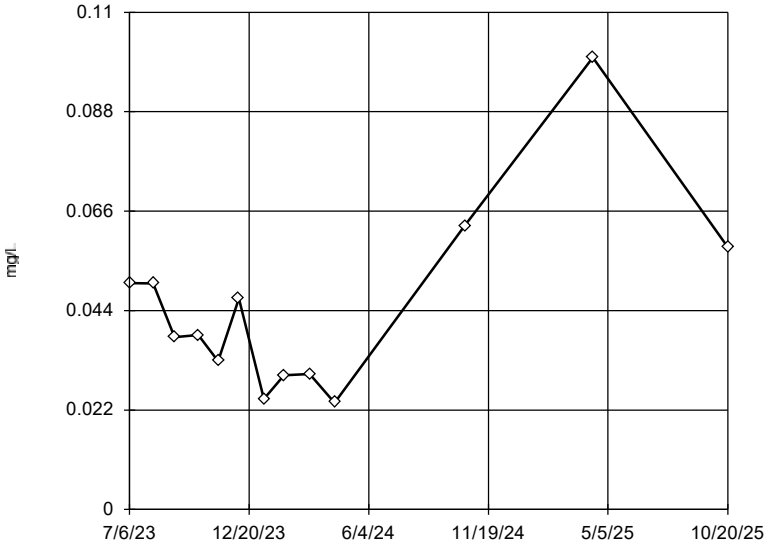
High cutoff = 162.9, low cutoff = 73.05, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-121



n = 13

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.04498, std. dev. 0.0207, critical Tn 2.331

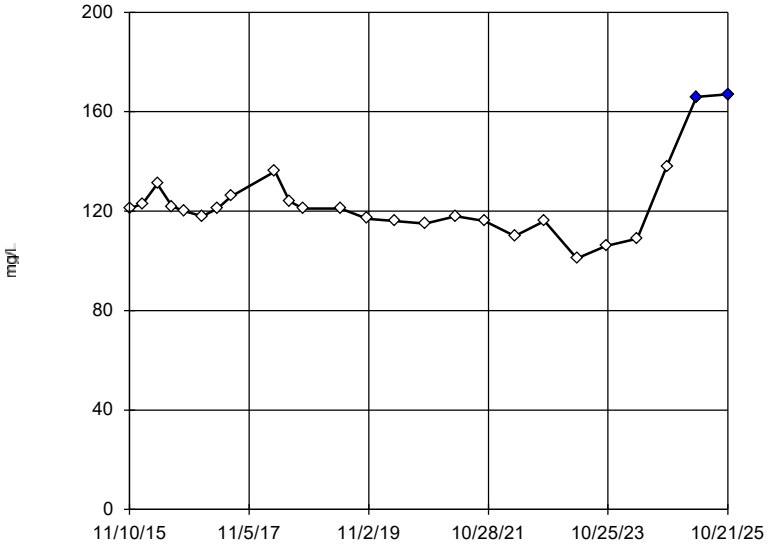
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9592
Critical = 0.889 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Boron Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Rosner's Outlier Test

MW-102



n = 25

Statistical outliers are drawn as solid.

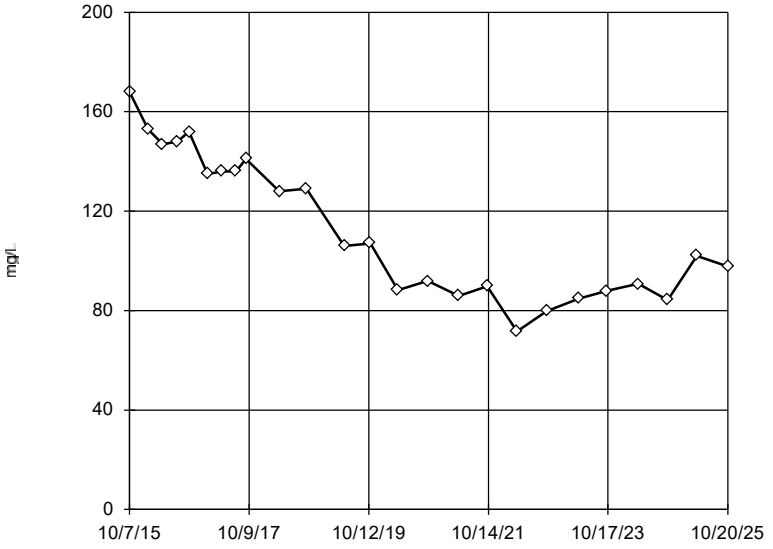
k = 2
r = 3.516
Tabulated value = 3.22
Alpha = 0.01

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9606
Critical = 0.928
The distribution, after removal of suspect values, was found to be normally distributed.

Constituent: Calcium Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Tukey's Outlier Screening

MW-103



n = 25

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

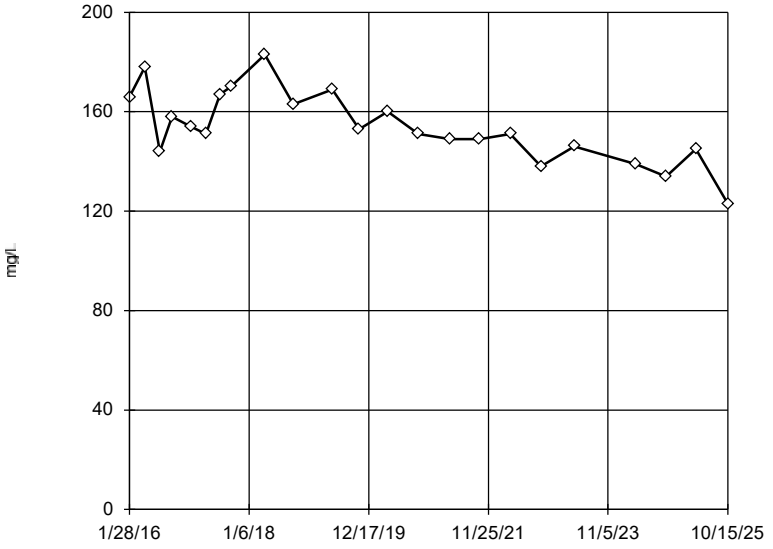
High cutoff = 537.8, low cutoff = 22.69, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-108 (bg)



n = 23

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 154, std. dev. 14.32, critical Tn 2.624

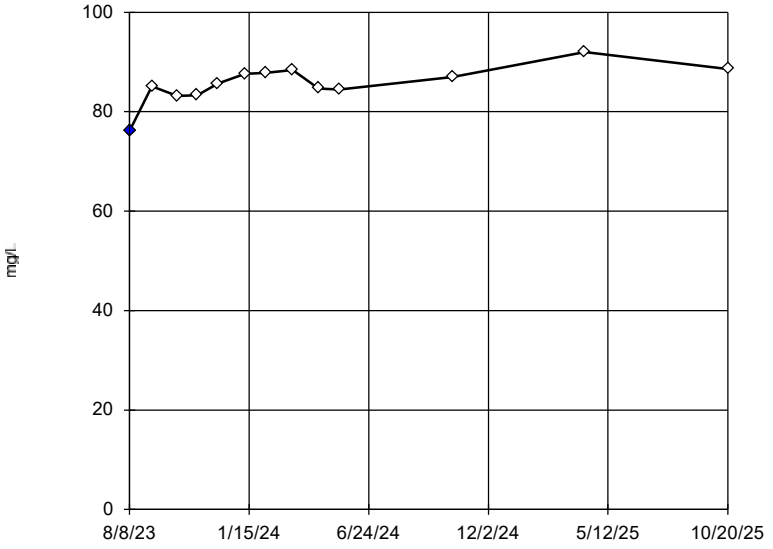
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9876
Critical = 0.928
The distribution was found to be normally distributed.

Constituent: Calcium Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Dixon's Outlier Test

MW-104



n = 13

Statistical outlier is drawn as solid.
Testing for 1 low outlier.
Mean = 85.69.
Std. Dev. = 3.787.
76.1: c = 0.576
tabl = 0.521.
Alpha = 0.05.

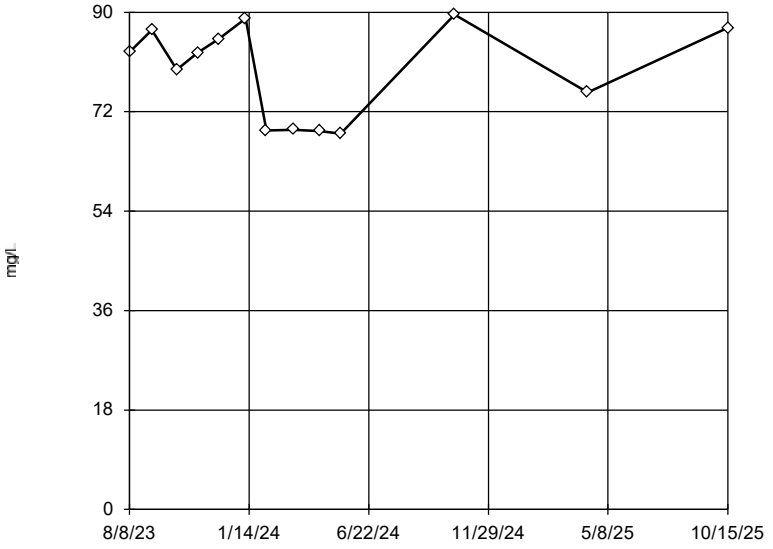
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9419
Critical = 0.883
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Calcium Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-110



n = 13

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

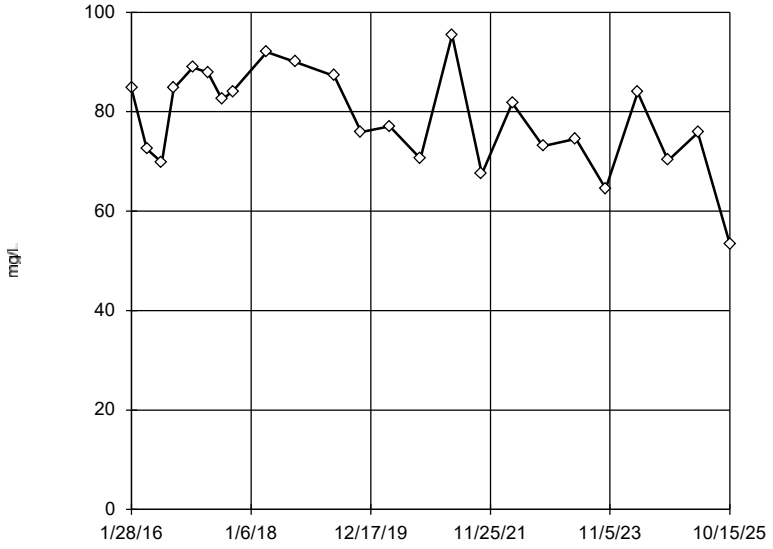
Data were x^6 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 106, low cutoff = -97.93, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Rosner's Outlier Test

MW-113 (bg)



n = 24

No statistical outliers.

k = 1
r = 2.535
Tabulated value = 2.824
Alpha = 0.01

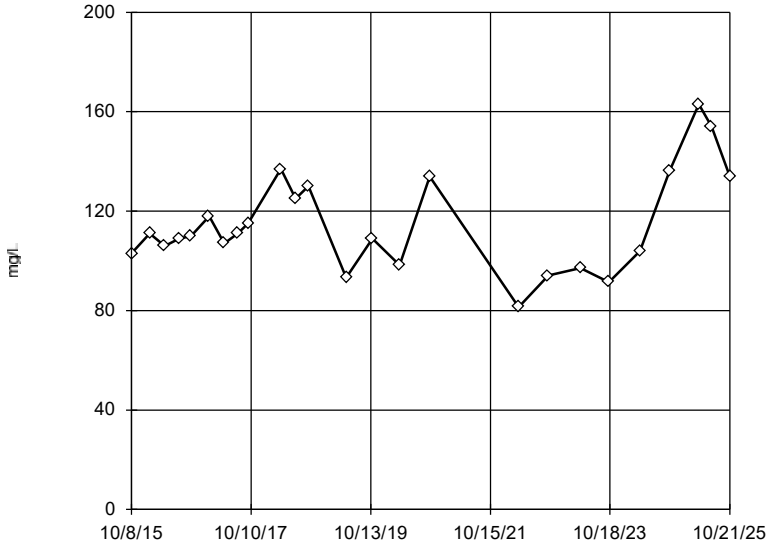
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9656
Critical = 0.928
The distribution was found to be normally distributed.

Constituent: Calcium Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-116



n = 25

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 114.9, std. dev. 19.94, critical Tn 2.663

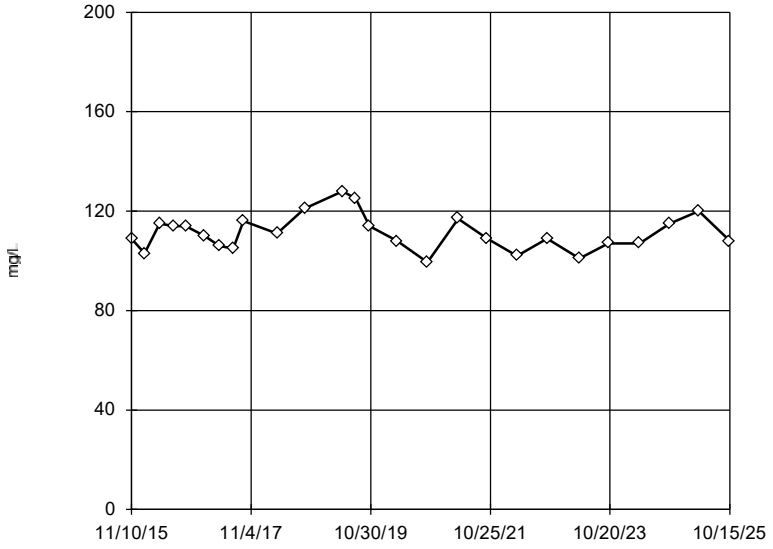
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9486
Critical = 0.931
The distribution was found to be normally distributed.

Constituent: Calcium Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-115 (bg)



n = 26

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 111.3, std. dev. 7.176, critical Tn 2.681

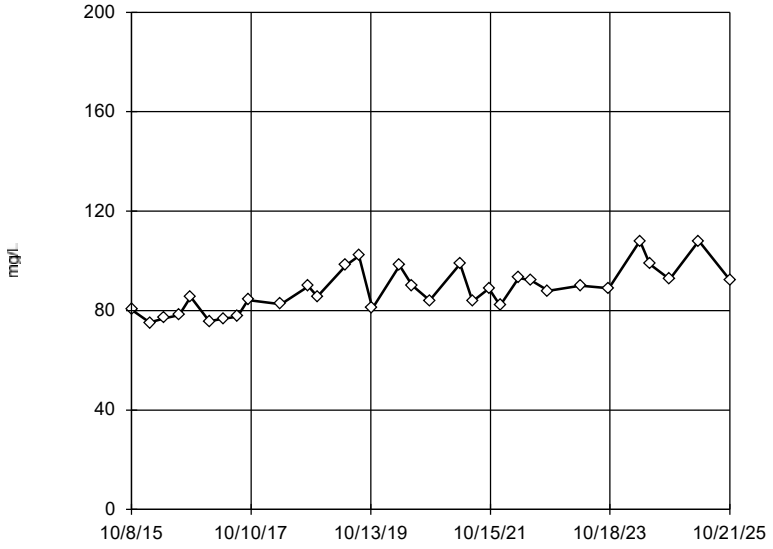
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9679
Critical = 0.933
The distribution was found to be normally distributed.

Constituent: Calcium Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-117



n = 32

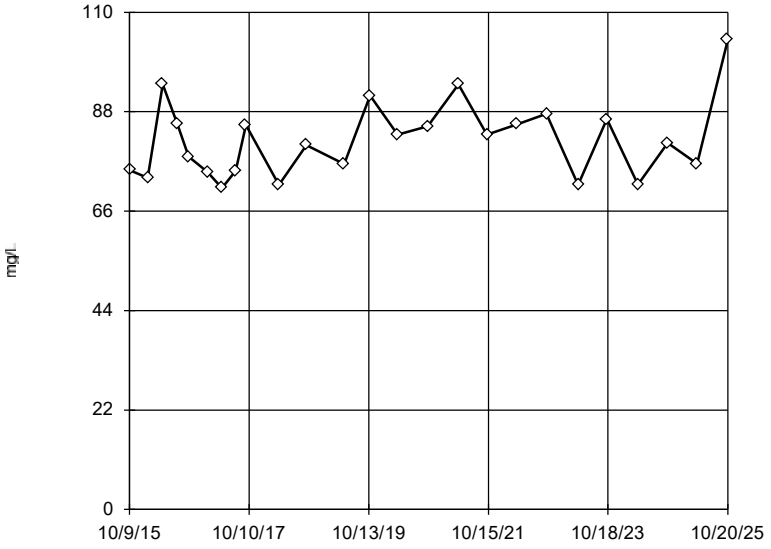
Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 88.35, std. dev. 9.039, critical Tn 2.773

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9488
Critical = 0.941
The distribution was found to be normally distributed.

Constituent: Calcium Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Rosner's Test)

MW-118



n = 25

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 81.66, std. dev. 8.392, critical Tn 2.663

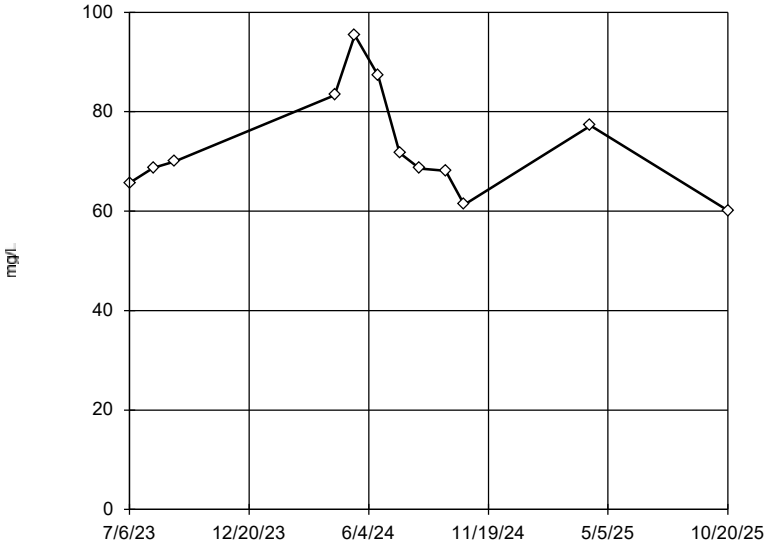
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9433
Critical = 0.931 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Calcium Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-120



n = 12

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 73.12, std. dev. 10.7, critical Tn 2.285

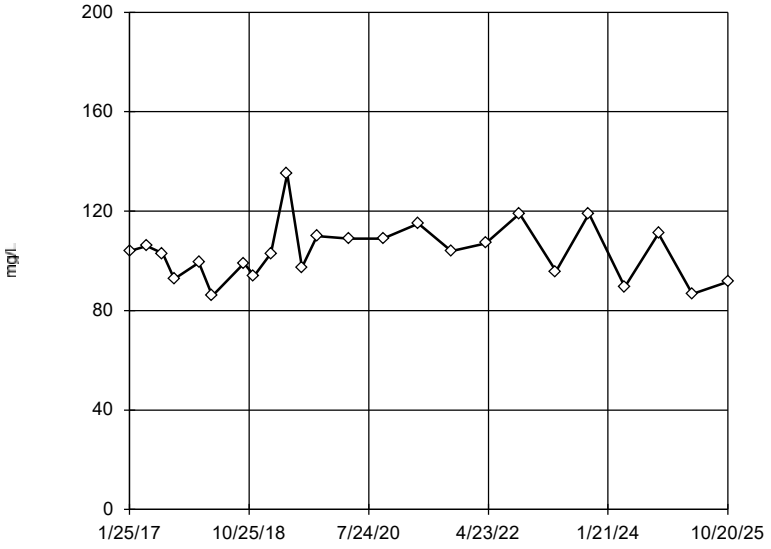
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9113
Critical = 0.883
The distribution was found to be normally distributed.

Constituent: Calcium Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-119



n = 24

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 103.6, std. dev. 11.53, critical Tn 2.644

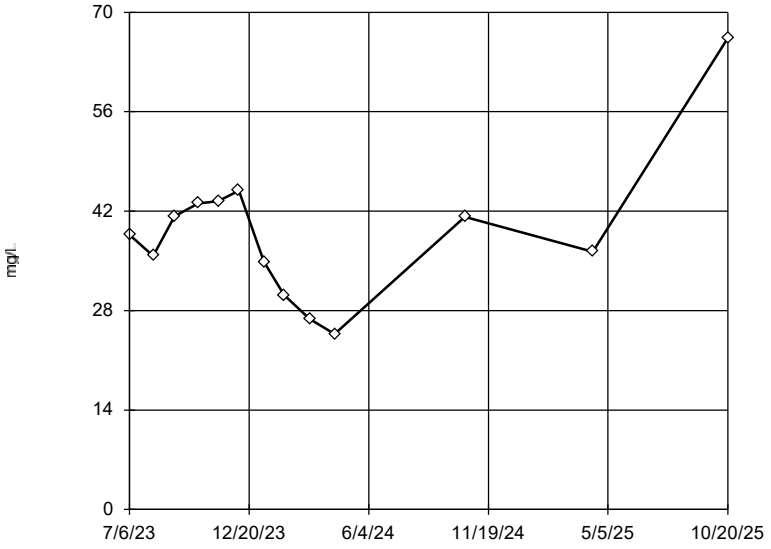
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9605
Critical = 0.93
The distribution was found to be normally distributed.

Constituent: Calcium Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-121



n = 13

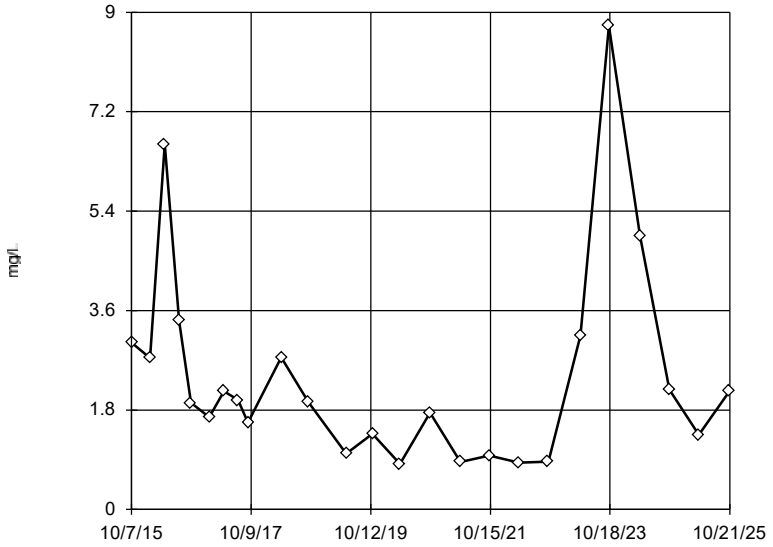
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 39.05, std. dev. 10.4, critical Tn 2.331

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9458
Critical = 0.889 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Calcium Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Rosner's Test)

MW-101



n = 25

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 2.432, std. dev. 1.883, critical Tn 2.663

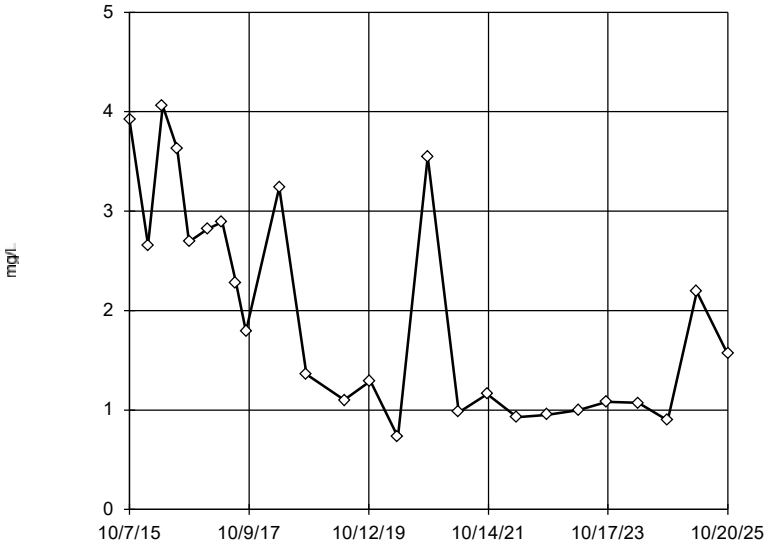
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9458
Critical = 0.931 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Chloride Analysis Run 1/7/2026 3:19 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-103



n = 25

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

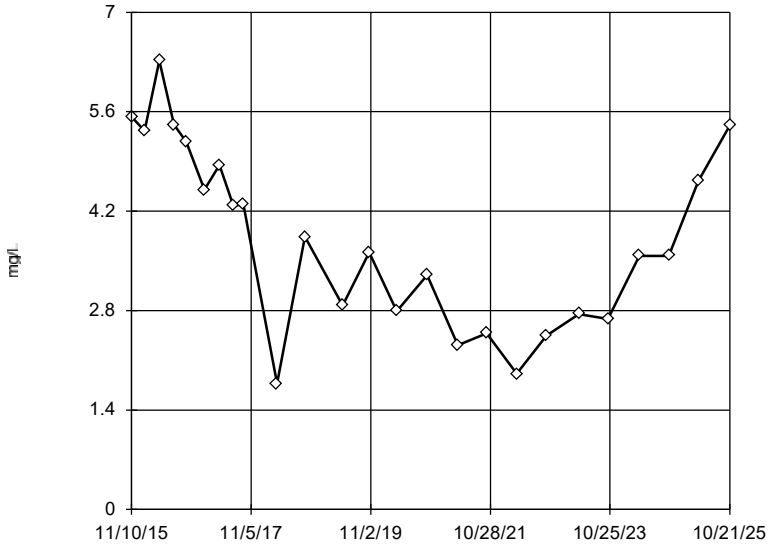
High cutoff = 60.01, low cutoff = 0.04921, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-102



n = 25

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 3.826, std. dev. 1.285, critical Tn 2.663

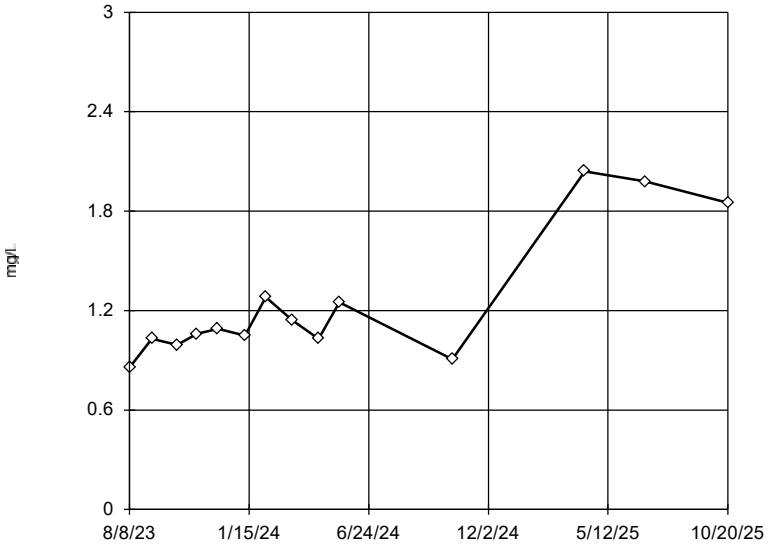
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.956
Critical = 0.931
The distribution was found to be normally distributed.

Constituent: Chloride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-104



n = 14

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

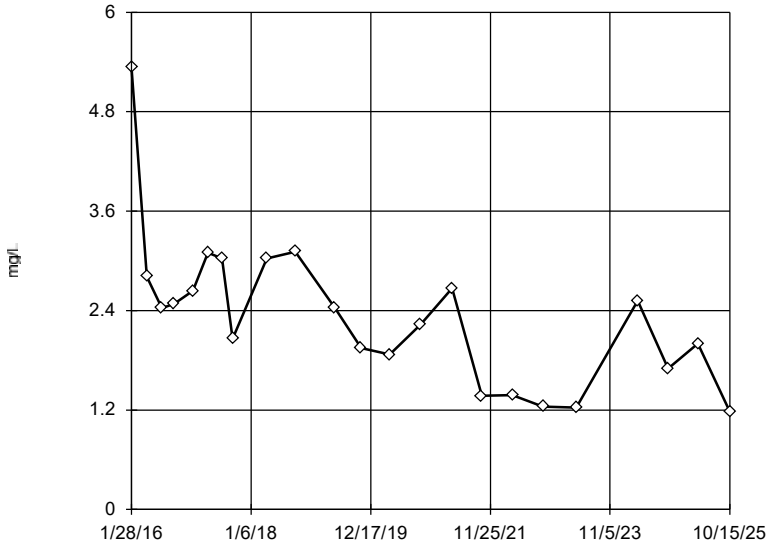
High cutoff = 5.421, low cutoff = 0.2871, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-108 (bg)



n = 23

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 2.34, std. dev. 0.9108, critical Tn 2.624

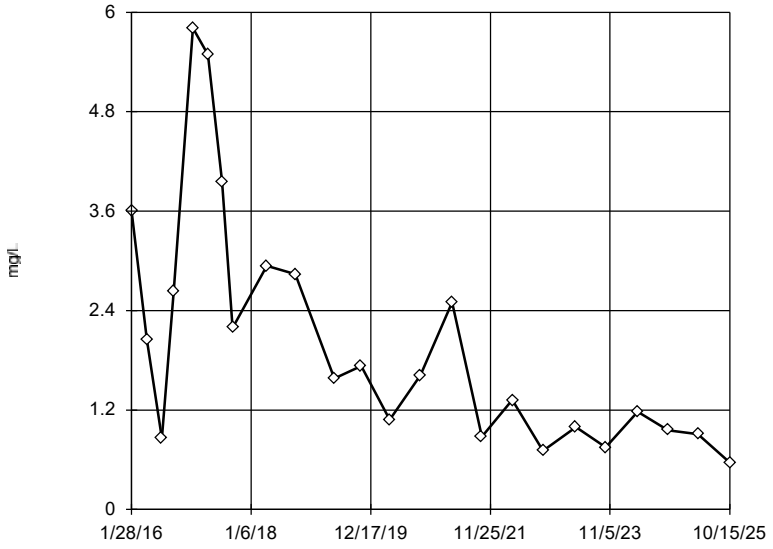
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9462
Critical = 0.928 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Chloride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-113 (bg)



n = 24

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 2.048, std. dev. 1.458, critical Tn 2.644

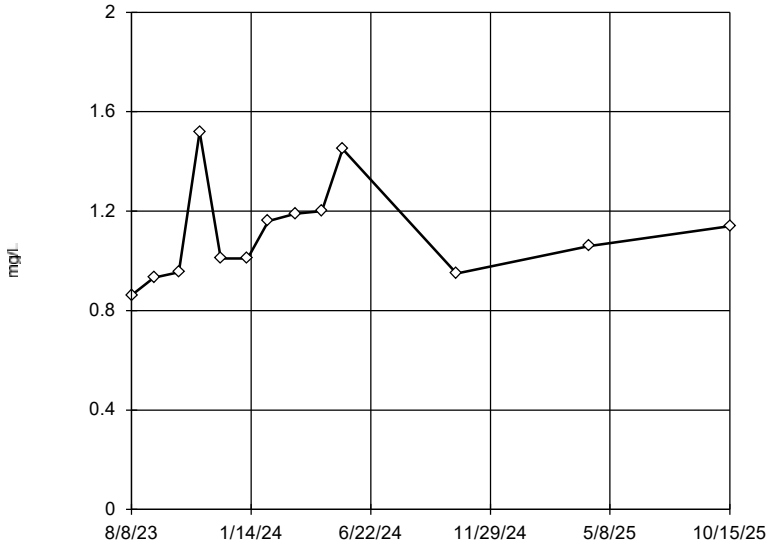
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9591
Critical = 0.93 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Chloride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-110



n = 13

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 1.111, std. dev. 0.1973, critical Tn 2.331

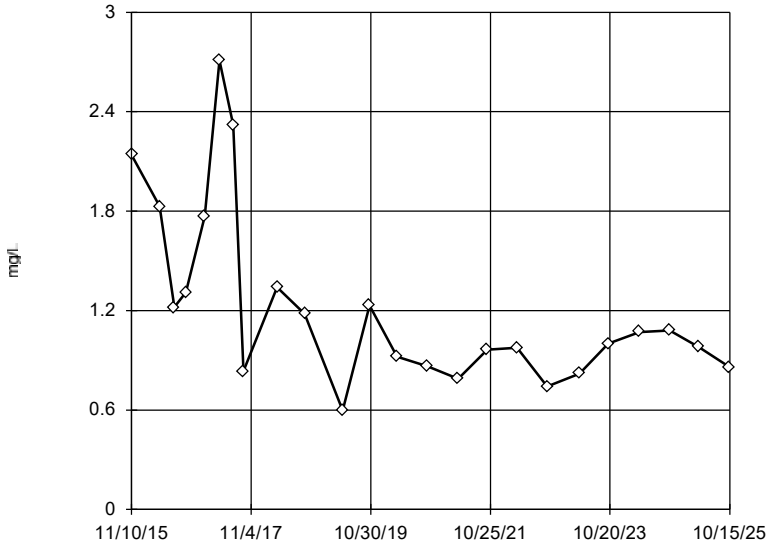
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9013
Critical = 0.889
The distribution was found to be normally distributed.

Constituent: Chloride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-115 (bg)



n = 24

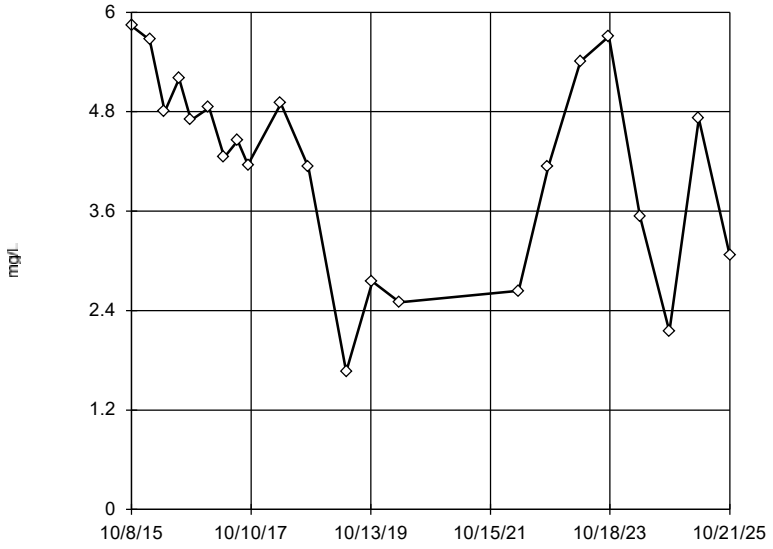
Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 1.231, std. dev. 0.5398, critical Tn 2.644

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.935
Critical = 0.93 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Chloride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Dixon's Test)

MW-116



n = 22

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 4.147, std. dev. 1.219, critical Tn 2.603

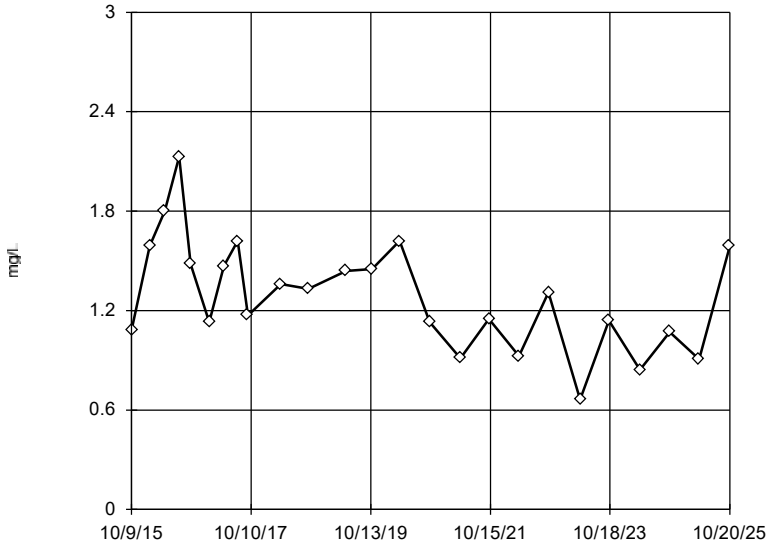
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9386
Critical = 0.926
The distribution was found to be normally distributed.

Constituent: Chloride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-118



n = 25

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 1.292, std. dev. 0.3357, critical Tn 2.663

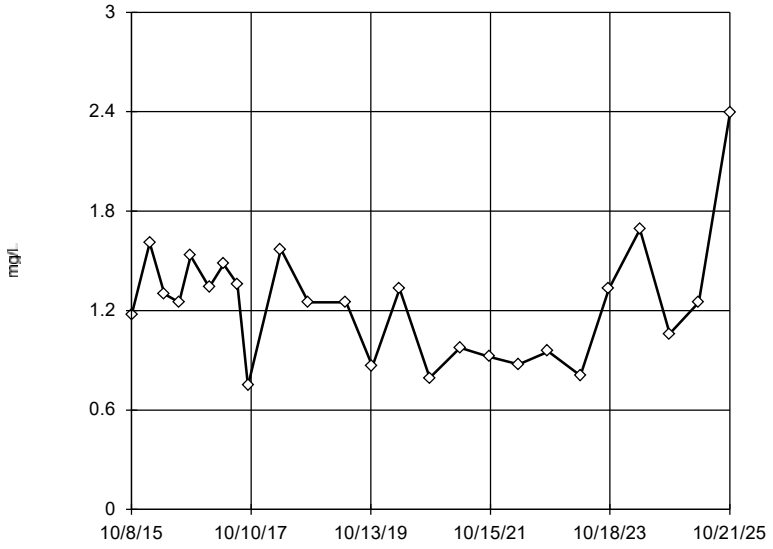
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9762
Critical = 0.931
The distribution was found to be normally distributed.

Constituent: Chloride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-117



n = 25

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 1.244, std. dev. 0.3624, critical Tn 2.663

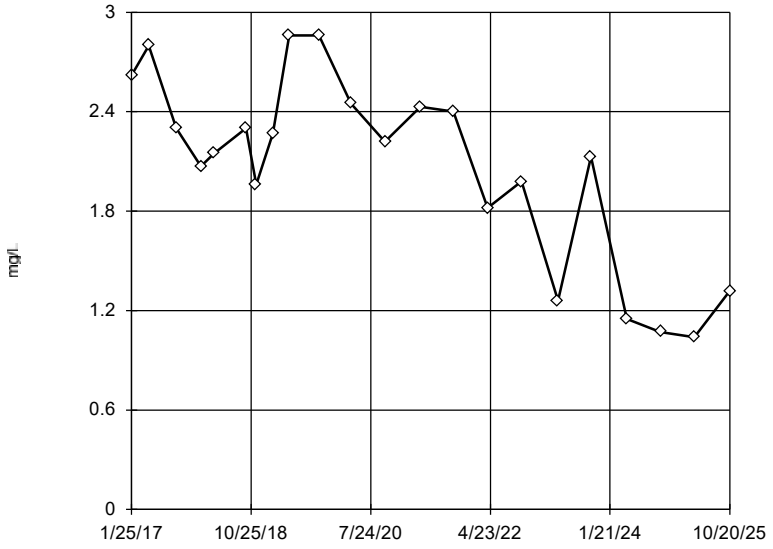
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9594
Critical = 0.931 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Chloride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-119



n = 22

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

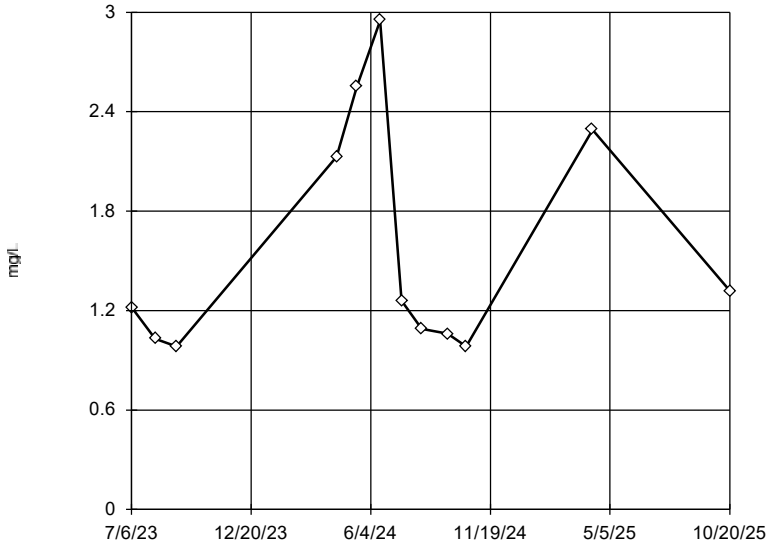
Data were square transformed to achieve best W statistic (graph shown in original units).

High cutoff = 4.029, low cutoff = -2.784, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Tukey's Outlier Screening

MW-120



n = 12

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

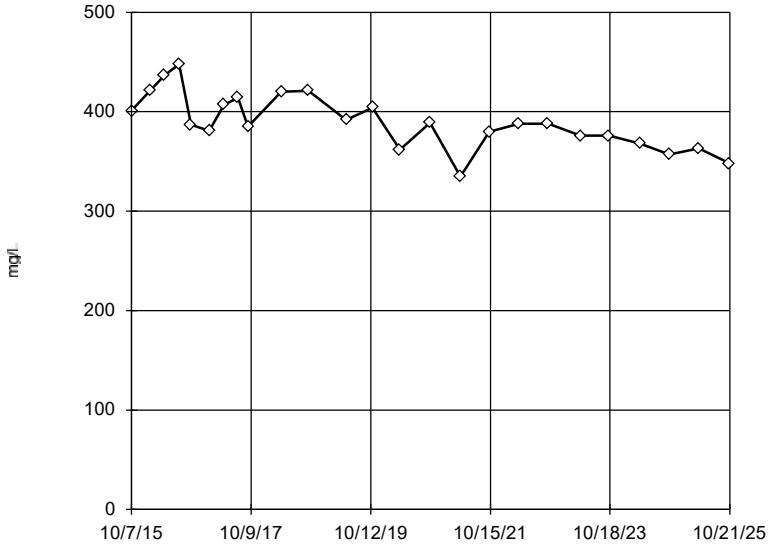
High cutoff = 20.86, low cutoff = 0.1107, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-101



n = 25

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 389.9, std. dev. 27.44, critical Tn 2.663

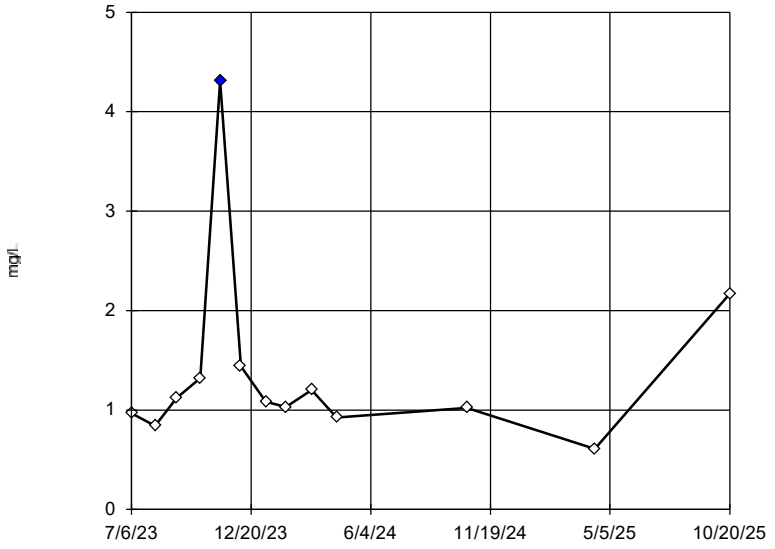
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9862
Critical = 0.931
The distribution was found to be normally distributed.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Dixon's Outlier Test

MW-121



n = 13

Statistical outlier is drawn as solid.
Testing for 1 high outlier.
Mean = 1.387.
Std. Dev. = 0.954.
4.31: c = 0.6714
tabl = 0.521.
Alpha = 0.05.

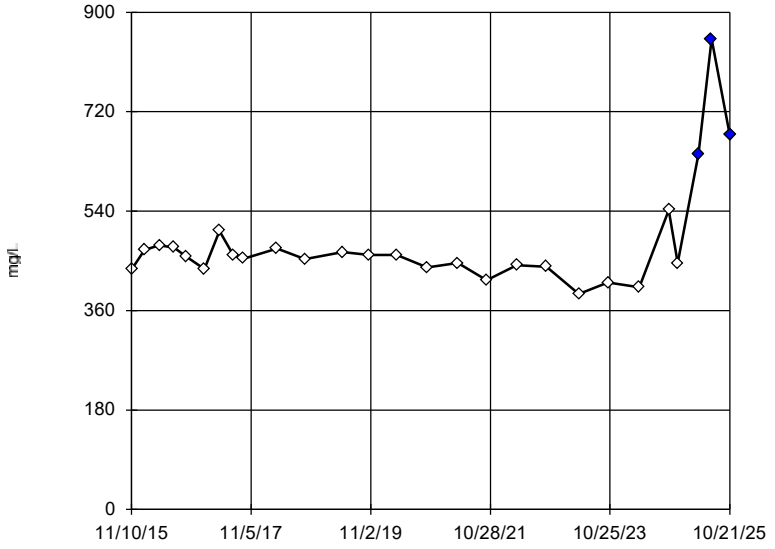
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9537
Critical = 0.883 (after natural log transformation)
The distribution, after removal of suspect value, was found to be log-normal.

Constituent: Chloride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Rosner's Outlier Test

MW-102



n = 27

Statistical outliers are drawn as solid.

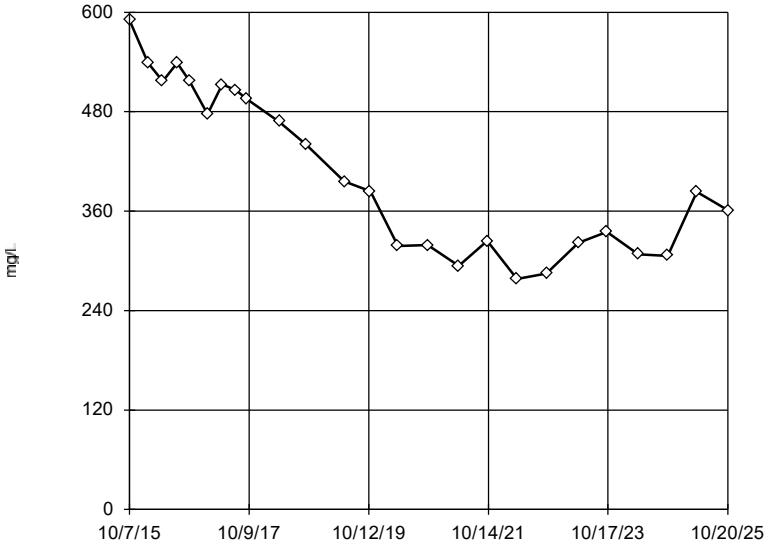
k = 3
r = 3.713
Tabulated value = 3.326
Alpha = 0.01

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9509
Critical = 0.93
The distribution, after removal of suspect values, was found to be normally distributed.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Tukey's Outlier Screening

MW-103



n = 25

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

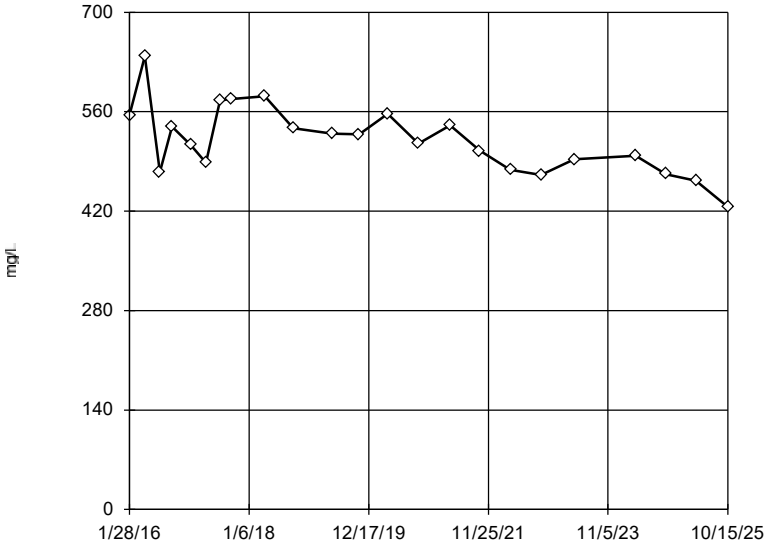
High cutoff = 2085, low cutoff = 77.81, based on IQR multiplier of 3.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-108 (bg)



n = 23

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 519.9, std. dev. 48.25, critical Tn 2.624

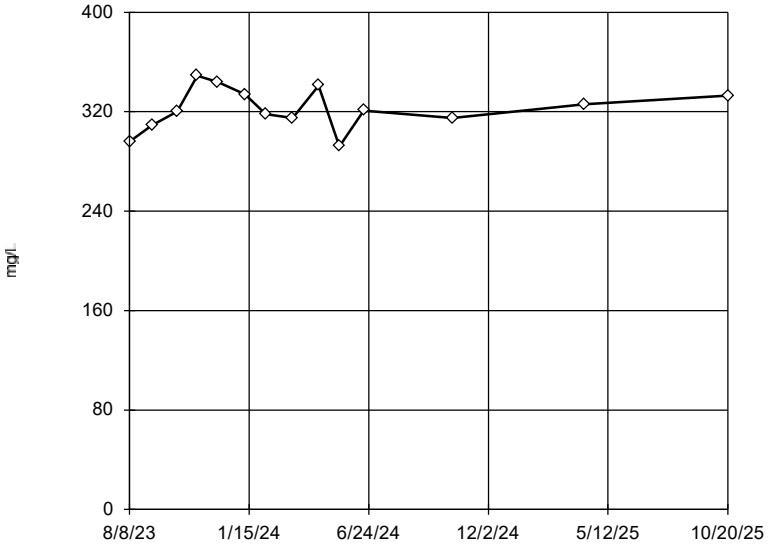
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9803
Critical = 0.928
The distribution was found to be normally distributed.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-104



n = 14

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 322.4, std. dev. 16.91, critical Tn 2.371

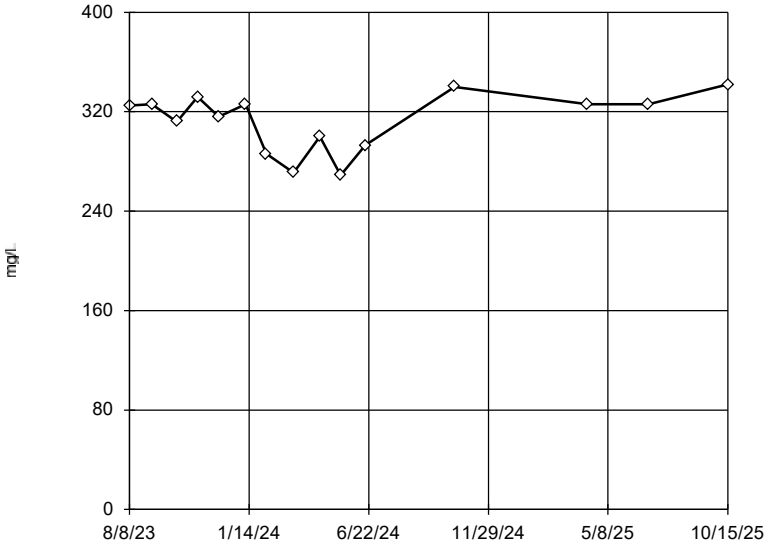
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9682
Critical = 0.895
The distribution was found to be normally distributed.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-110



n = 15

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

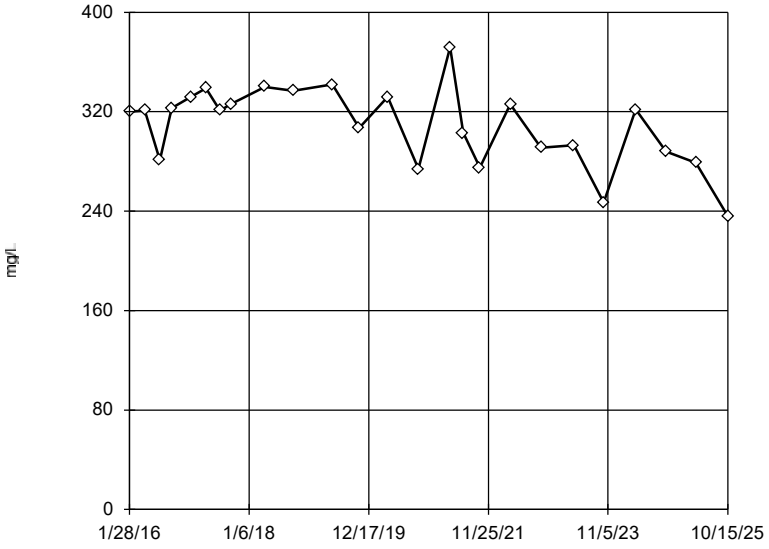
Data were x^6 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 377.7, low cutoff = -319.8, based on IQR multiplier of 3.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Rosner's Test)

MW-113 (bg)



n = 25

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 309.1, std. dev. 31.89, critical Tn 2.663

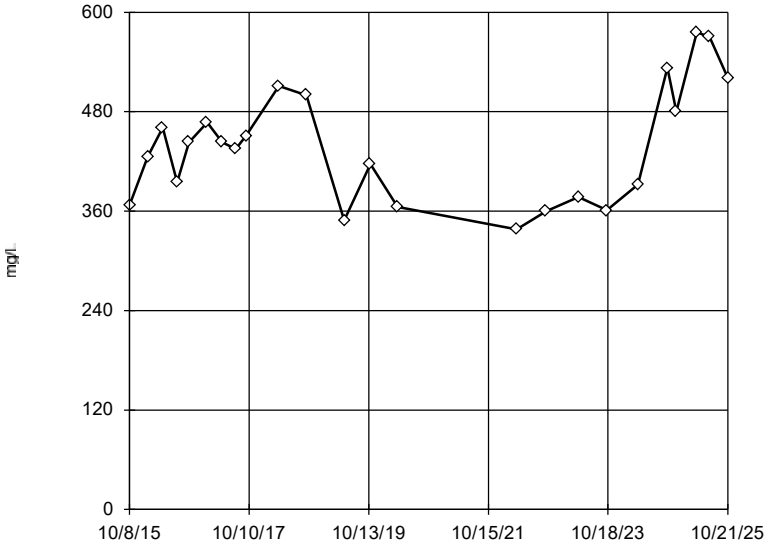
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9525
Critical = 0.931
The distribution was found to be normally distributed.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-116



n = 24

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 439.1, std. dev. 70.24, critical Tn 2.644

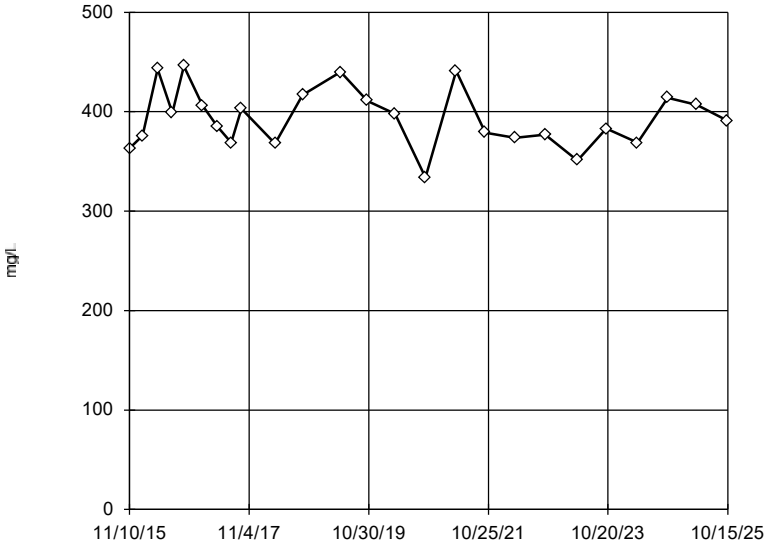
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9493
Critical = 0.93
The distribution was found to be normally distributed.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-115 (bg)



n = 25

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 393.8, std. dev. 29.49, critical Tn 2.663

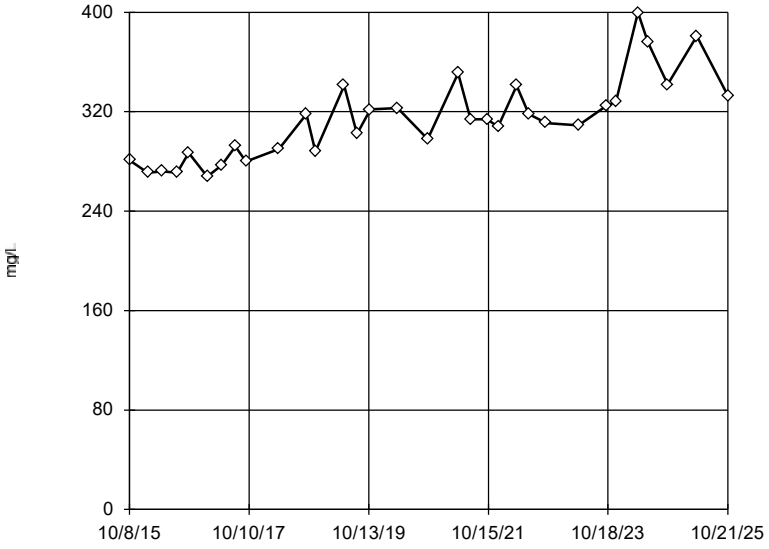
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9635
Critical = 0.931
The distribution was found to be normally distributed.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-117



n = 32

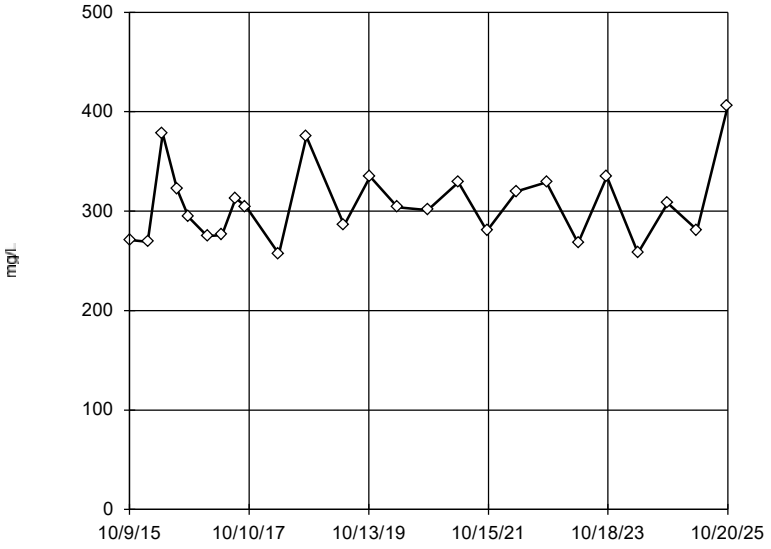
Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 313.5, std. dev. 33.27, critical Tn 2.773

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9549
Critical = 0.941 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Rosner's Test)

MW-118



n = 25

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 307, std. dev. 38.54, critical Tn 2.663

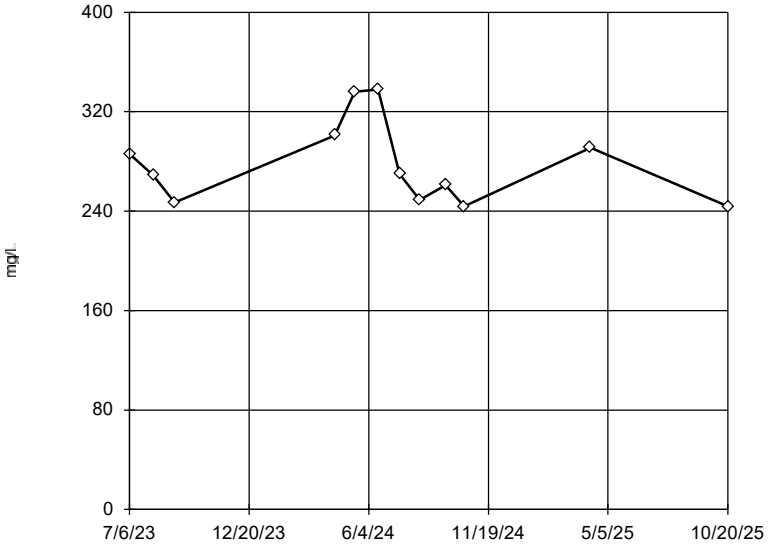
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.945
Critical = 0.931 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-120



n = 12

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 278, std. dev. 33.4, critical Tn 2.285

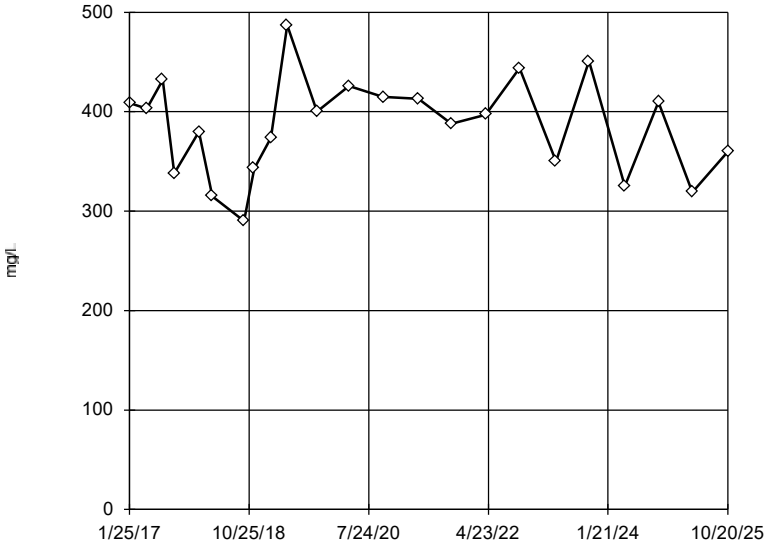
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.8922
Critical = 0.883 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-119



n = 23

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 385.6, std. dev. 49.34, critical Tn 2.624

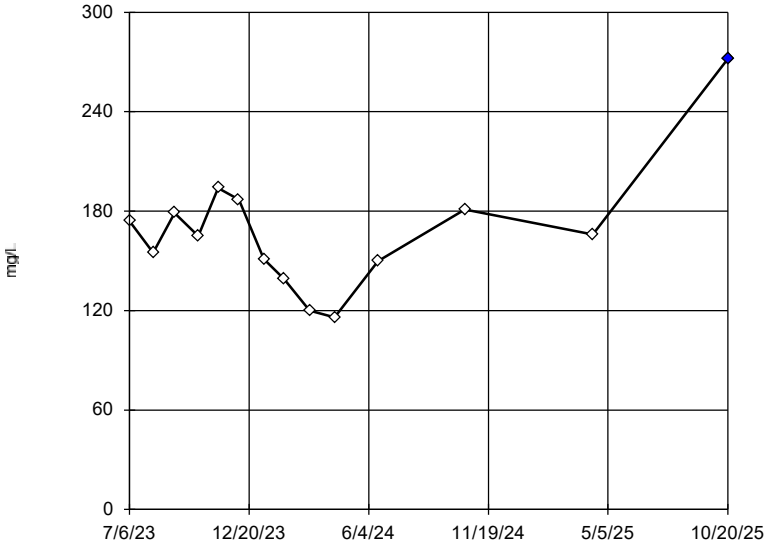
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.982
Critical = 0.928
The distribution was found to be normally distributed.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Dixon's Outlier Test

MW-121



n = 14

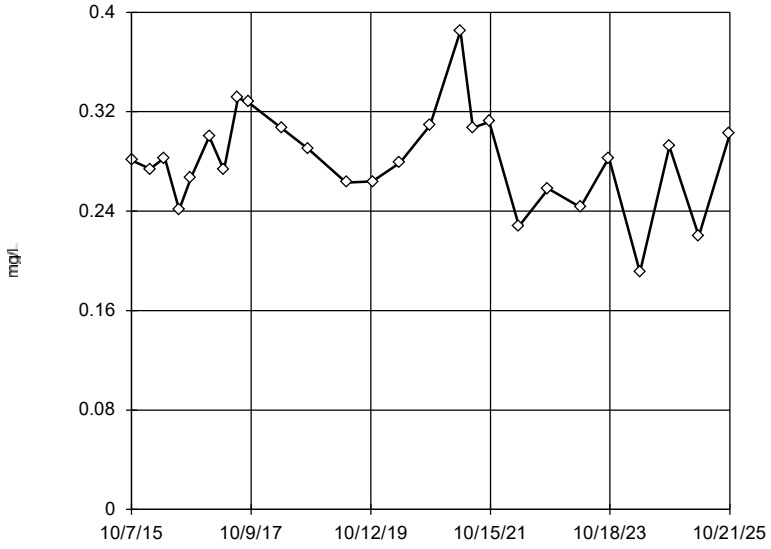
Statistical outlier is drawn as solid.
Testing for 1 high outlier.
Mean = 167.8.
Std. Dev. = 38.05.
272 (B): c = 0.6391
tabl = 0.546.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.95
Critical = 0.889
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Dissolved Solids Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Rosner's Test)

MW-101



n = 26

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.2812, std. dev. 0.03938, critical Tn 2.681

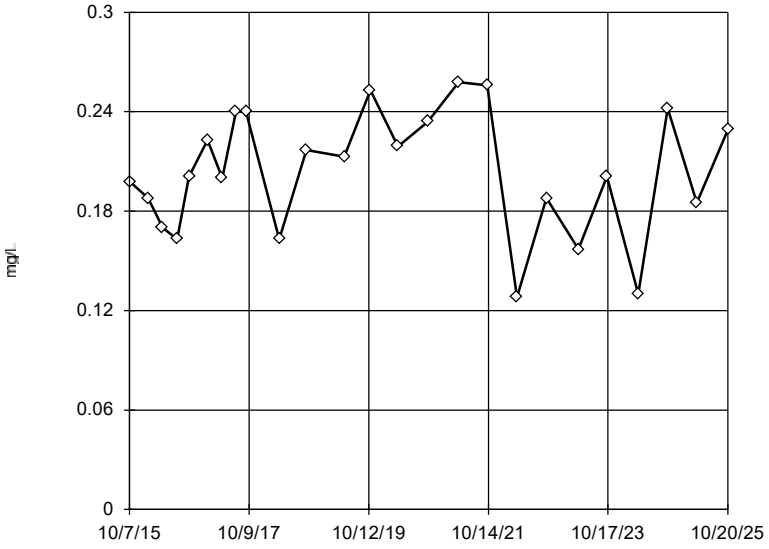
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9774
Critical = 0.933
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-103



n = 25

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.2038, std. dev. 0.03727, critical Tn 2.663

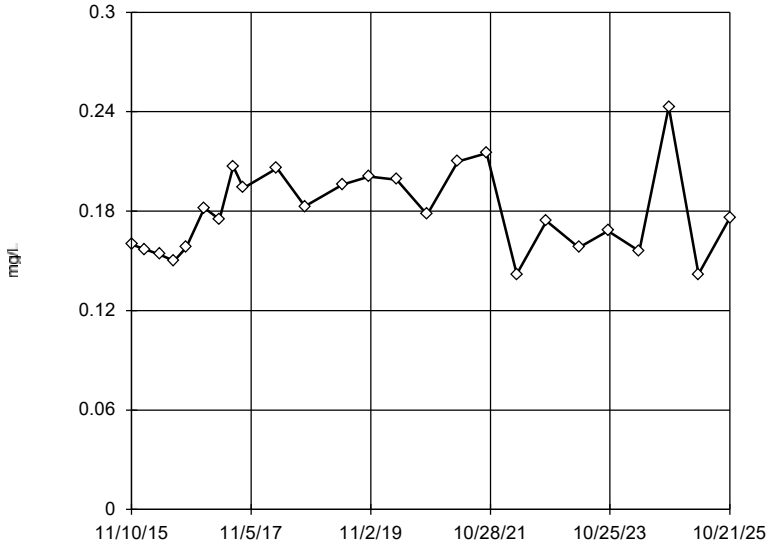
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9543
Critical = 0.931
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-102



n = 25

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.1794, std. dev. 0.02575, critical Tn 2.663

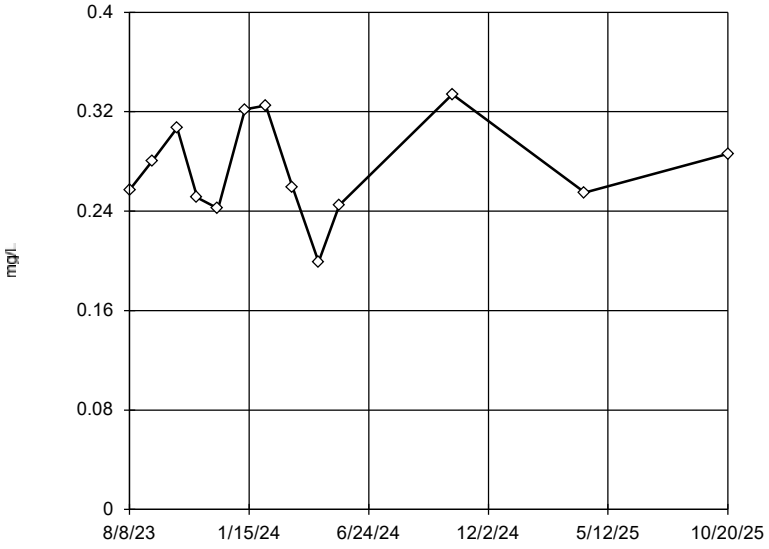
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9536
Critical = 0.931
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-104



n = 13

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.274, std. dev. 0.03944, critical Tn 2.331

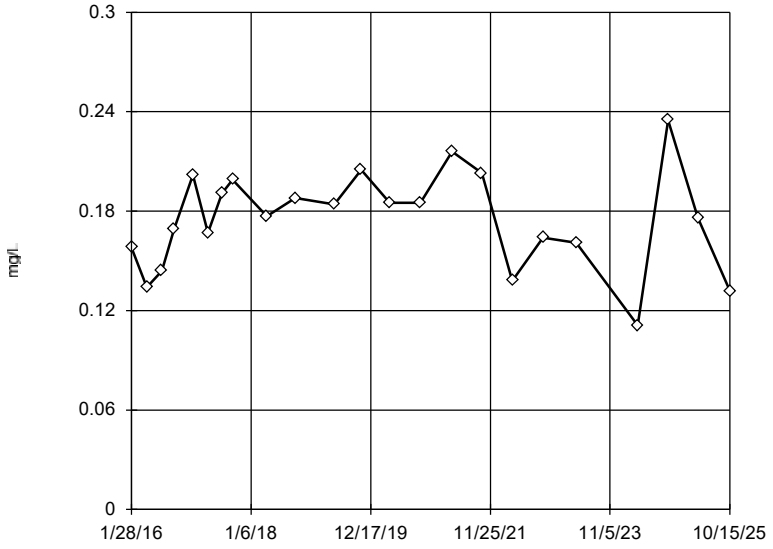
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9436
Critical = 0.889
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-108 (bg)



n = 23

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.175, std. dev. 0.02988, critical Tn 2.624

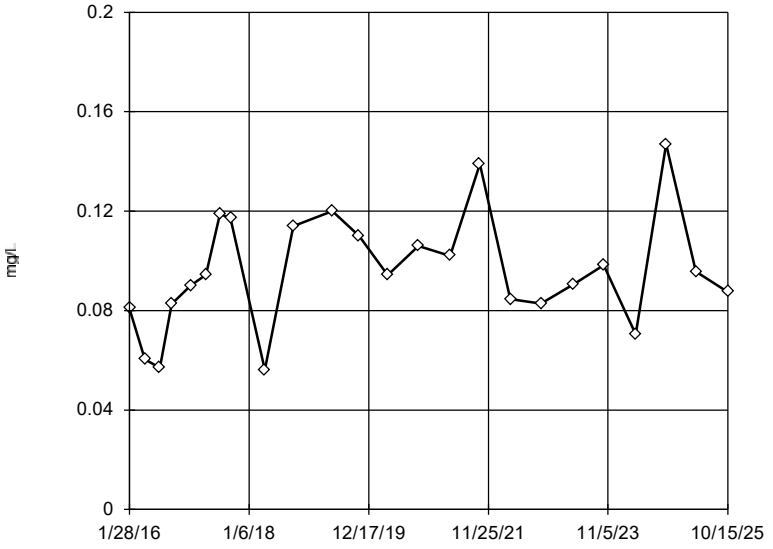
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9856
Critical = 0.928
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-113 (bg)



n = 24

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.09583, std. dev. 0.02335, critical Tn 2.644

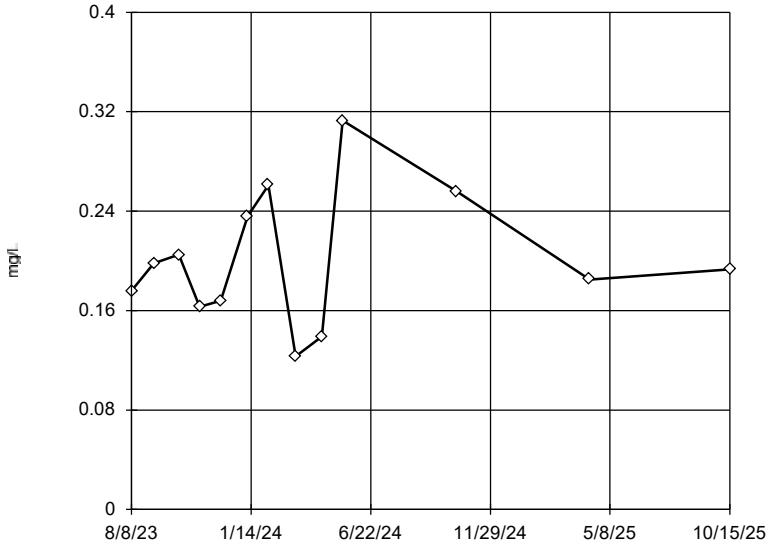
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9713
Critical = 0.93
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-110



n = 13

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.2012, std. dev. 0.05309, critical Tn 2.331

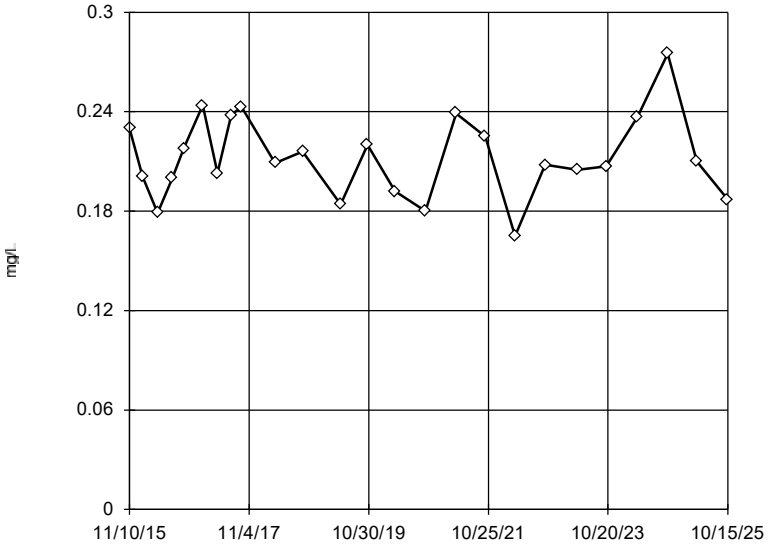
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9612
Critical = 0.889
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-115 (bg)



n = 25

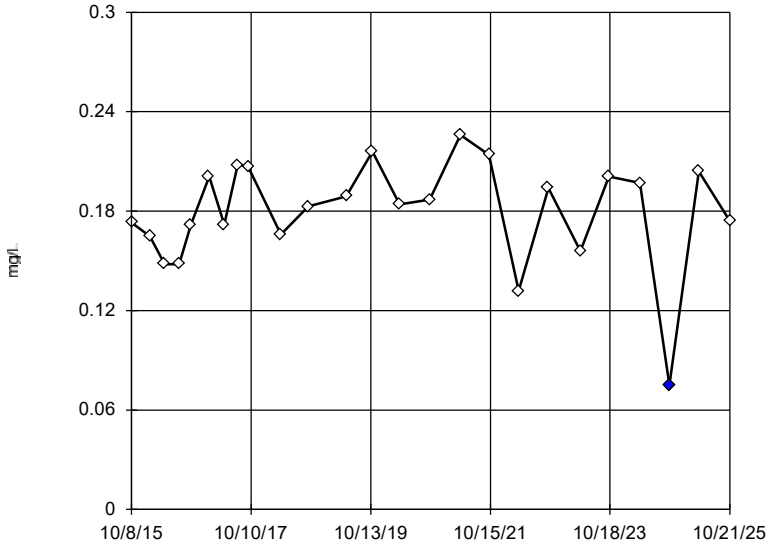
Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.2126, std. dev. 0.02514, critical Tn 2.663

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.98
Critical = 0.931
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Rosner's Outlier Test

MW-116



n = 25

Statistical outlier is drawn as solid.

k = 1
r = 3.259
Tabulated value = 2.84
Alpha = 0.01

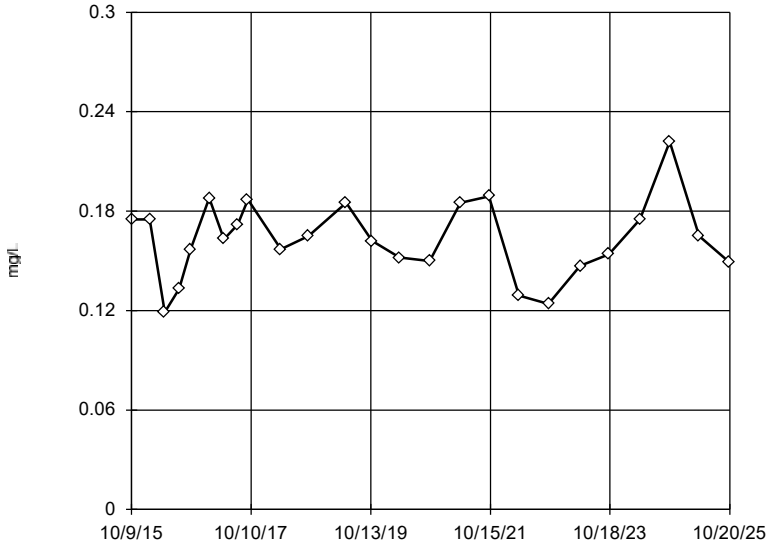
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9784
Critical = 0.93
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-118



n = 25

Rosner's will not be run. No suspect values identified or unable to establish suspect values.
Mean 0.1632, std. dev. 0.0235, critical Tn 2.663

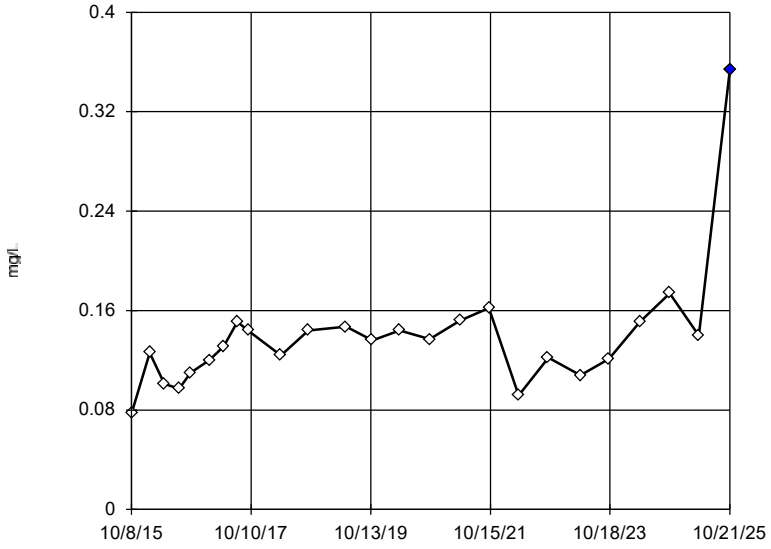
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9717
Critical = 0.931
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Rosner's Outlier Test

MW-117



n = 25

Statistical outlier is drawn as solid.

k = 1
r = 4.269
Tabulated value = 2.84
Alpha = 0.01

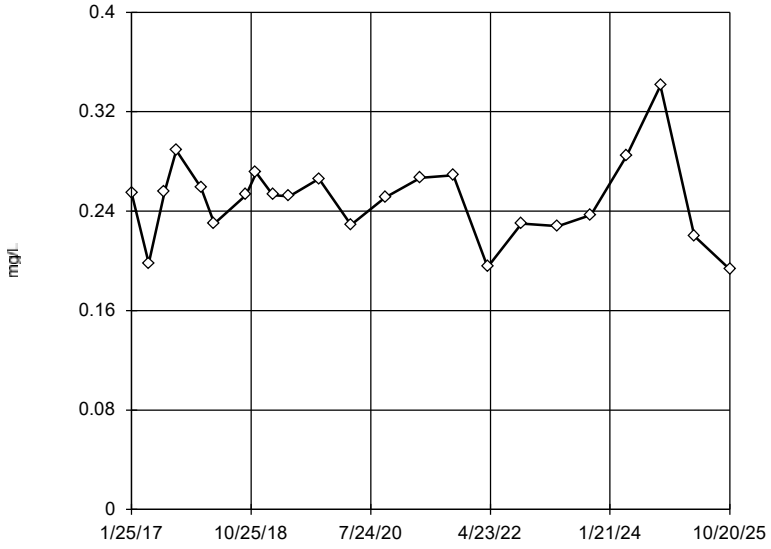
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9774
Critical = 0.93
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-119



n = 23

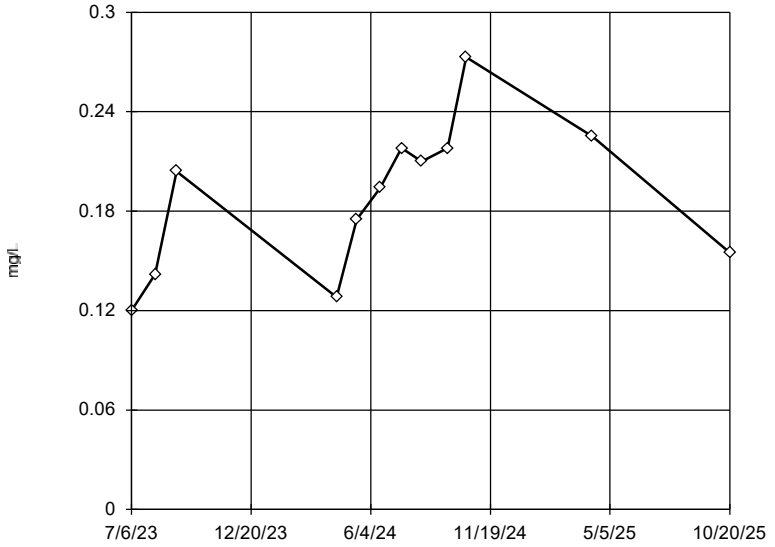
Rosner's will not be run. No suspect values identified or unable to establish suspect values.
Mean 0.249, std. dev. 0.03323, critical Tn 2.624

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9431
Critical = 0.928
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Dixon's Test)

MW-120



n = 12

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.1885, std. dev. 0.04549, critical Tn 2.285

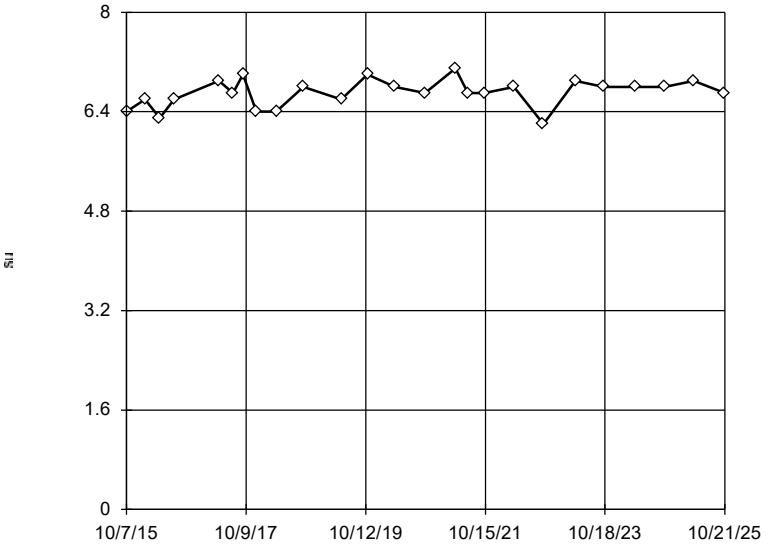
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9541
Critical = 0.883
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-101



n = 25

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 6.704, std. dev. 0.2263, critical Tn 2.663

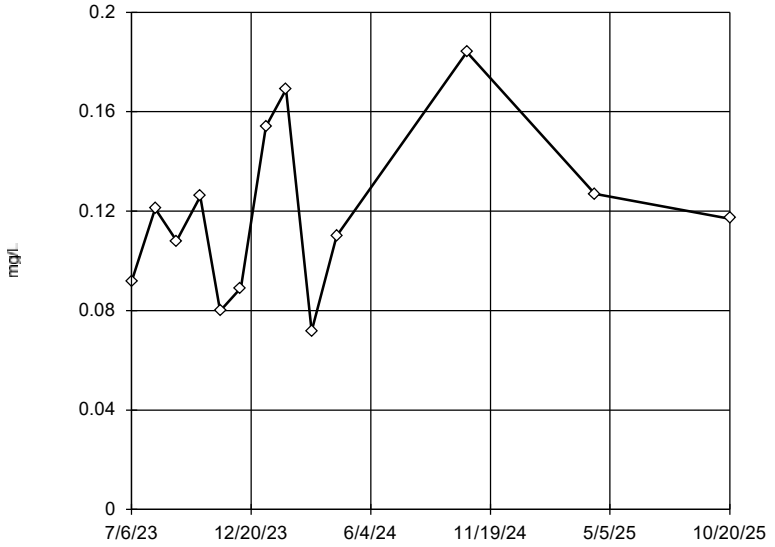
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9478
Critical = 0.931
The distribution was found to be normally distributed.

Constituent: pH Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-121



n = 13

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.1191, std. dev. 0.03378, critical Tn 2.331

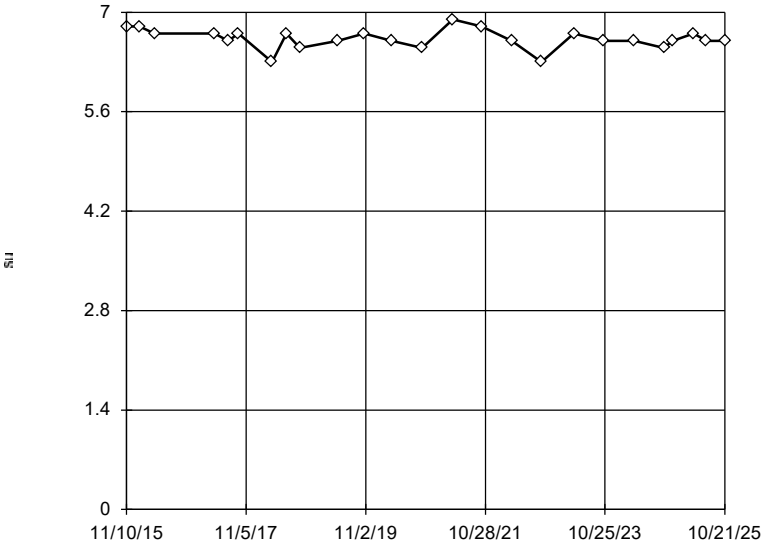
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9509
Critical = 0.889
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-102



n = 25

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

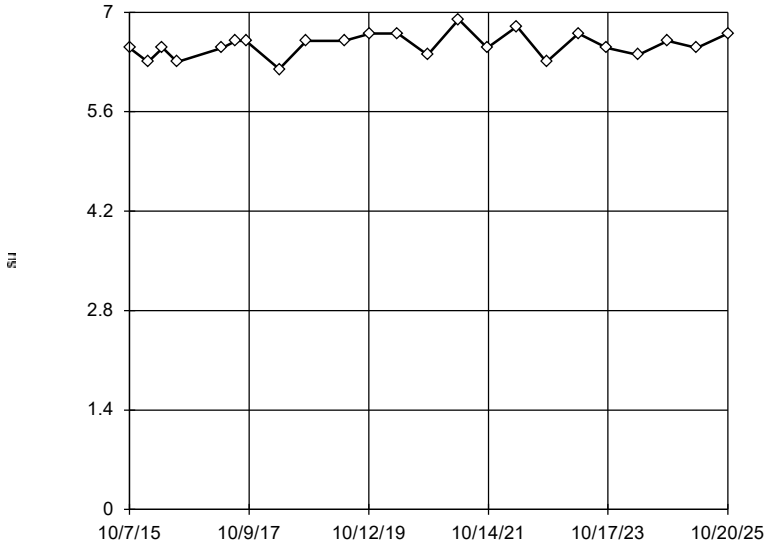
Data were x^6 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 6.962, low cutoff = 6.244, based on IQR multiplier of 3.

Constituent: pH Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Rosner's Test)

MW-103



n = 23

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 6.539, std. dev. 0.1725, critical Tn 2.624

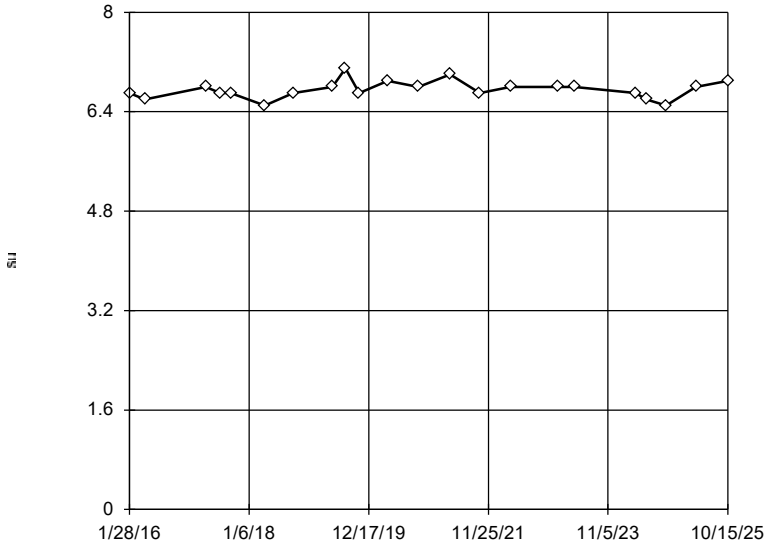
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9667
Critical = 0.928
The distribution was found to be normally distributed.

Constituent: pH Analysis Run 1/7/2026 3:20 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-108 (bg)



n = 22

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 6.755, std. dev. 0.1438, critical Tn 2.603

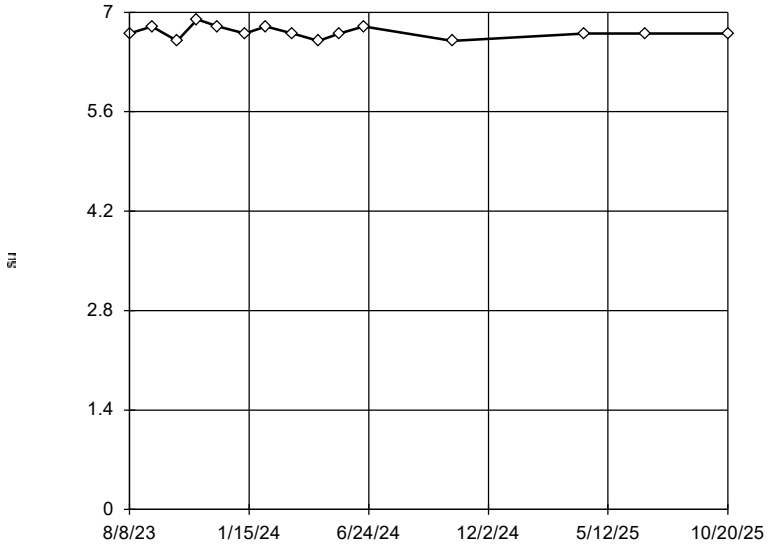
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9358
Critical = 0.926
The distribution was found to be normally distributed.

Constituent: pH Analysis Run 1/7/2026 3:21 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-104



n = 15

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

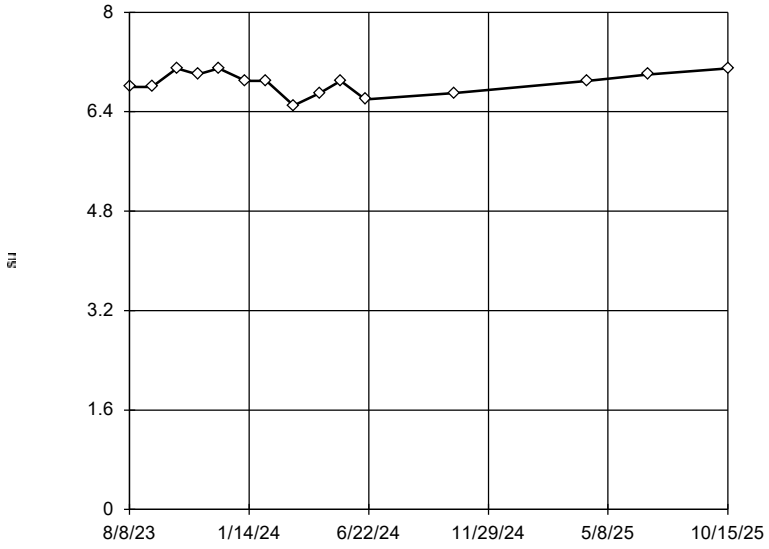
High cutoff = 7.109, low cutoff = 6.409, based on IQR multiplier of 3.

Constituent: pH Analysis Run 1/7/2026 3:21 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-110



n = 15

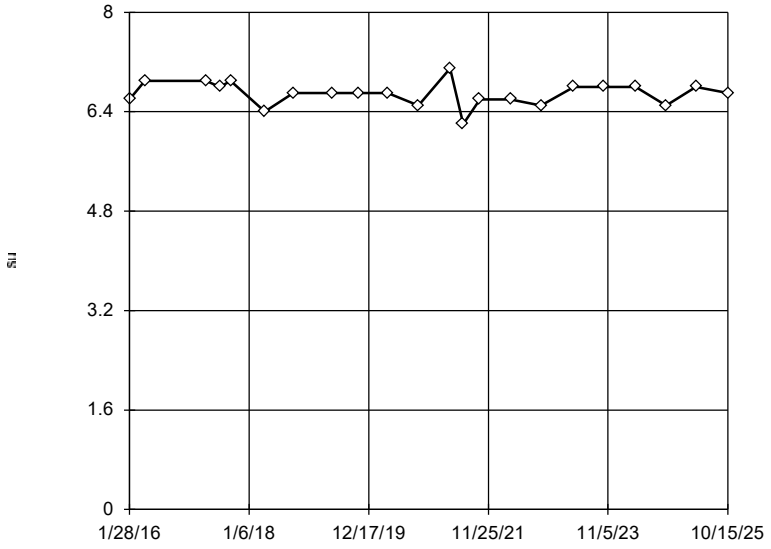
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 6.867, std. dev. 0.1839, critical Tn 2.409

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9379
Critical = 0.901
The distribution was found to be normally distributed.

Constituent: pH Analysis Run 1/7/2026 3:21 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Dixon's Test)

MW-113 (bg)



n = 22

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 6.691, std. dev. 0.1974, critical Tn 2.603

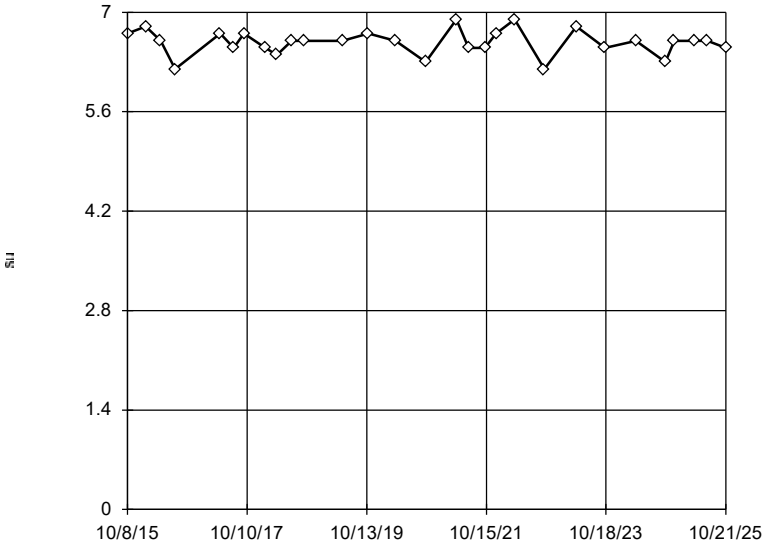
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9627
Critical = 0.926
The distribution was found to be normally distributed.

Constituent: pH Analysis Run 1/7/2026 3:21 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-116



n = 29

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 6.576, std. dev. 0.1786, critical Tn 2.73

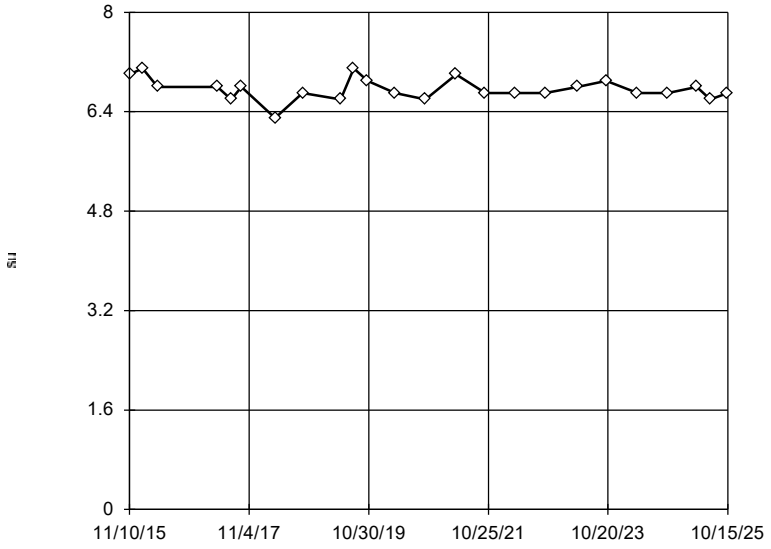
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9381
Critical = 0.937
The distribution was found to be normally distributed.

Constituent: pH Analysis Run 1/7/2026 3:21 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-115 (bg)



n = 24

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were square transformed to achieve best W statistic (graph shown in original units).

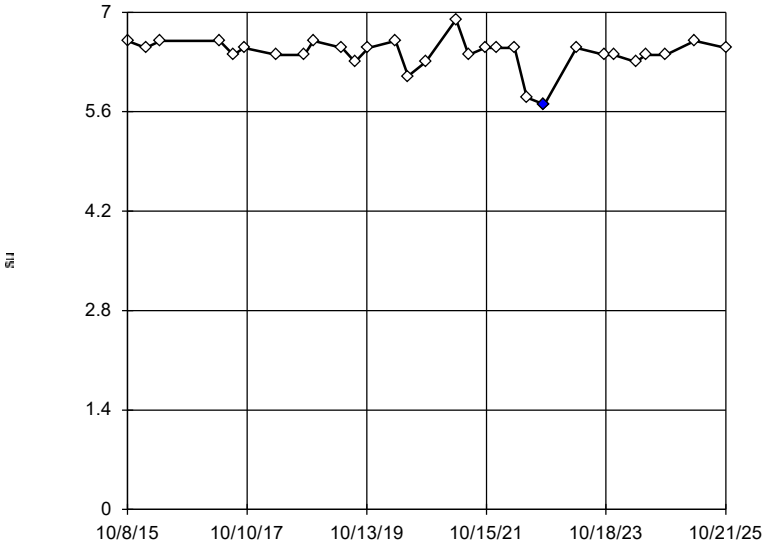
High cutoff = 7.282, low cutoff = 6.228, based on IQR multiplier of 3.

Constituent: pH Analysis Run 1/7/2026 3:21 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-117



n = 30

Outlier is drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

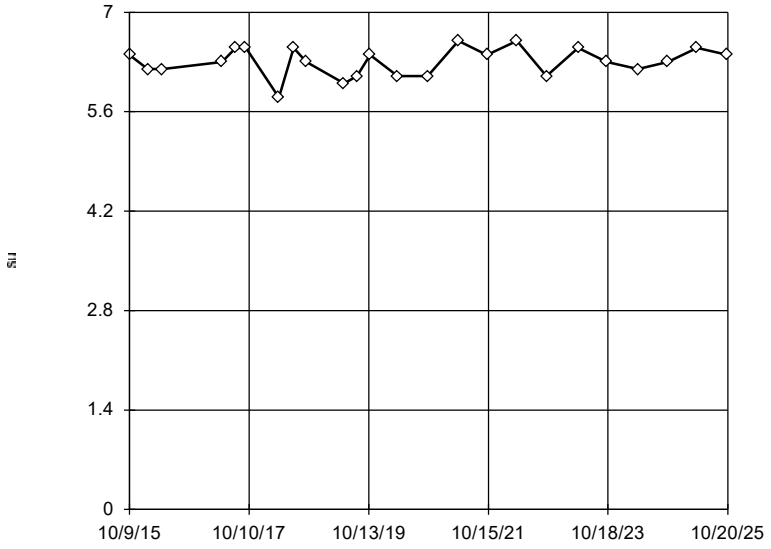
Data were x^6 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 6.922, low cutoff = 5.792, based on IQR multiplier of 3.

Constituent: pH Analysis Run 1/7/2026 3:21 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Rosner's Test)

MW-118



n = 24

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 6.304, std. dev. 0.2032, critical Tn 2.644

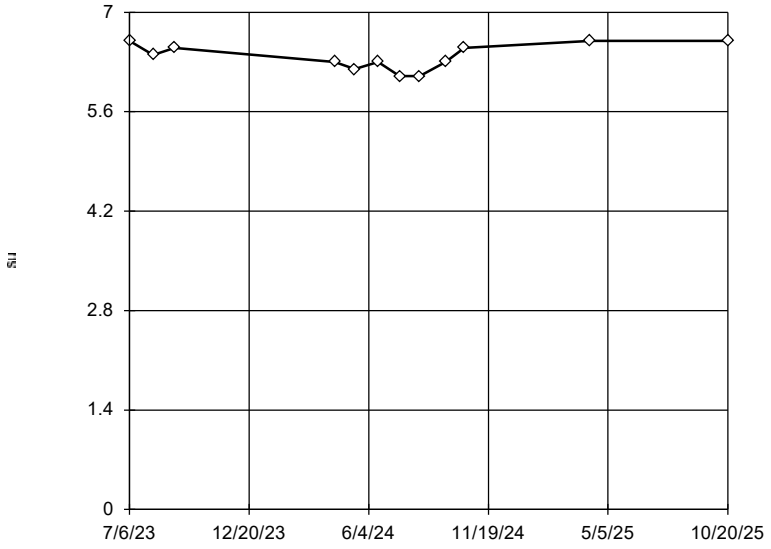
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9448
Critical = 0.93
The distribution was found to be normally distributed.

Constituent: pH Analysis Run 1/7/2026 3:21 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-120



n = 12

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 6.375, std. dev. 0.1865, critical Tn 2.285

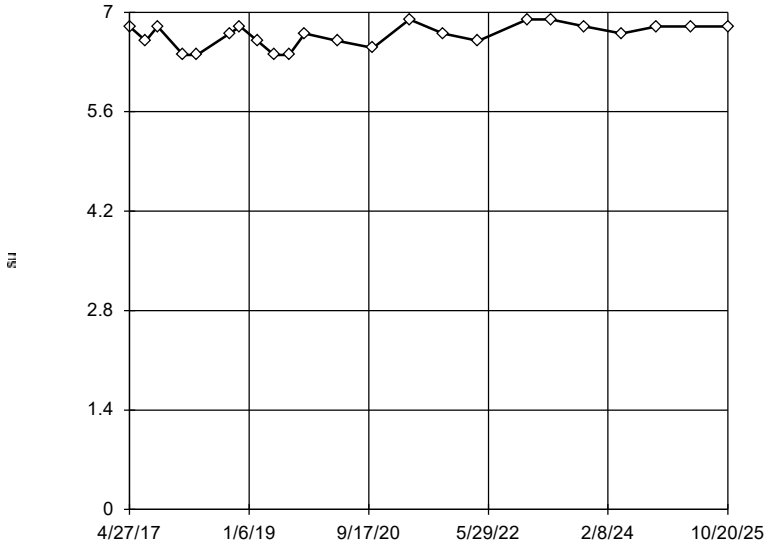
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.901
Critical = 0.883
The distribution was found to be normally distributed.

Constituent: pH Analysis Run 1/7/2026 3:21 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.03a Software licensed to Olsson. UG

Tukey's Outlier Screening

MW-119



n = 23

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

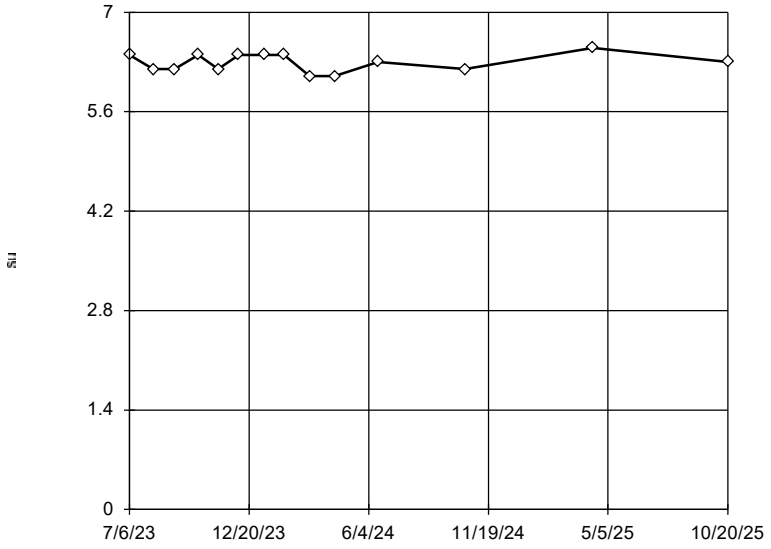
High cutoff = 7.269, low cutoff = 5.692, based on IQR multiplier of 3.

Constituent: pH Analysis Run 1/7/2026 3:21 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.03a Software licensed to Olsson. UG

EPA Screening (suspected outliers for Dixon's Test)

MW-121



n = 14

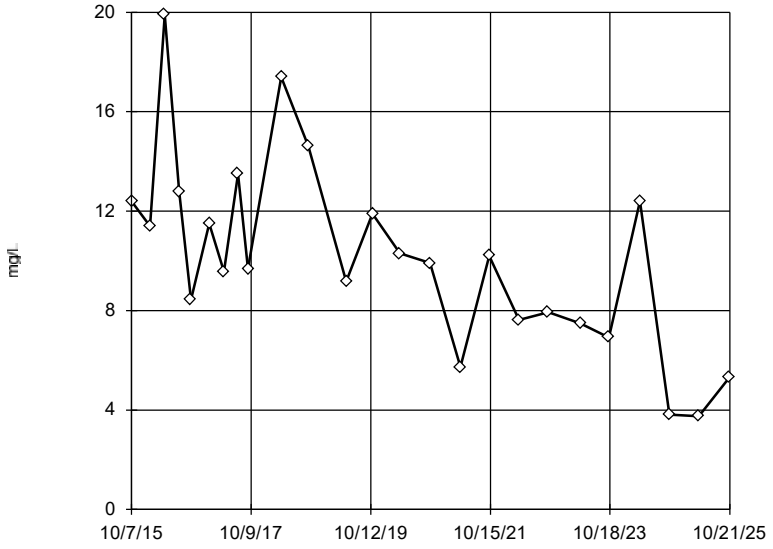
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 6.293, std. dev. 0.1269, critical Tn 2.371

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9007
Critical = 0.895
The distribution was found to be normally distributed.

Constituent: pH Analysis Run 1/7/2026 3:21 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Rosner's Test)

MW-101



n = 25

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 10.15, std. dev. 3.87, critical Tn 2.663

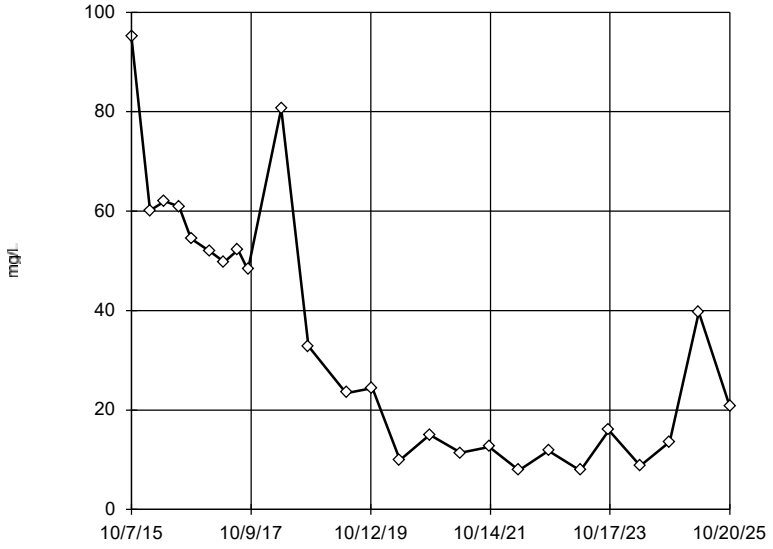
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9692
Critical = 0.931
The distribution was found to be normally distributed.

Constituent: Sulfate Analysis Run 1/7/2026 3:21 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-103



n = 25

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

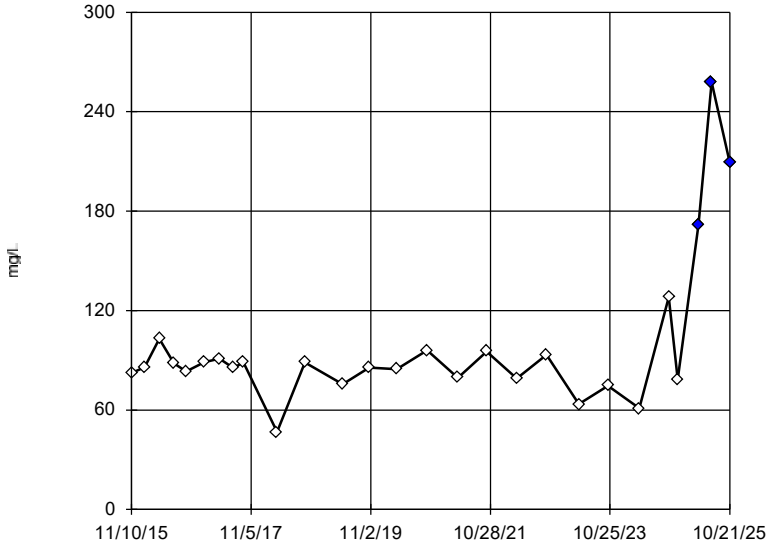
High cutoff = 541.7, low cutoff = -9.075, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 1/7/2026 3:21 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-102



n = 27

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

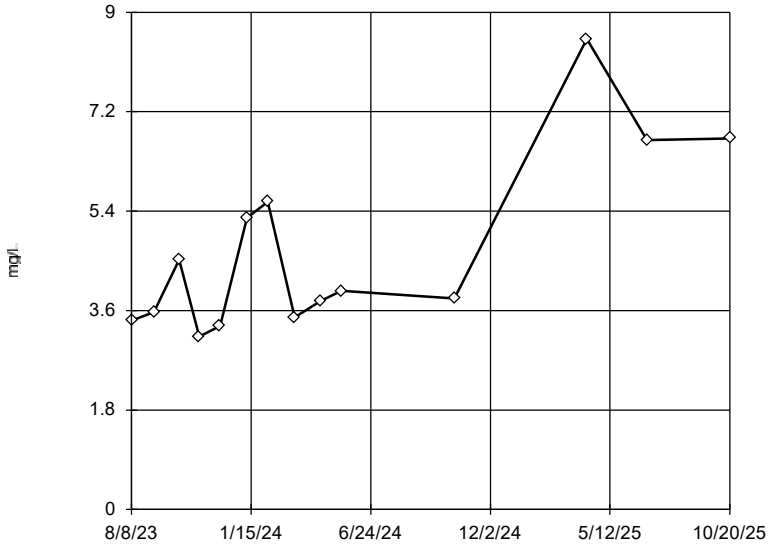
High cutoff = 167.3, low cutoff = 45, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 1/7/2026 3:21 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.03a Software licensed to Olsson. UG

Tukey's Outlier Screening

MW-104



n = 14

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

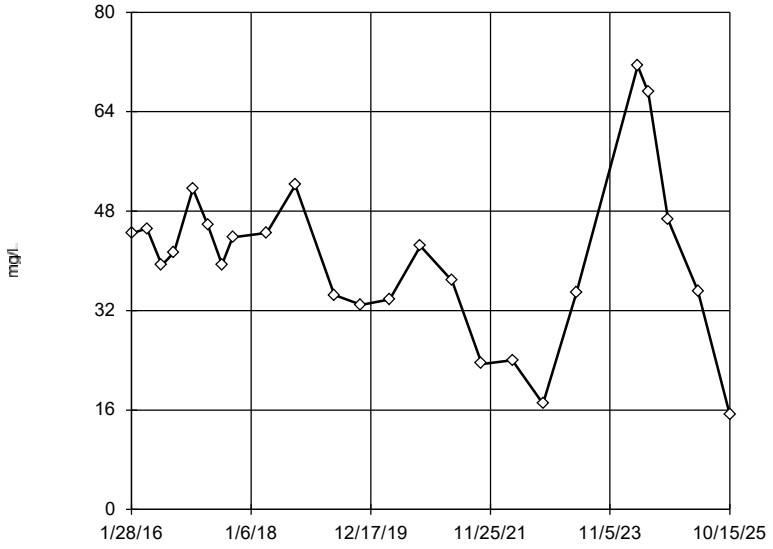
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 33.82, low cutoff = 0.6227, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 1/7/2026 3:21 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Rosner's Test)

MW-108 (bg)



n = 24

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 40.11, std. dev. 13.23, critical Tn 2.644

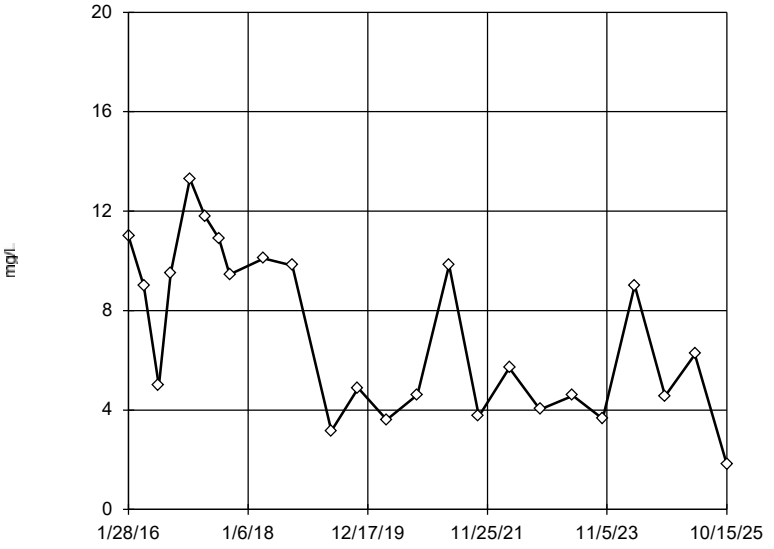
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9498
Critical = 0.93
The distribution was found to be normally distributed.

Constituent: Sulfate Analysis Run 1/7/2026 3:21 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-113 (bg)



n = 24

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

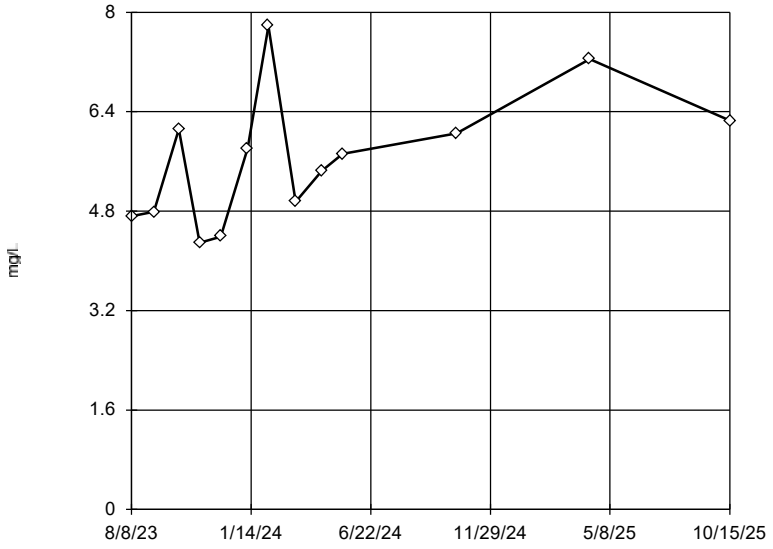
High cutoff = 50.38, low cutoff = 0.0003785, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 1/7/2026 3:21 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Dixon's Test)

MW-110



n = 13

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 5.66, std. dev. 1.059, critical Tn 2.331

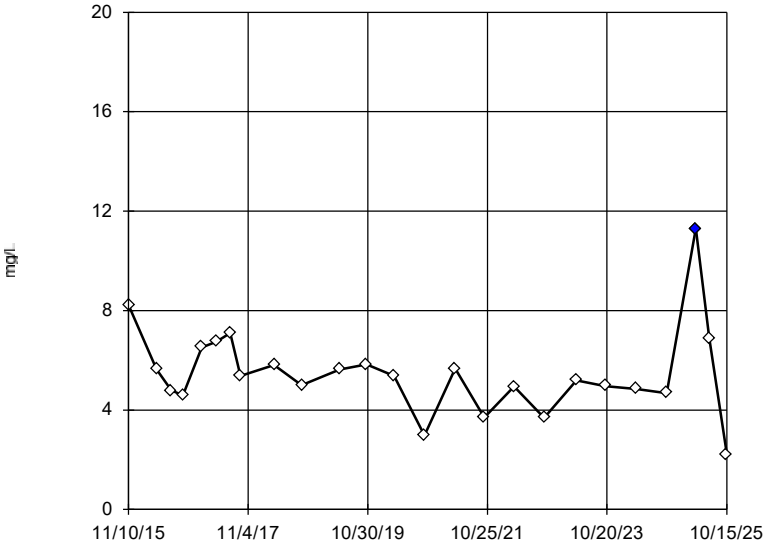
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9422
Critical = 0.889
The distribution was found to be normally distributed.

Constituent: Sulfate Analysis Run 1/7/2026 3:21 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.03a Software licensed to Olsson. UG

Rosner's Outlier Test

MW-115 (bg)



n = 25

Statistical outlier is drawn as solid.

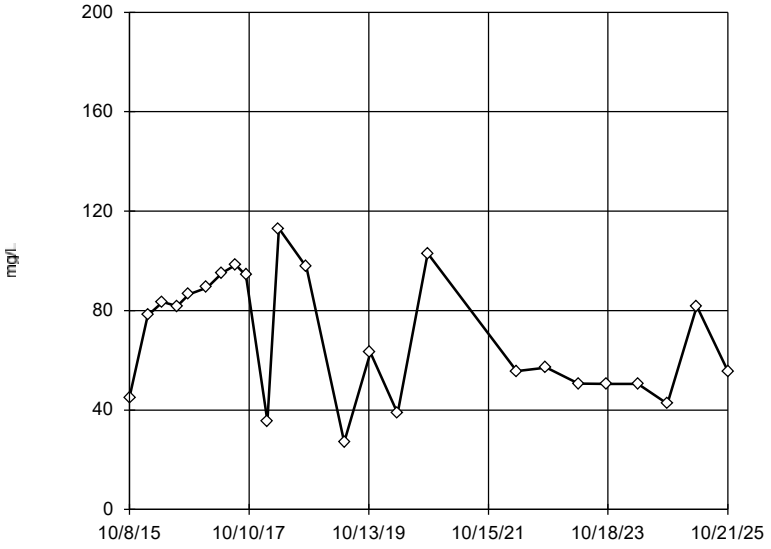
k = 2
r = 3.263
Tabulated value = 2.84
Alpha = 0.01

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9732
Critical = 0.93
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Sulfate Analysis Run 1/7/2026 3:21 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

EPA Screening (suspected outliers for Rosner's Test)

MW-116



n = 24

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 69.74, std. dev. 24.72, critical Tn 2.644

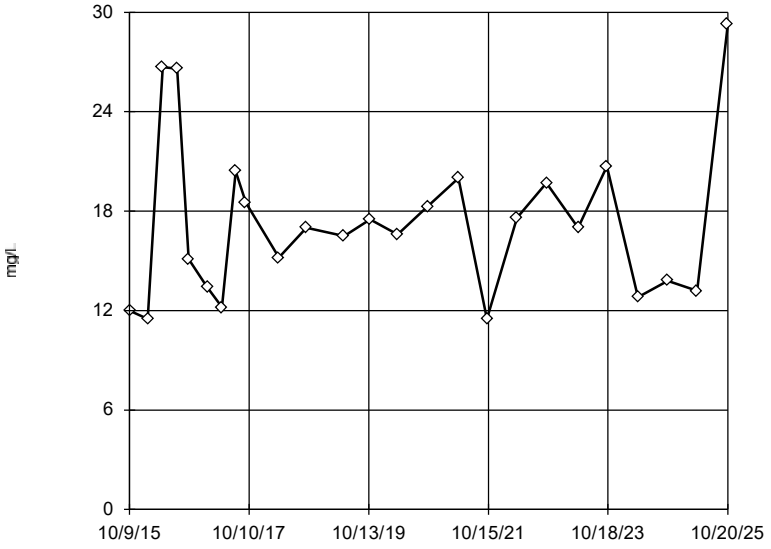
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9439
Critical = 0.93
The distribution was found to be normally distributed.

Constituent: Sulfate Analysis Run 1/7/2026 3:21 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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EPA Screening (suspected outliers for Rosner's Test)

MW-118



n = 25

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 17.32, std. dev. 4.796, critical Tn 2.663

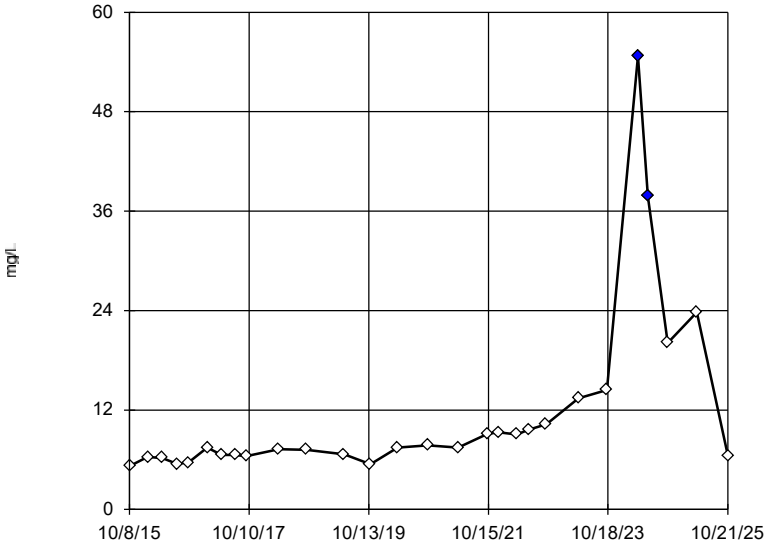
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9489
Critical = 0.931 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Sulfate Analysis Run 1/7/2026 3:21 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-117



n = 28

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

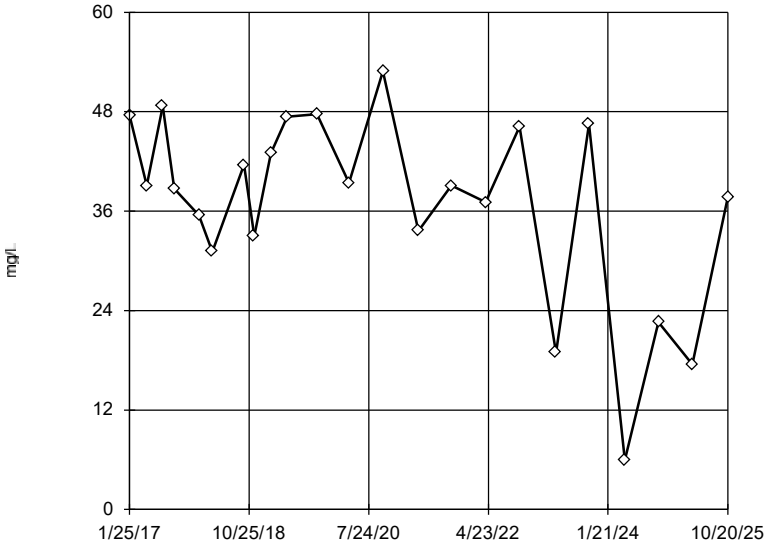
High cutoff = 36.41, low cutoff = 1.768, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 1/7/2026 3:21 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Tukey's Outlier Screening

MW-119



n = 23

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

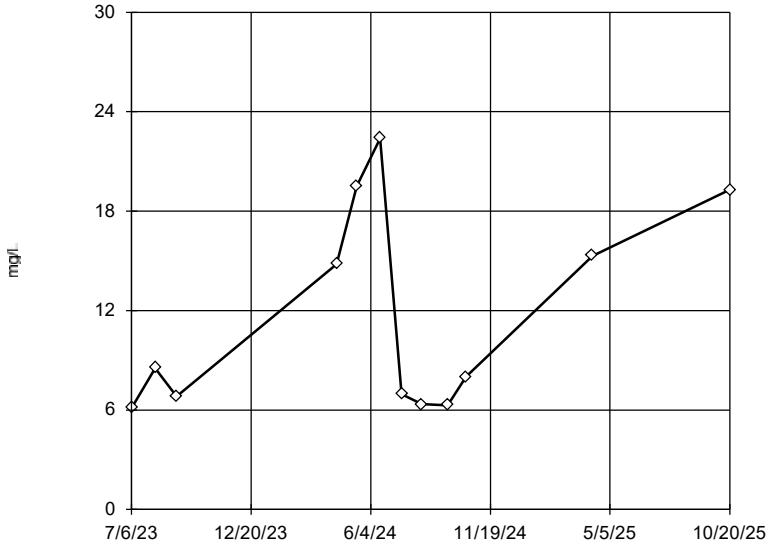
Data were square transformed to achieve best W statistic (graph shown in original units).

High cutoff = 73.36, low cutoff = -46.16, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 1/7/2026 3:21 PM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Tukey's Outlier Screening

MW-120



n = 12

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 306, low cutoff = 0.3696, based on IQR multiplier of 3.

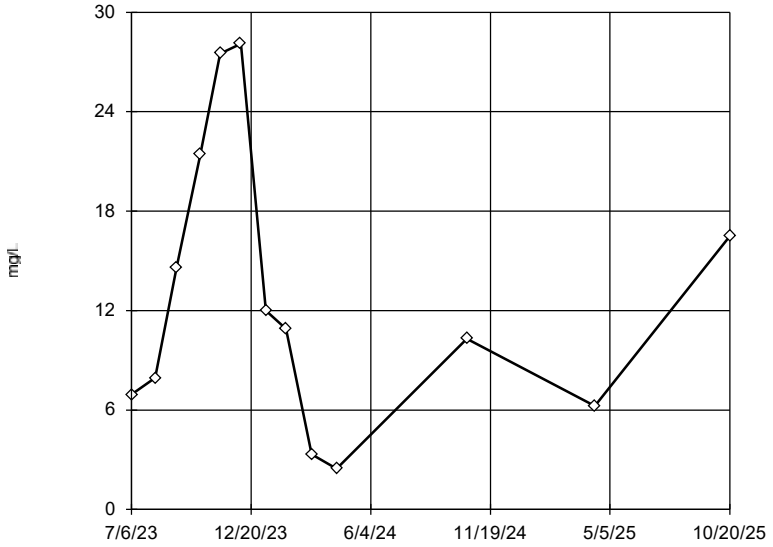
Constituent: Sulfate Analysis Run 1/7/2026 3:21 PM View: Distributional

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.03a Software licensed to Olsson. UG

EPA Screening (suspected outliers for Dixon's Test)

MW-121



n = 13

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 12.94, std. dev. 8.413, critical Tn 2.331

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9162
Critical = 0.889
The distribution was found to be normally distributed.

Constituent: Sulfate Analysis Run 1/7/2026 3:21 PM View: Distributional

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

APPENDIX G
STATISTICAL EVALUATION RESULTS

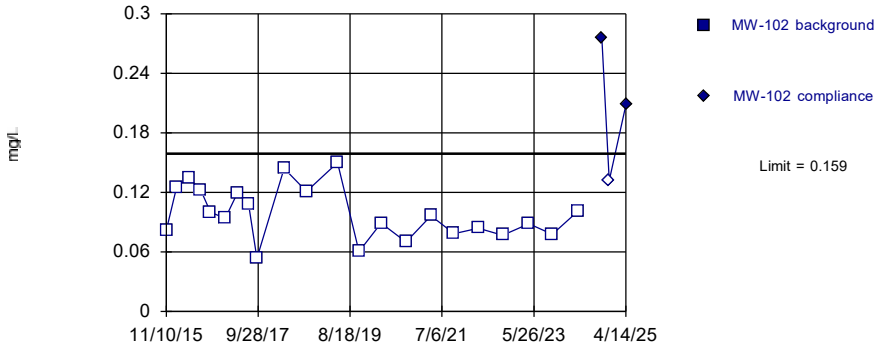
PREDICTION LIMITS
FIRST HALF 2025 MONITORING EVENT

Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Parametric



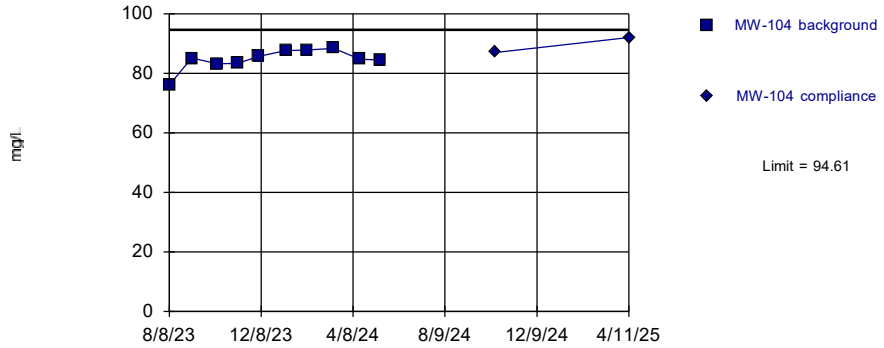
Background Data Summary: Mean=0.09891, Std. Dev.=0.02645, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9701, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Boron Analysis Run 4/24/2025 12:47 PM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Within Limit

Prediction Limit

Intrawell Parametric



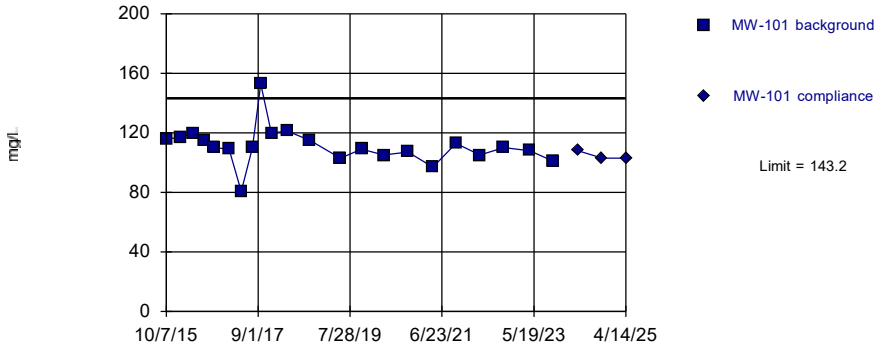
Background Data Summary: Mean=84.64, Std. Dev.=3.513, n=10. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8397, critical = 0.781. Kappa = 2.838 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Calcium Analysis Run 4/24/2025 12:47 PM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Within Limit

Prediction Limit

Intrawell Parametric



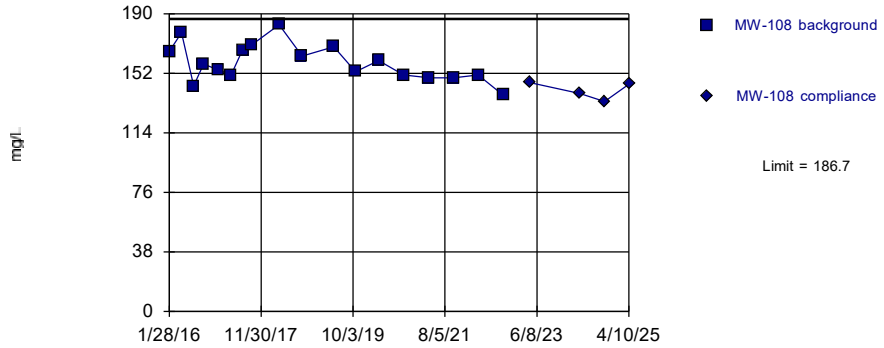
Background Data Summary (based on natural log transformation): Mean=4.704, Std. Dev.=0.1144, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8791, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Calcium Analysis Run 4/24/2025 12:47 PM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=158.6, Std. Dev.=11.89, n=18. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9668, critical = 0.858. Kappa = 2.363 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

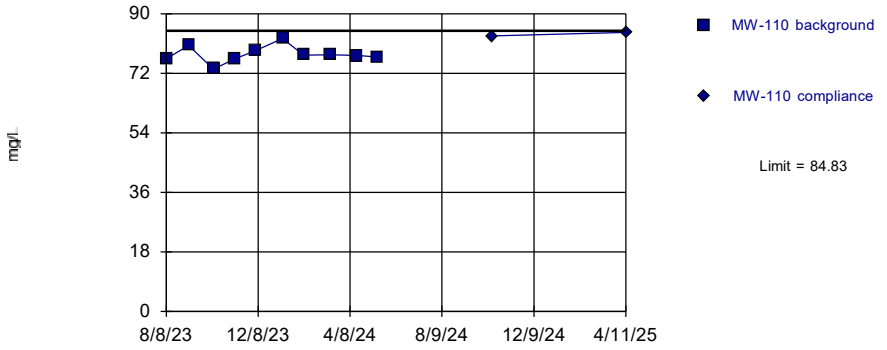
Constituent: Calcium Analysis Run 4/24/2025 12:47 PM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=77.73, Std. Dev.=2.504, n=10. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9416, critical = 0.781. Kappa = 2.838 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Calcium Analysis Run 4/29/2025 5:08 AM View: Prediction Limits

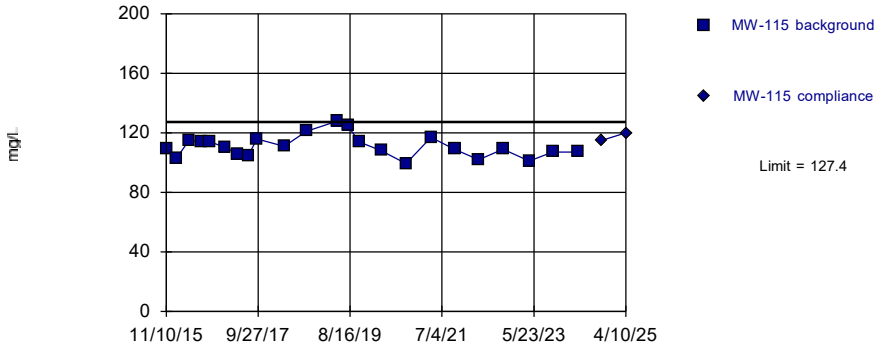
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=110.9, Std. Dev.=7.334, n=23. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.959, critical = 0.881. Kappa = 2.254 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Calcium Analysis Run 4/24/2025 12:47 PM View: Prediction Limits

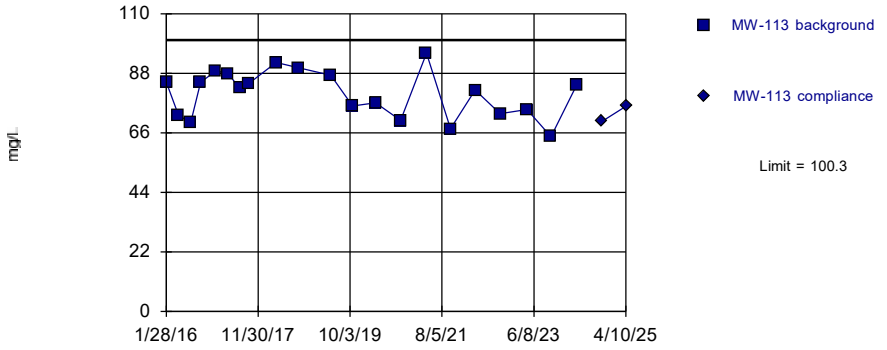
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=80.41, Std. Dev.=8.671, n=21. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9662, critical = 0.873. Kappa = 2.288 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Calcium Analysis Run 4/24/2025 12:47 PM View: Prediction Limits

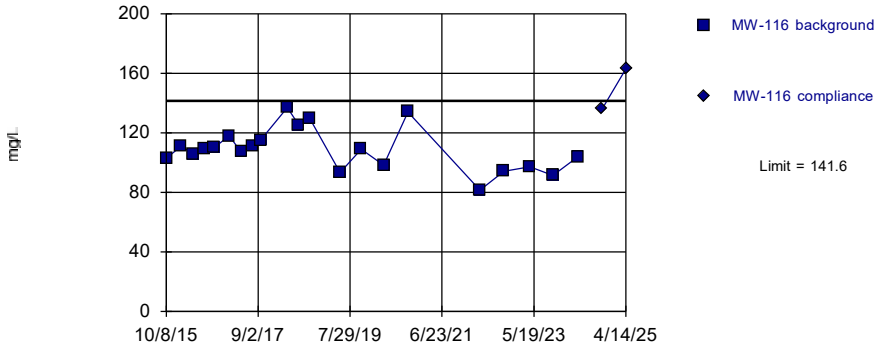
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=108.8, Std. Dev.=14.33, n=21. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9696, critical = 0.873. Kappa = 2.288 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

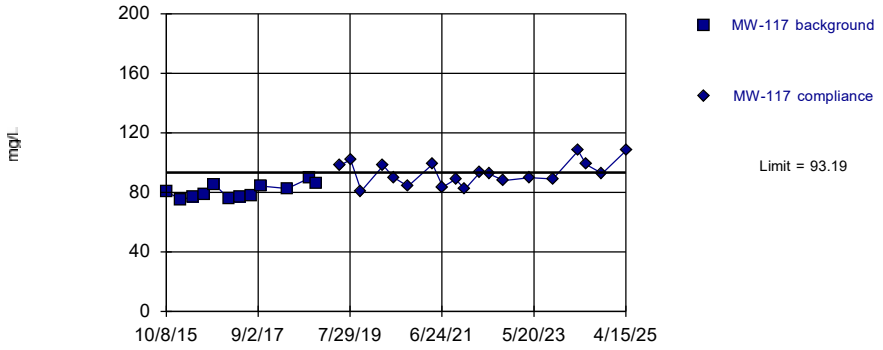
Constituent: Calcium Analysis Run 4/24/2025 12:47 PM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=80.69, Std. Dev.=4.731, n=12. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9147, critical = 0.805. Kappa = 2.643 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Calcium Analysis Run 4/24/2025 12:47 PM View: Prediction Limits

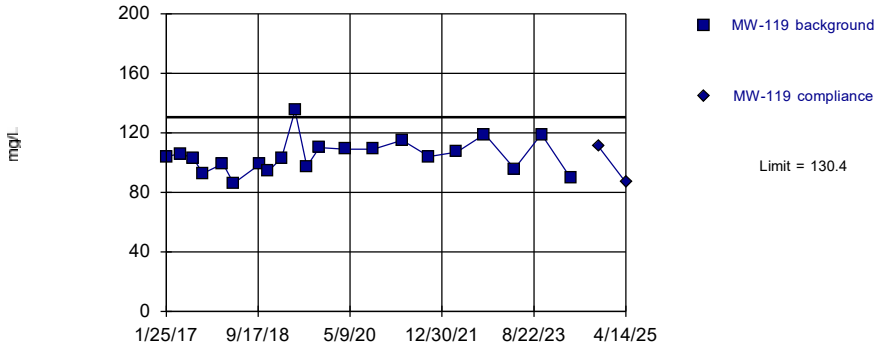
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=104.6, Std. Dev.=11.29, n=21. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9577, critical = 0.873. Kappa = 2.288 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Calcium Analysis Run 4/24/2025 12:47 PM View: Prediction Limits

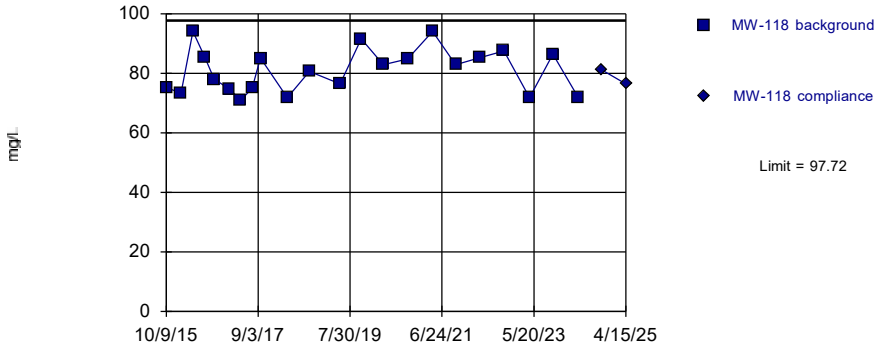
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=80.9, Std. Dev.=7.405, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9248, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Calcium Analysis Run 4/24/2025 12:47 PM View: Prediction Limits

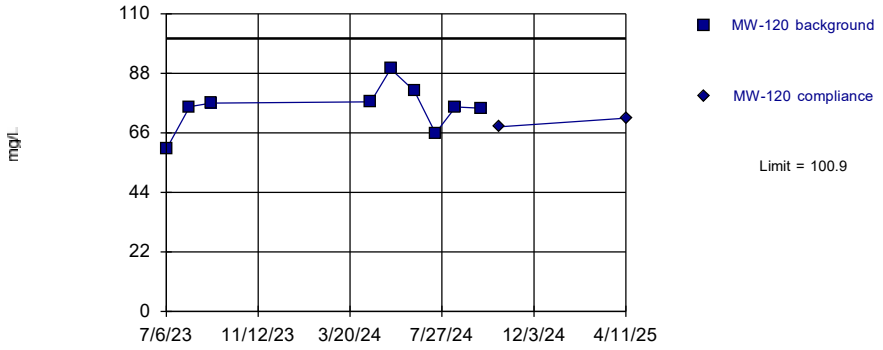
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=75.29, Std. Dev.=8.487, n=9. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.931, critical = 0.764. Kappa = 3.015 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Calcium Analysis Run 4/24/2025 12:47 PM View: Prediction Limits

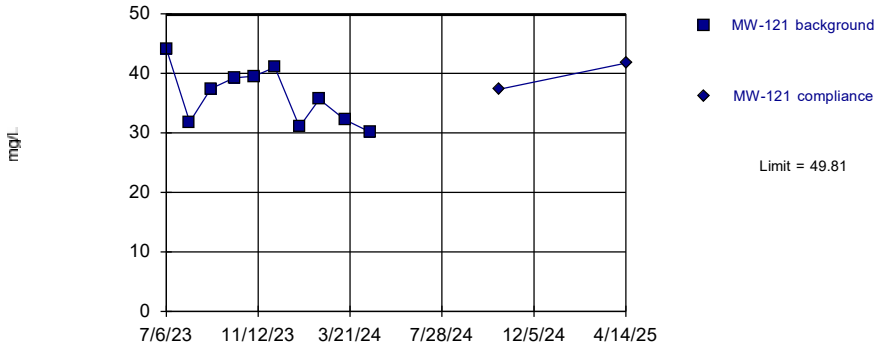
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=36.21, Std. Dev.=4.793, n=10. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9349, critical = 0.781. Kappa = 2.838 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Calcium Analysis Run 4/24/2025 12:48 PM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

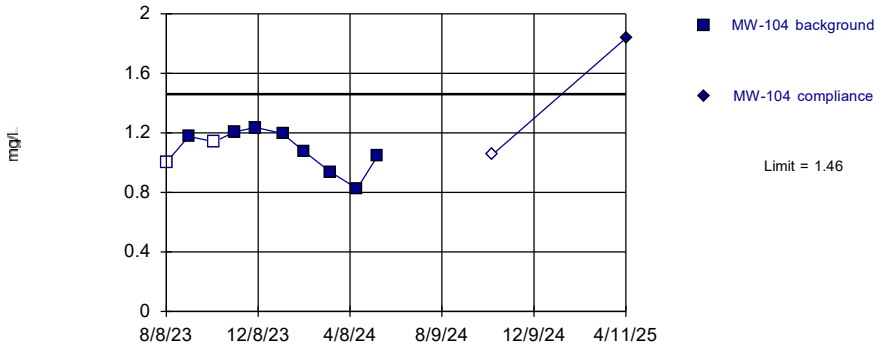
Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.084, Std. Dev.=0.1327, n=10. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9295, critical = 0.781. Kappa = 2.838 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/29/2025 5:08 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

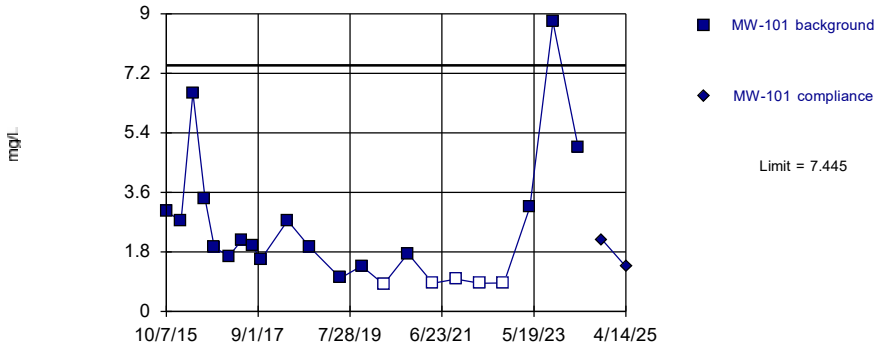
Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=1.491, Std. Dev.=0.545, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8804, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/24/2025 12:48 PM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

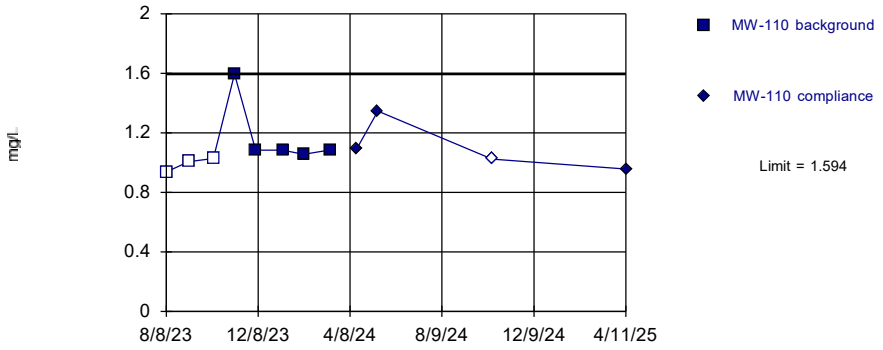
Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 8 background values. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2). Data were deseasonalized.

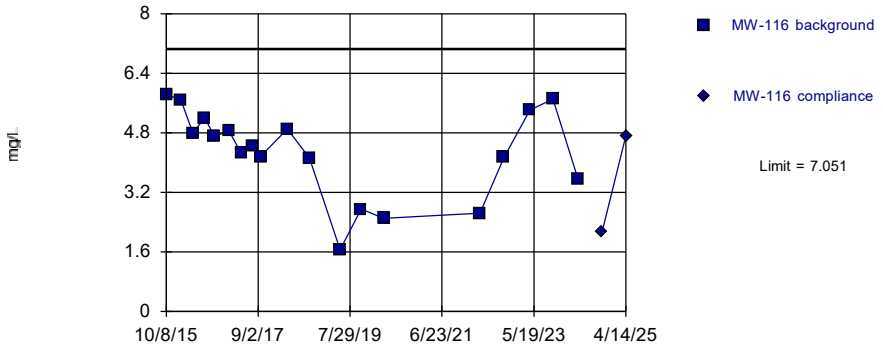
Constituent: Chloride Analysis Run 4/24/2025 12:48 PM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=4.279, Std. Dev.=1.188, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9304, critical = 0.863. Kappa = 2.334 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/24/2025 12:48 PM View: Prediction Limits

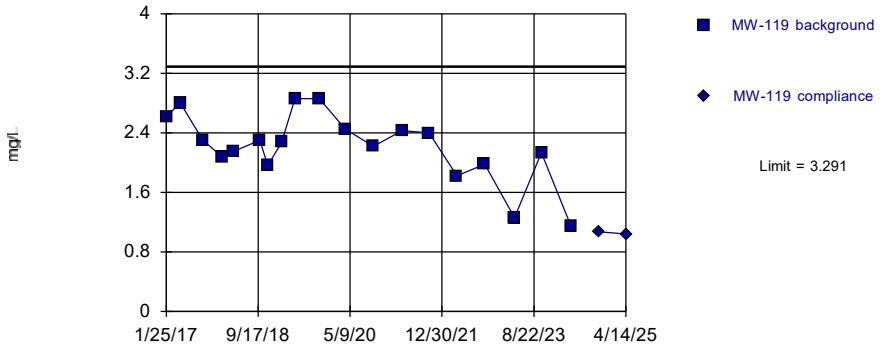
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.212, Std. Dev.=0.4623, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9246, critical = 0.863. Kappa = 2.334 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/24/2025 12:48 PM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

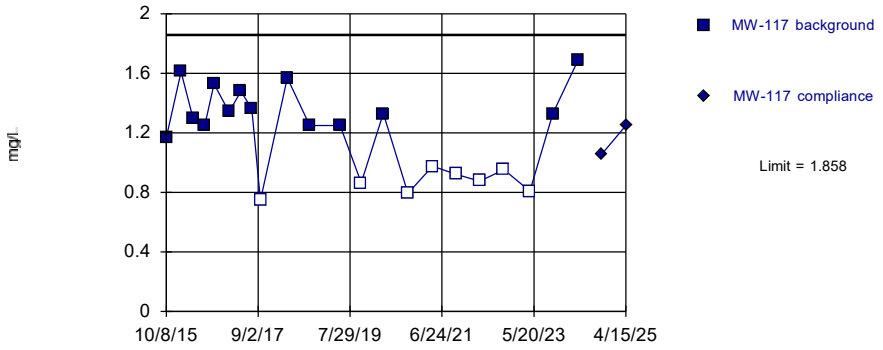
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Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.2, Std. Dev.=0.2897, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9385, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/24/2025 12:48 PM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

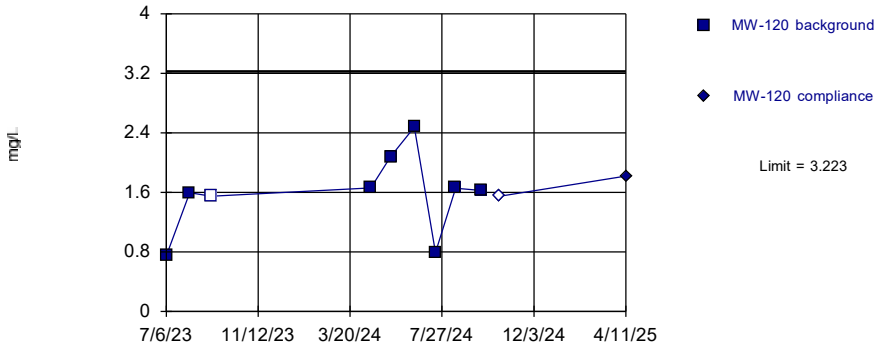
Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.575, Std. Dev.=0.5464, n=9. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8979, critical = 0.764. Kappa = 3.015 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/24/2025 12:48 PM View: Prediction Limits

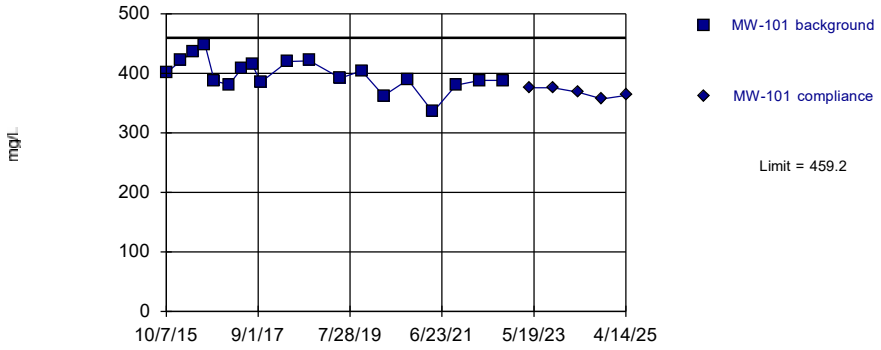
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=397.9, Std. Dev.=26.28, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9663, critical = 0.863. Kappa = 2.334 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Dissolved Solids Analysis Run 4/24/2025 12:48 PM View: Prediction Limits

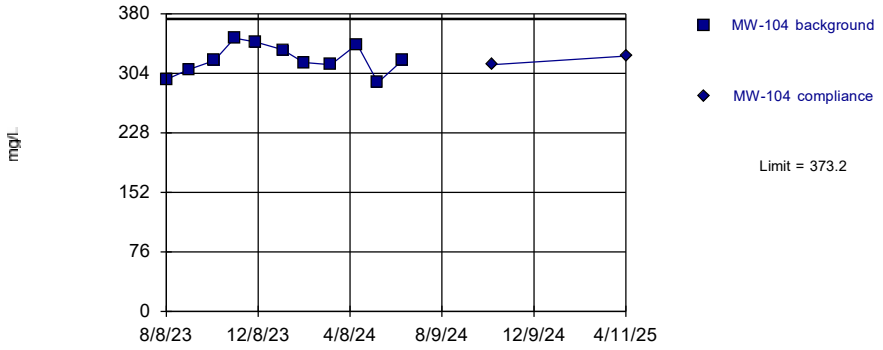
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=321.7, Std. Dev.=18.79, n=11. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9522, critical = 0.792. Kappa = 2.74 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Dissolved Solids Analysis Run 4/24/2025 12:48 PM View: Prediction Limits

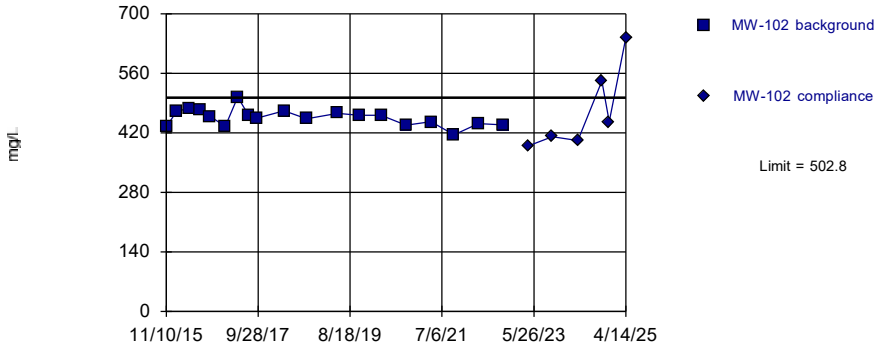
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=455.8, Std. Dev.=20.1, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.976, critical = 0.863. Kappa = 2.334 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Dissolved Solids Analysis Run 4/24/2025 12:48 PM View: Prediction Limits

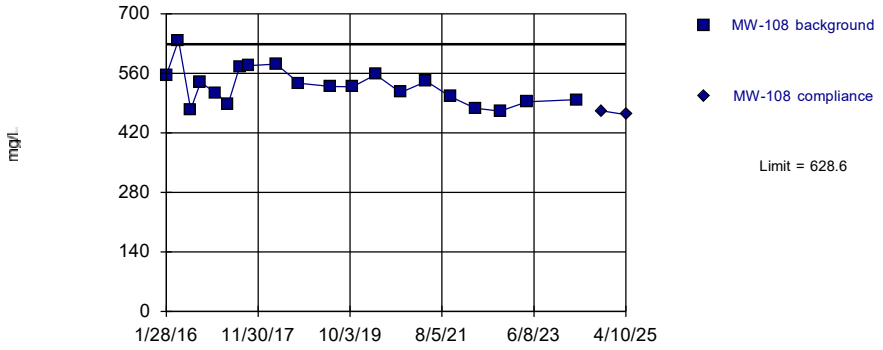
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=529.8, Std. Dev.=42.86, n=20. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9516, critical = 0.868. Kappa = 2.306 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

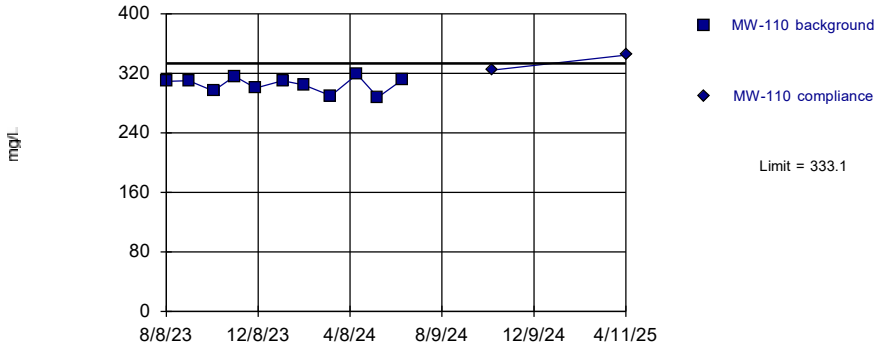
Constituent: Dissolved Solids Analysis Run 4/24/2025 12:48 PM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=304.8, Std. Dev.=10.32, n=11. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9301, critical = 0.792. Kappa = 2.74 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Dissolved Solids Analysis Run 4/24/2025 12:48 PM View: Prediction Limits

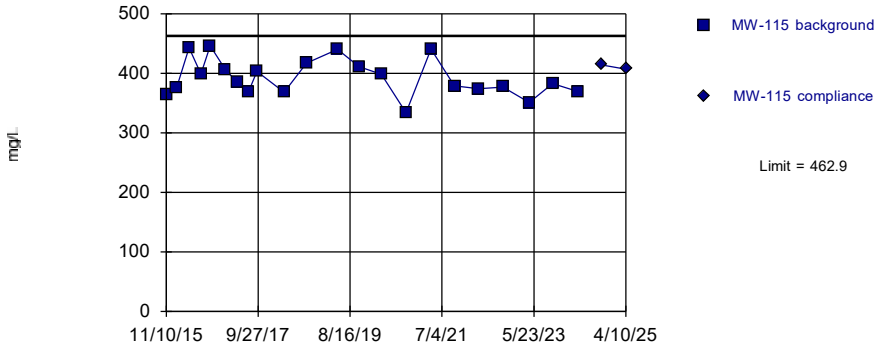
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=392.4, Std. Dev.=31.04, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9482, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Dissolved Solids Analysis Run 4/24/2025 12:48 PM View: Prediction Limits

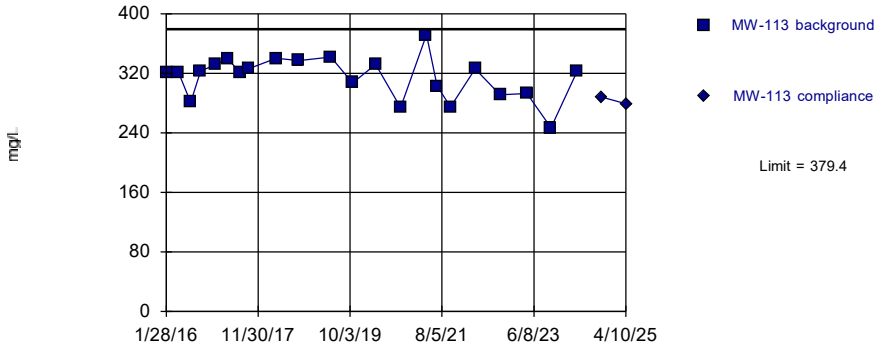
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=314.7, Std. Dev.=28.47, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9493, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Dissolved Solids Analysis Run 4/24/2025 12:48 PM View: Prediction Limits

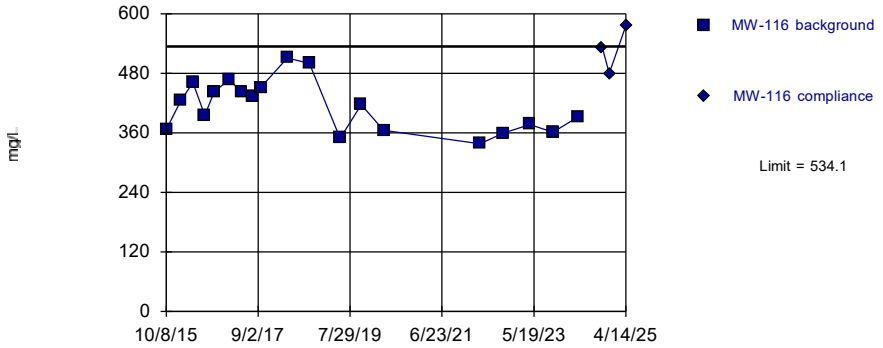
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=413.6, Std. Dev.=51.65, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9491, critical = 0.863. Kappa = 2.334 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Dissolved Solids Analysis Run 4/24/2025 12:48 PM View: Prediction Limits

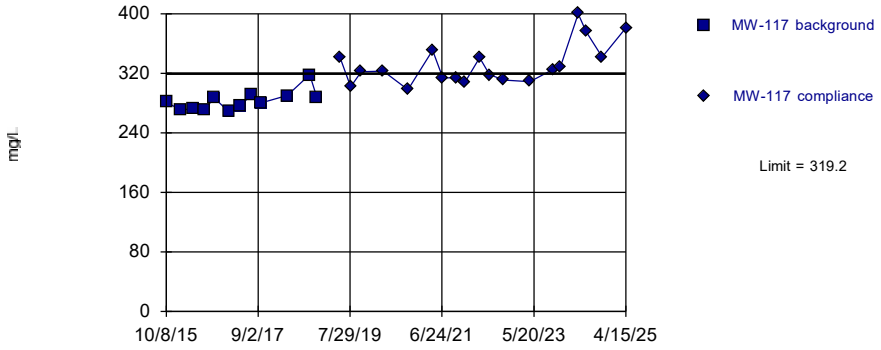
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=282.9, Std. Dev.=13.75, n=12. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.861, critical = 0.805. Kappa = 2.643 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Dissolved Solids Analysis Run 4/24/2025 12:48 PM View: Prediction Limits

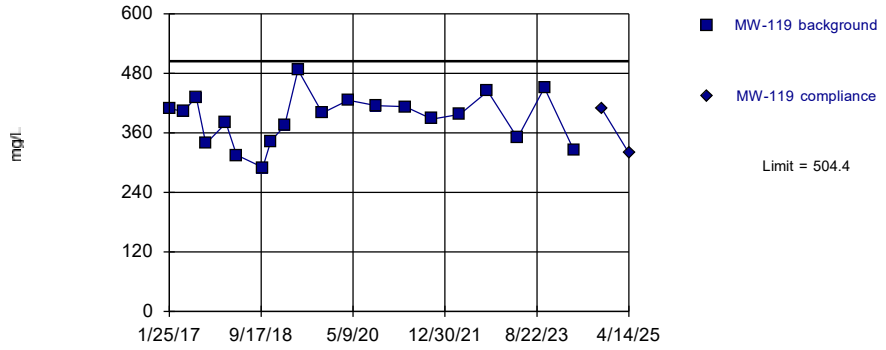
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=389, Std. Dev.=50.07, n=20. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.983, critical = 0.868. Kappa = 2.306 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Dissolved Solids Analysis Run 4/24/2025 12:48 PM View: Prediction Limits

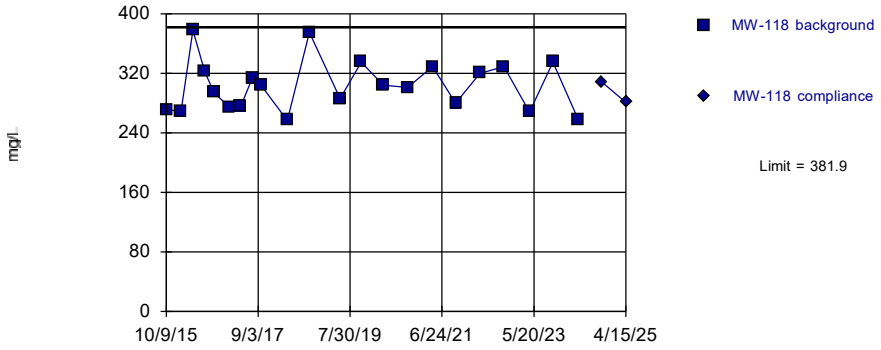
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=303.6, Std. Dev.=34.45, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9357, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Dissolved Solids Analysis Run 4/24/2025 12:48 PM View: Prediction Limits

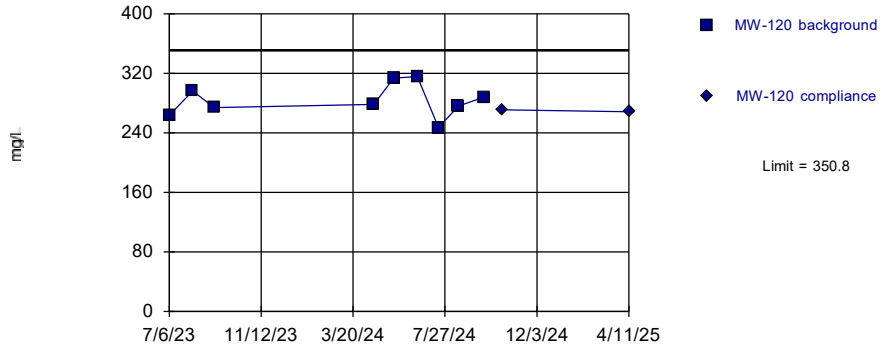
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=283.6, Std. Dev.=22.27, n=9. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9608, critical = 0.764. Kappa = 3.015 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Dissolved Solids Analysis Run 4/24/2025 12:48 PM View: Prediction Limits

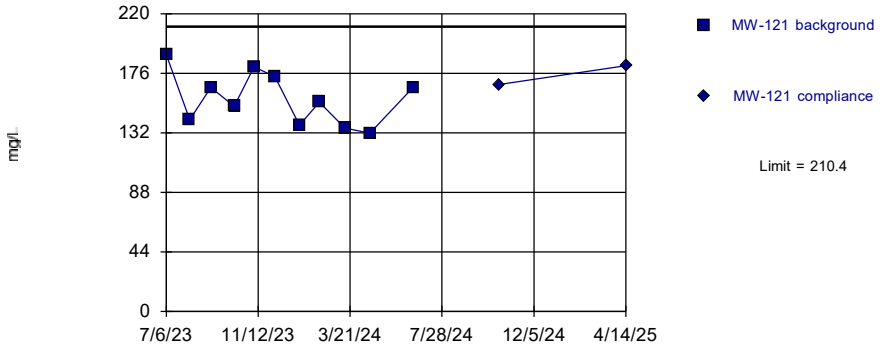
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=157.1, Std. Dev.=19.48, n=11. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9469, critical = 0.792. Kappa = 2.74 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

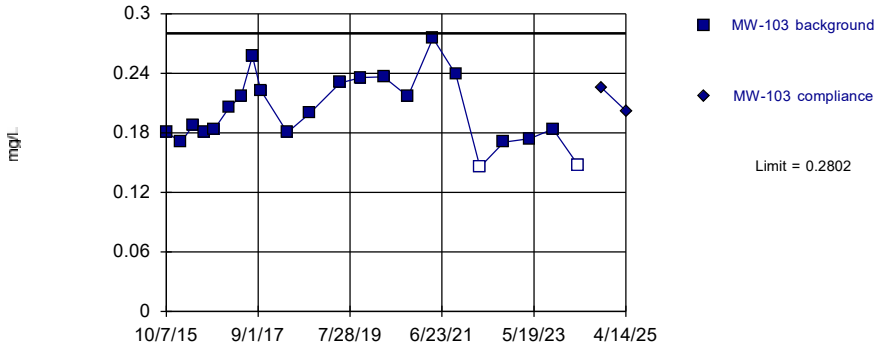
Constituent: Dissolved Solids Analysis Run 4/24/2025 12:48 PM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.2018, Std. Dev.=0.0345, n=22. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9607, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

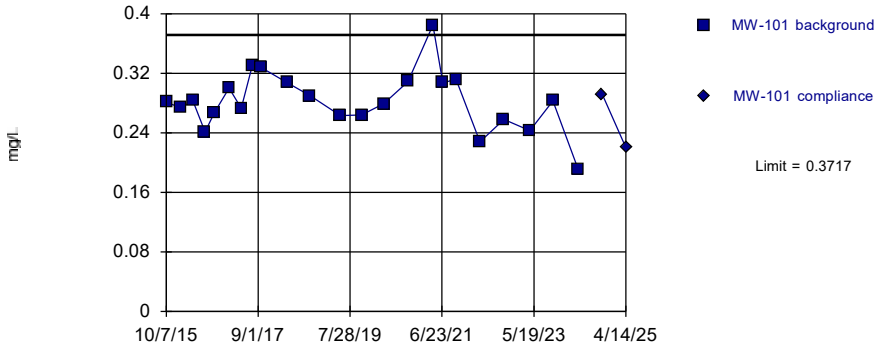
Constituent: Fluoride Analysis Run 4/24/2025 12:48 PM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.2825, Std. Dev.=0.03956, n=23. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9722, critical = 0.881. Kappa = 2.254 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

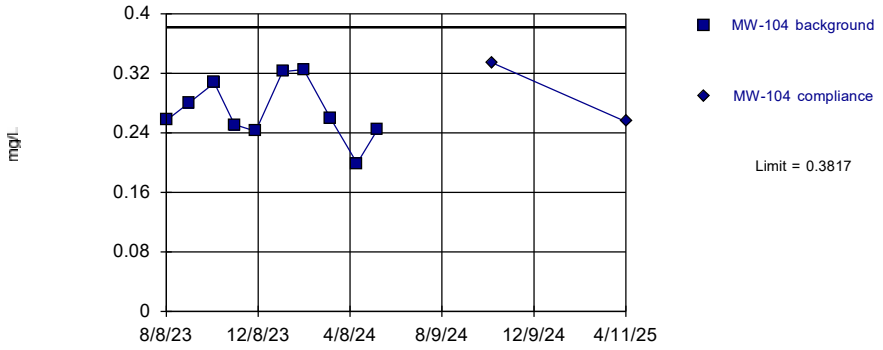
Constituent: Fluoride Analysis Run 4/24/2025 12:48 PM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.2687, Std. Dev.=0.03984, n=10. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9347, critical = 0.781. Kappa = 2.838 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

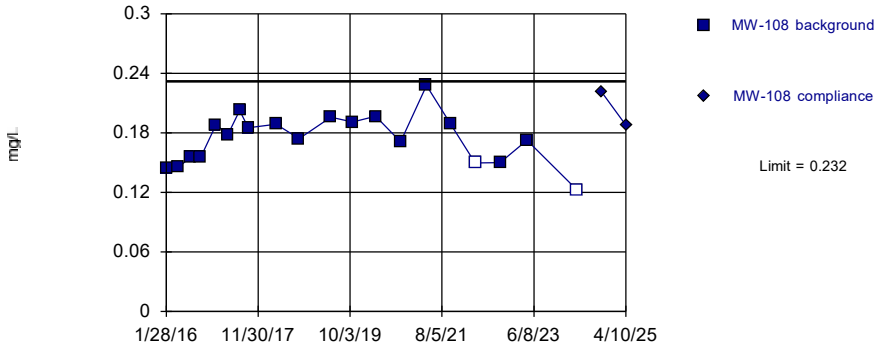
Constituent: Fluoride Analysis Run 4/24/2025 12:48 PM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.1742, Std. Dev.=0.02509, n=20. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9708, critical = 0.868. Kappa = 2.306 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

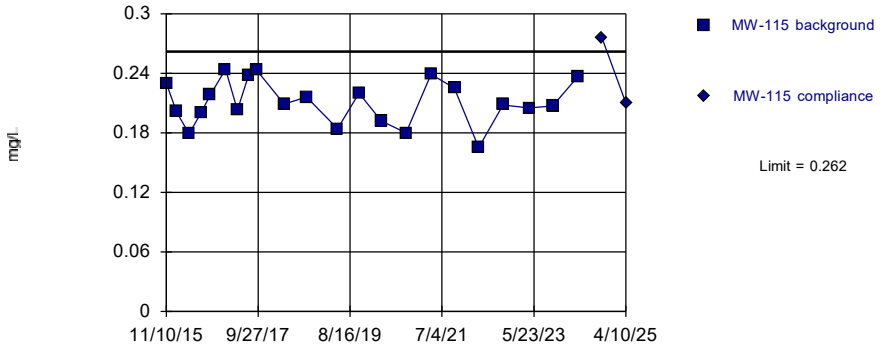
Constituent: Fluoride Analysis Run 4/24/2025 12:48 PM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.211, Std. Dev.=0.02242, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9627, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

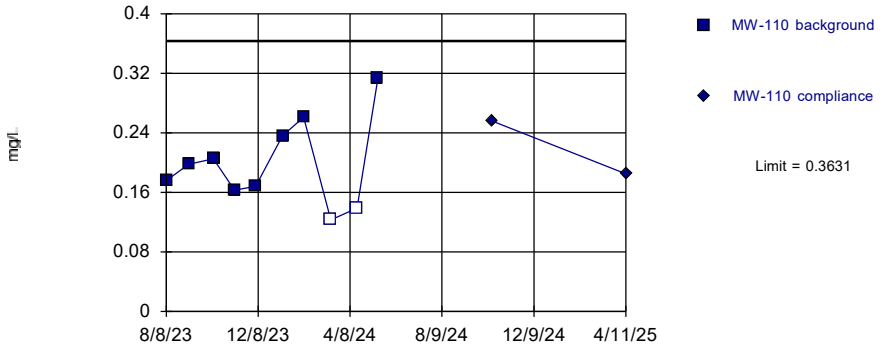
Constituent: Fluoride Analysis Run 4/24/2025 12:48 PM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.1982, Std. Dev.=0.05812, n=10. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9531, critical = 0.781. Kappa = 2.838 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

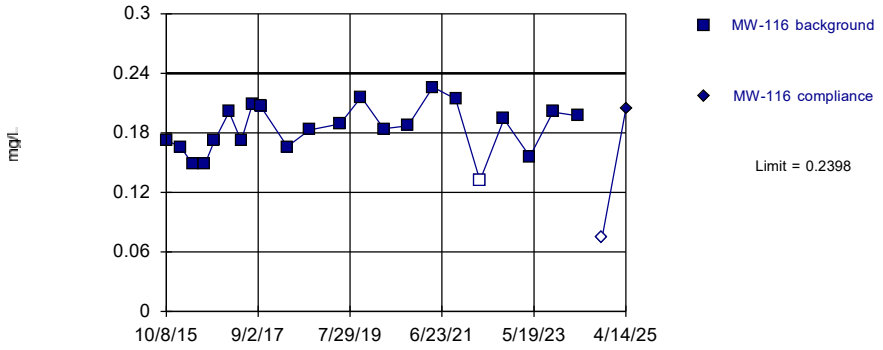
Constituent: Fluoride Analysis Run 4/24/2025 12:48 PM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.1836, Std. Dev.=0.02473, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9801, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

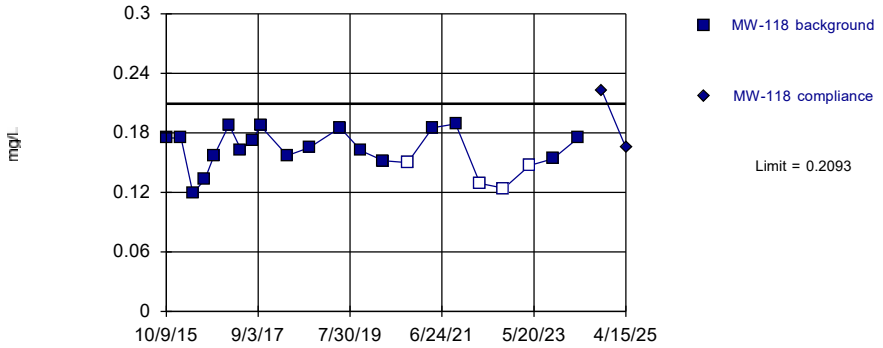
Constituent: Fluoride Analysis Run 4/24/2025 12:48 PM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.161, Std. Dev.=0.02126, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.938, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

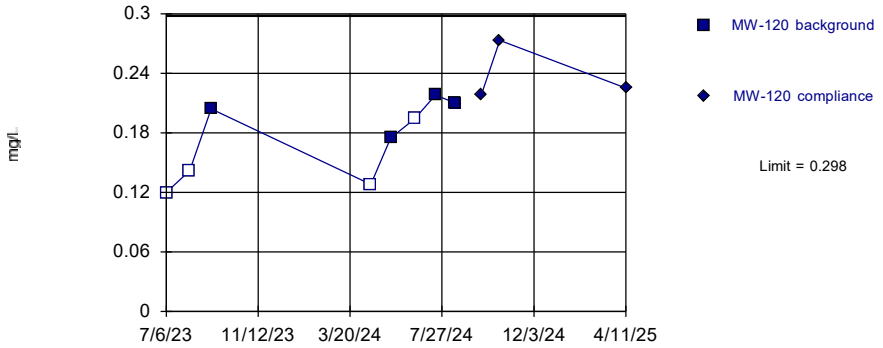
Constituent: Fluoride Analysis Run 4/24/2025 12:48 PM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.1739, Std. Dev.=0.03889, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8909, critical = 0.749. Kappa = 3.193 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

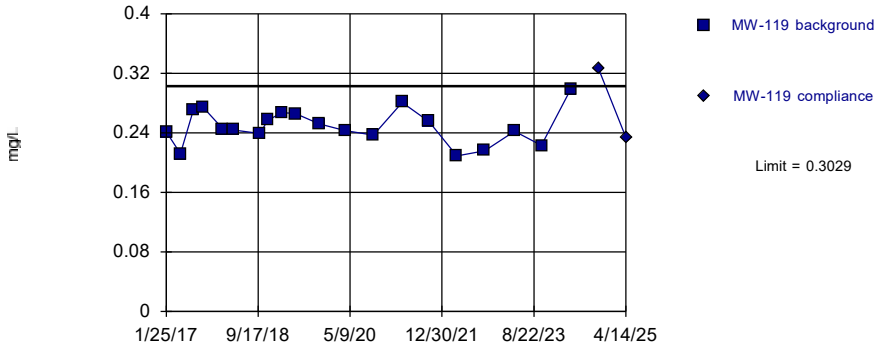
Constituent: Fluoride Analysis Run 4/29/2025 5:08 AM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.2487, Std. Dev.=0.02354, n=20. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9745, critical = 0.868. Kappa = 2.306 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

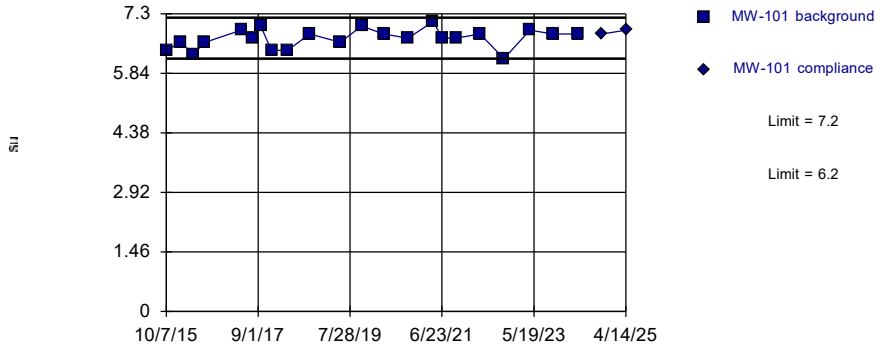
Constituent: Fluoride Analysis Run 4/24/2025 12:48 PM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.691, Std. Dev.=0.2369, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9578, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

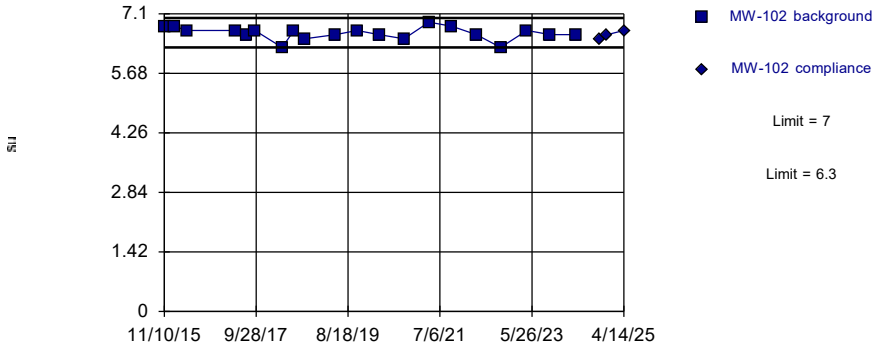
Constituent: pH Analysis Run 4/29/2025 5:23 AM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.635, Std. Dev.=0.1531, n=20. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9112, critical = 0.868. Kappa = 2.306 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/29/2025 5:23 AM View: Prediction Limits

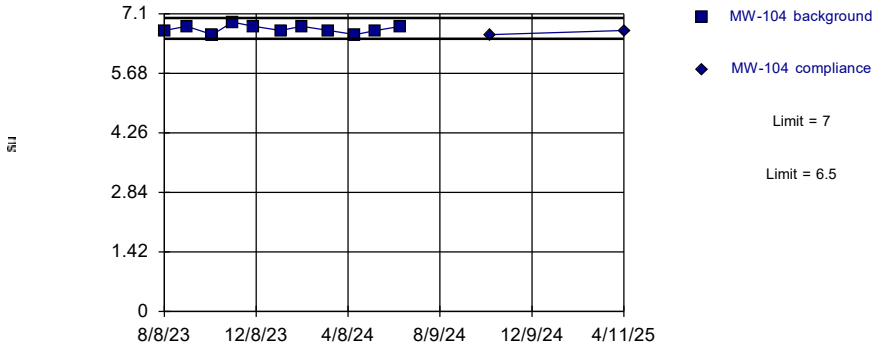
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.736, Std. Dev.=0.09244, n=11. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9055, critical = 0.792. Kappa = 2.74 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/29/2025 5:23 AM View: Prediction Limits

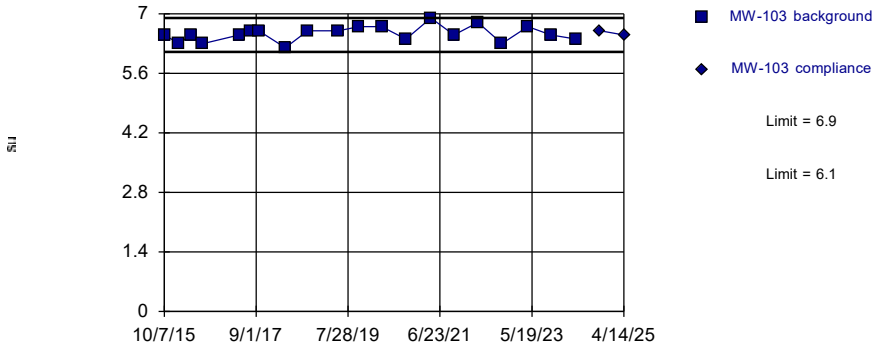
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.53, Std. Dev.=0.1809, n=20. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9698, critical = 0.868. Kappa = 2.306 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/29/2025 5:23 AM View: Prediction Limits

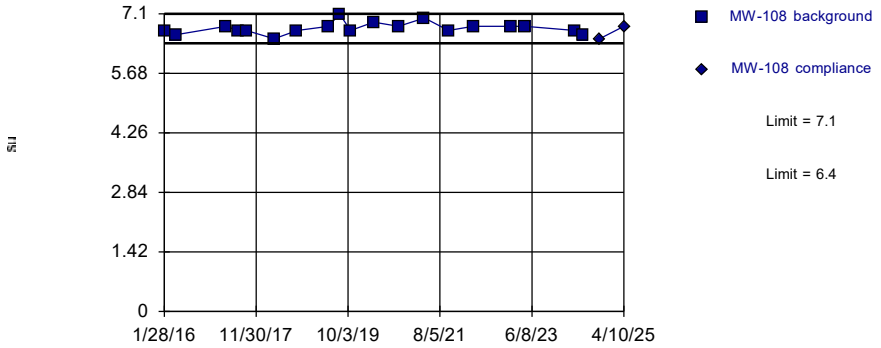
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.758, Std. Dev.=0.1387, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9145, critical = 0.863. Kappa = 2.334 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/29/2025 5:23 AM View: Prediction Limits

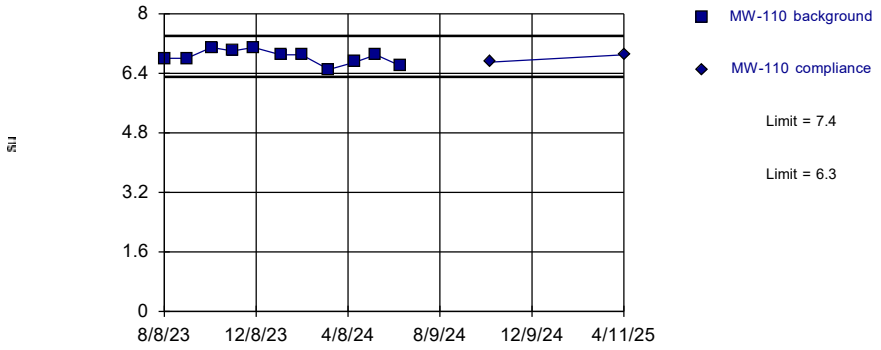
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.845, Std. Dev.=0.1916, n=11. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9505, critical = 0.792. Kappa = 2.74 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/29/2025 5:23 AM View: Prediction Limits

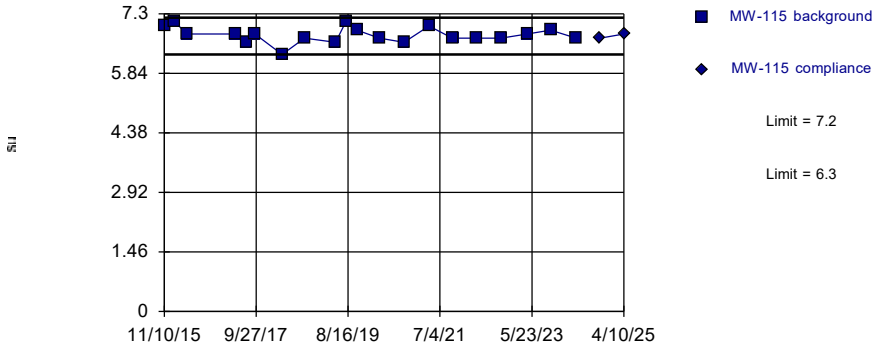
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.775, Std. Dev.=0.1916, n=20. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9372, critical = 0.868. Kappa = 2.306 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/29/2025 5:23 AM View: Prediction Limits

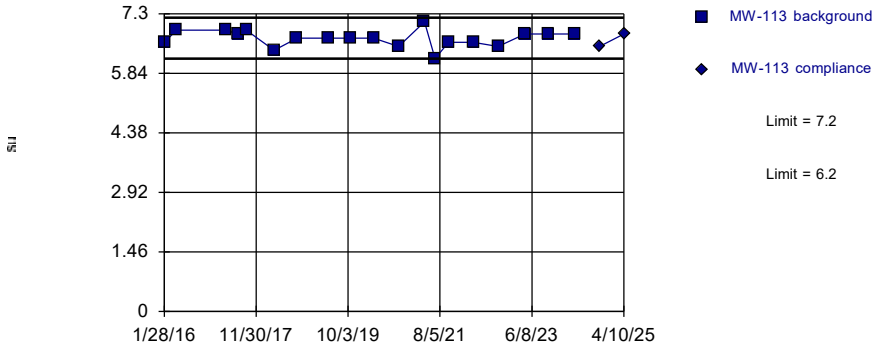
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.695, Std. Dev.=0.2068, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9659, critical = 0.863. Kappa = 2.334 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/29/2025 5:23 AM View: Prediction Limits

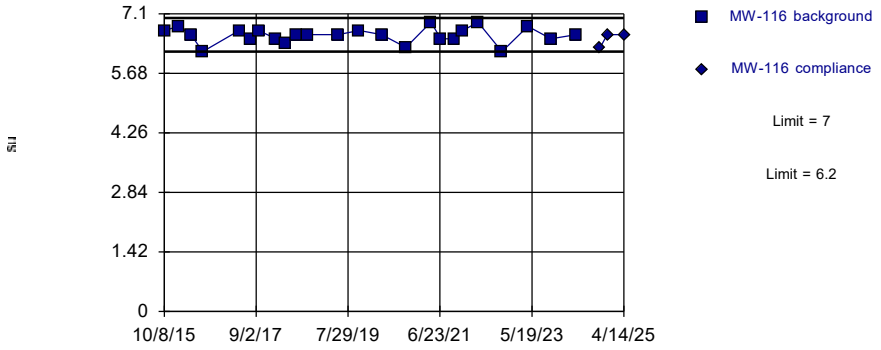
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.588, Std. Dev.=0.1872, n=24. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9417, critical = 0.884. Kappa = 2.237 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

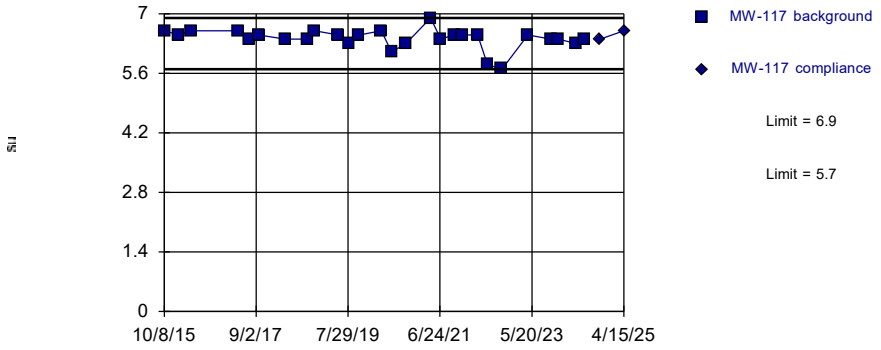
Constituent: pH Analysis Run 4/29/2025 5:23 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Within Limits

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 27 background values. Well-constituent pair annual alpha = 0.009996. Individual comparison alpha = 0.005004 (1 of 2). Seasonality was not detected with 95% confidence.

Constituent: pH Analysis Run 4/29/2025 5:23 AM View: Prediction Limits

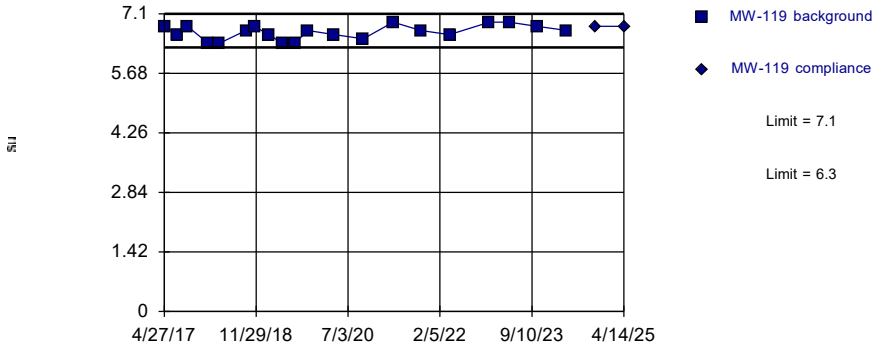
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.66, Std. Dev.=0.1729, n=20. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.907, critical = 0.868. Kappa = 2.306 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/29/2025 5:23 AM View: Prediction Limits

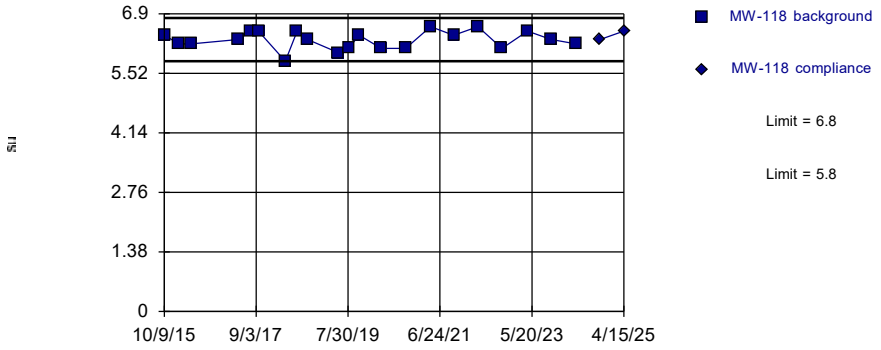
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.29, Std. Dev.=0.2119, n=21. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9514, critical = 0.873. Kappa = 2.288 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/29/2025 5:23 AM View: Prediction Limits

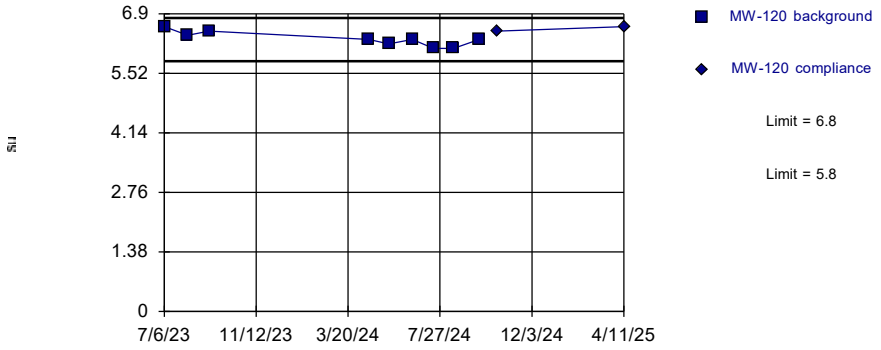
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.311, Std. Dev.=0.1691, n=9. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9393, critical = 0.764. Kappa = 3.015 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/29/2025 5:23 AM View: Prediction Limits

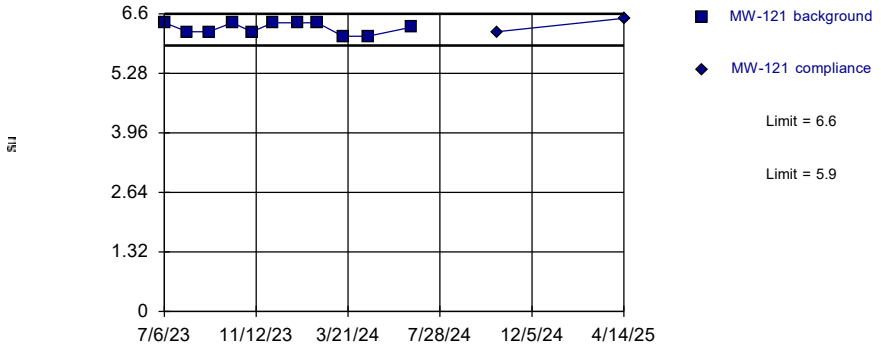
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.282, Std. Dev.=0.125, n=11. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8067, critical = 0.792. Kappa = 2.74 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

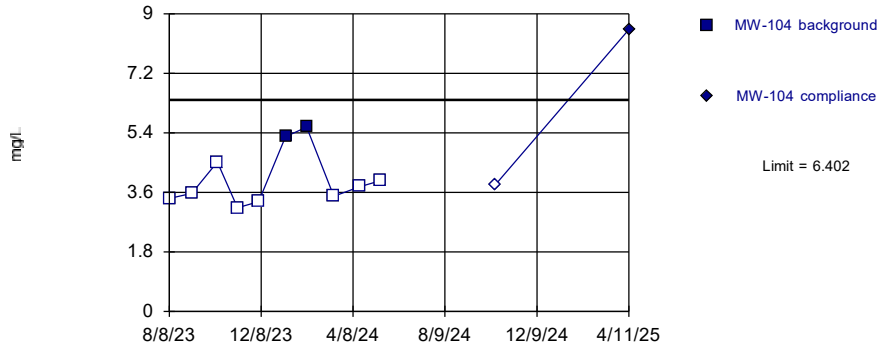
Constituent: pH Analysis Run 4/29/2025 5:23 AM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=4.002, Std. Dev.=0.8458, n=10. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8559, critical = 0.781. Kappa = 2.838 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

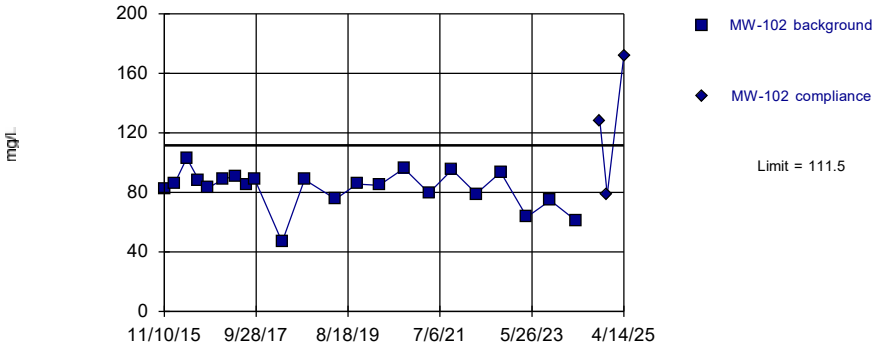
Constituent: Sulfate Analysis Run 4/24/2025 12:48 PM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=82.71, Std. Dev.=12.69, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9027, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

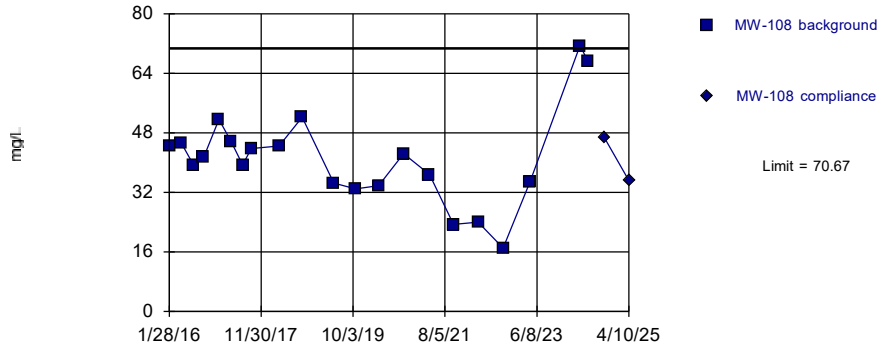
Constituent: Sulfate Analysis Run 4/24/2025 12:48 PM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=41.22, Std. Dev.=12.87, n=21. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9456, critical = 0.873. Kappa = 2.288 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

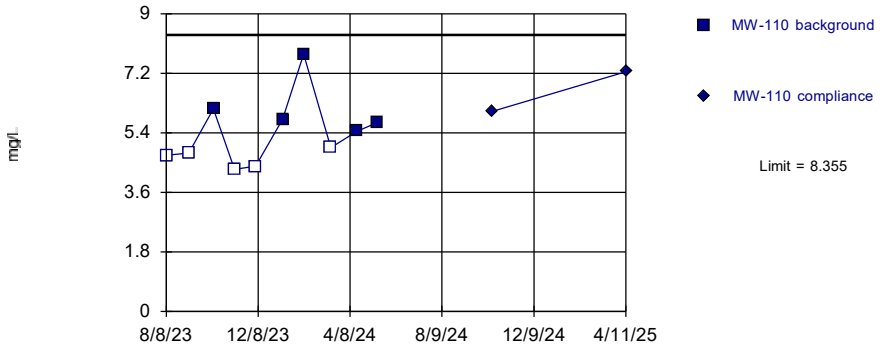
Constituent: Sulfate Analysis Run 4/24/2025 12:48 PM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.402, Std. Dev.=1.041, n=10. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8866, critical = 0.781. Kappa = 2.838 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

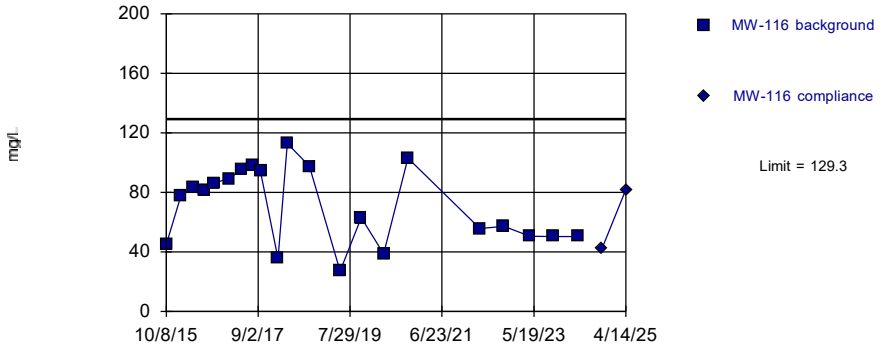
Constituent: Sulfate Analysis Run 4/24/2025 12:48 PM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=71.13, Std. Dev.=25.42, n=21. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9432, critical = 0.873. Kappa = 2.288 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

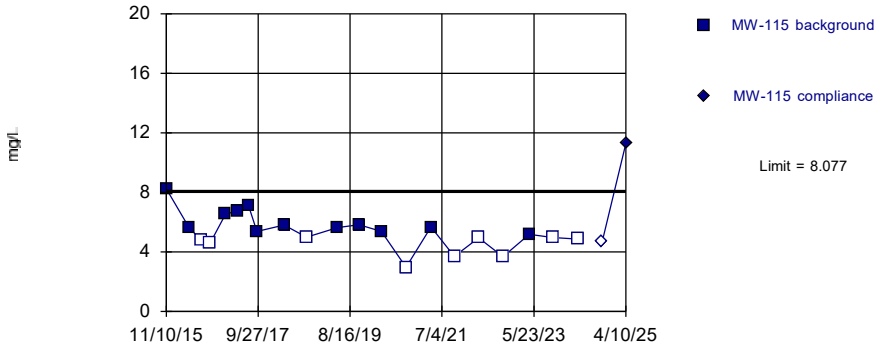
Constituent: Sulfate Analysis Run 4/24/2025 12:48 PM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.361, Std. Dev.=1.187, n=21. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9647, critical = 0.873. Kappa = 2.288 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

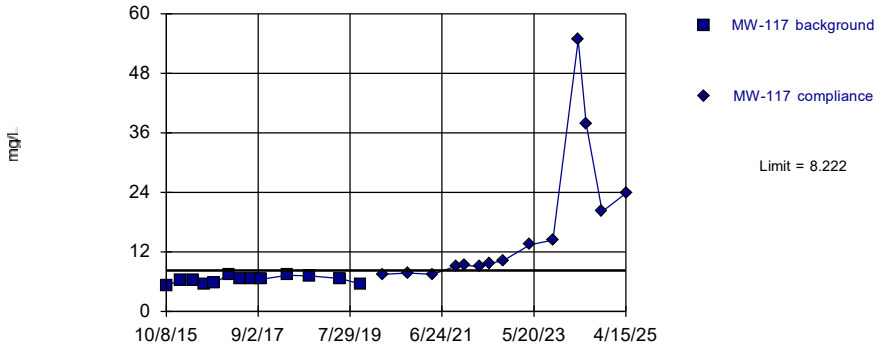
Constituent: Sulfate Analysis Run 4/24/2025 12:48 PM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

Exceeds Limit

Prediction Limit

Intrawell Parametric



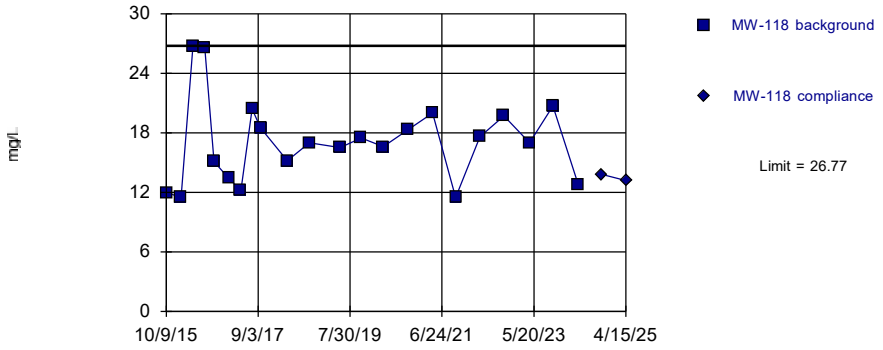
Background Data Summary: Mean=6.343, Std. Dev.=0.7263, n=13. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9459, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 4/24/2025 12:48 PM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=17.13, Std. Dev.=4.245, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9212, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 4/24/2025 12:48 PM View: Prediction Limits

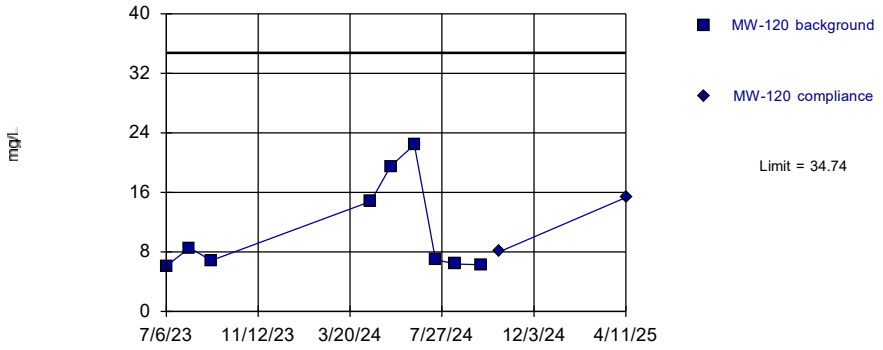
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=3.185, Std. Dev.=0.8987, n=9. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7782, critical = 0.764. Kappa = 3.015 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 4/24/2025 12:48 PM View: Prediction Limits

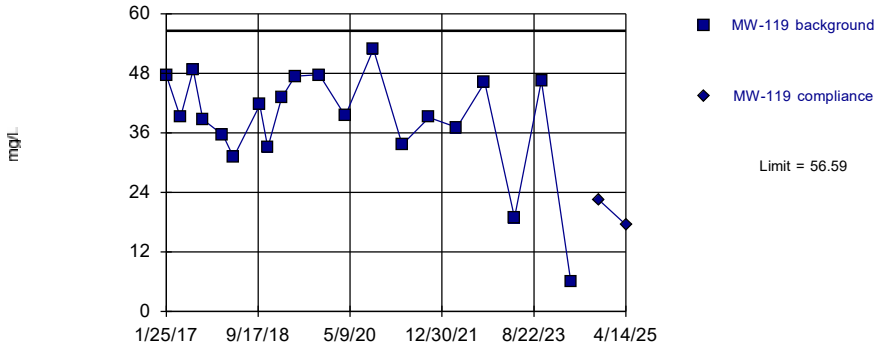
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=1608, Std. Dev.=691.8, n=20. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9604, critical = 0.868. Kappa = 2.306 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 4/24/2025 12:48 PM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

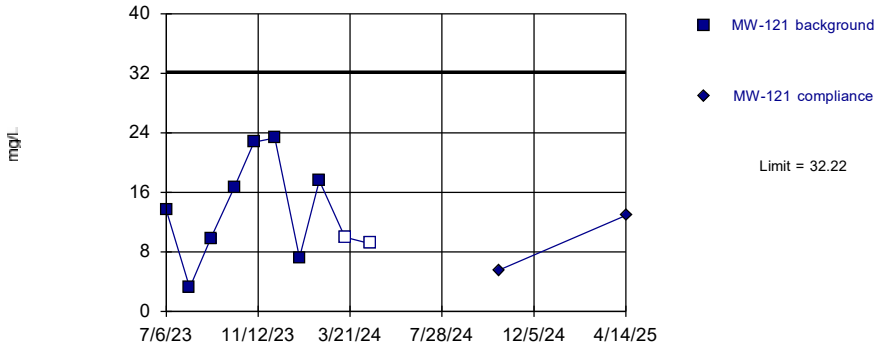
Sanitas™ v.10.0.24 Software licensed to FTN Associates. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=13.32, Std. Dev.=6.658, n=10. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9491, critical = 0.781. Kappa = 2.838 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 4/24/2025 12:48 PM View: Prediction Limits

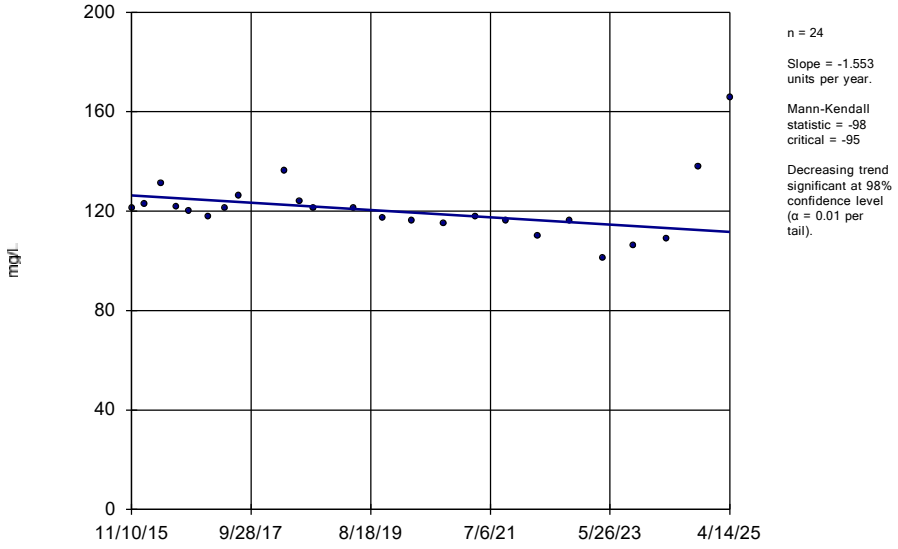
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

TREND TESTS
FIRST HALF 2025 MONITORING EVENT

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Sen's Slope Estimator

MW-102



n = 24

Slope = -1.553 units per year.

Mann-Kendall statistic = -98
critical = -95

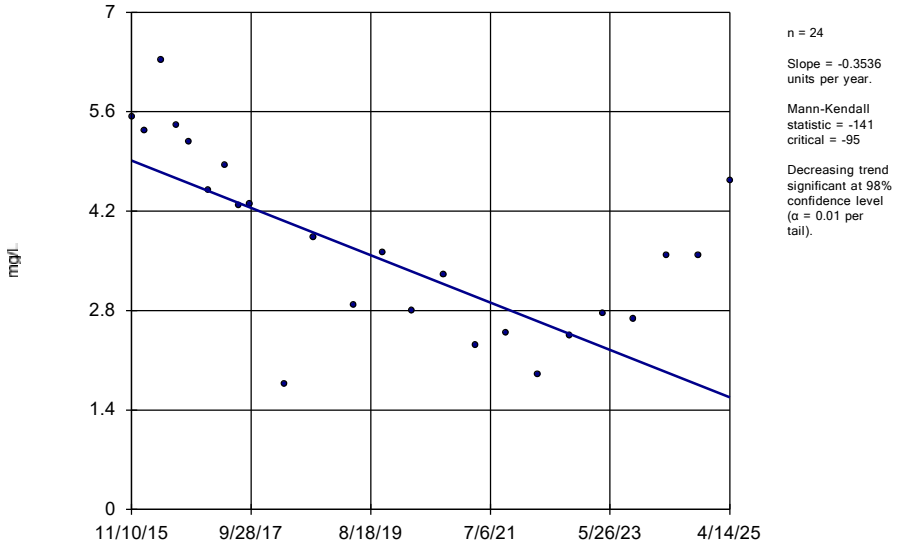
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Calcium Analysis Run 4/24/2025 1:24 PM View: Trend Tests
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Sen's Slope Estimator

MW-102



n = 24

Slope = -0.3536 units per year.

Mann-Kendall statistic = -141
critical = -95

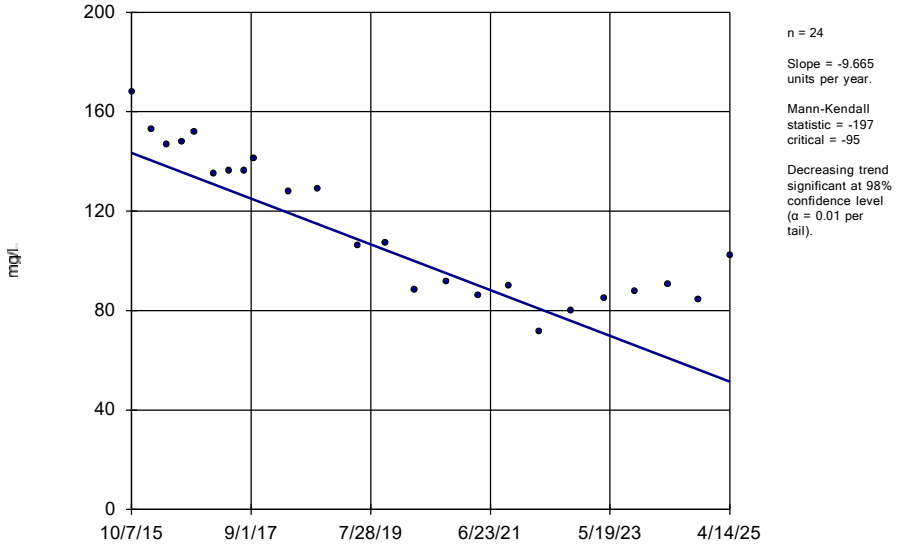
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chloride Analysis Run 4/24/2025 1:24 PM View: Trend Tests
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Sen's Slope Estimator

MW-103



n = 24

Slope = -9.665 units per year.

Mann-Kendall statistic = -197
critical = -95

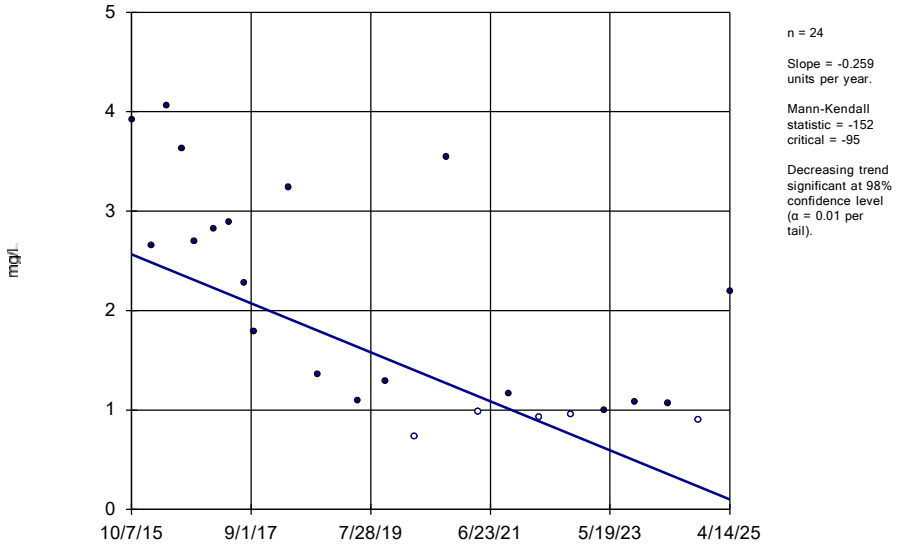
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Calcium Analysis Run 4/24/2025 1:24 PM View: Trend Tests
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-103



n = 24

Slope = -0.259 units per year.

Mann-Kendall statistic = -152
critical = -95

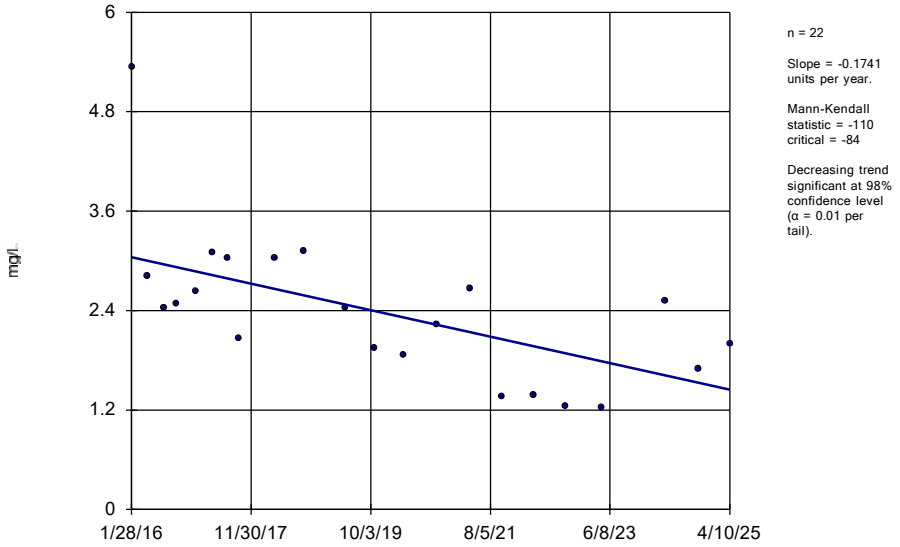
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chloride Analysis Run 4/24/2025 1:24 PM View: Trend Tests
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Sen's Slope Estimator

MW-108 (bg)



n = 22

Slope = -0.1741 units per year.

Mann-Kendall statistic = -110
critical = -84

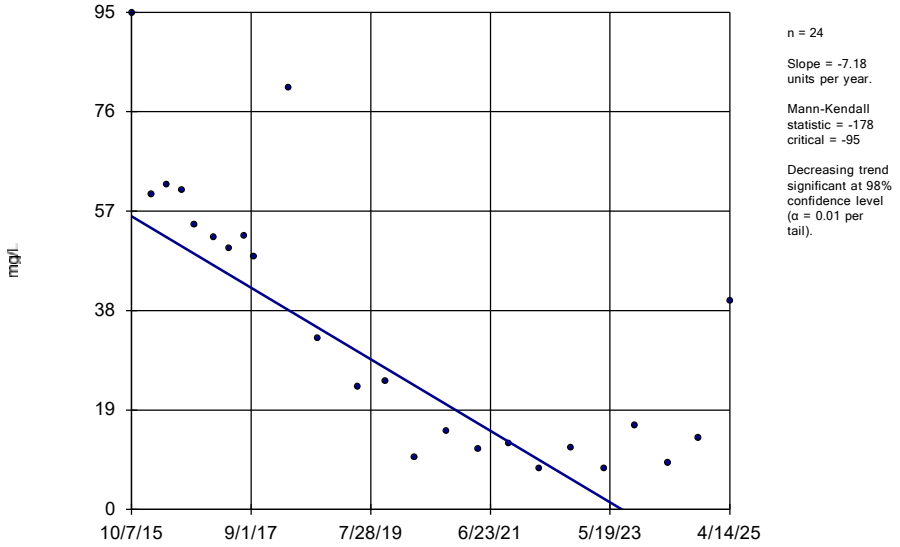
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chloride Analysis Run 4/24/2025 1:24 PM View: Trend Tests
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Sen's Slope Estimator

MW-103



n = 24

Slope = -7.18 units per year.

Mann-Kendall statistic = -178
critical = -95

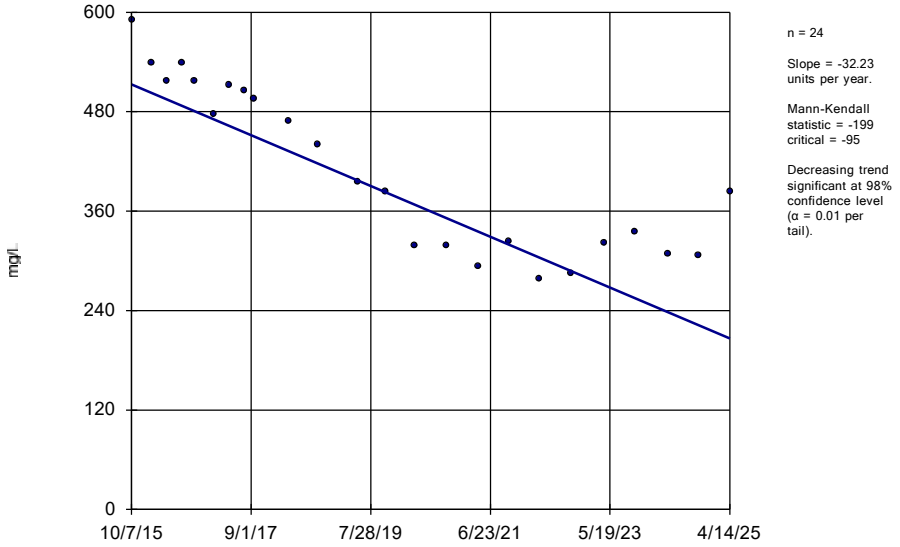
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sulfate Analysis Run 4/24/2025 1:24 PM View: Trend Tests
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Sen's Slope Estimator

MW-103



n = 24

Slope = -32.23 units per year.

Mann-Kendall statistic = -199
critical = -95

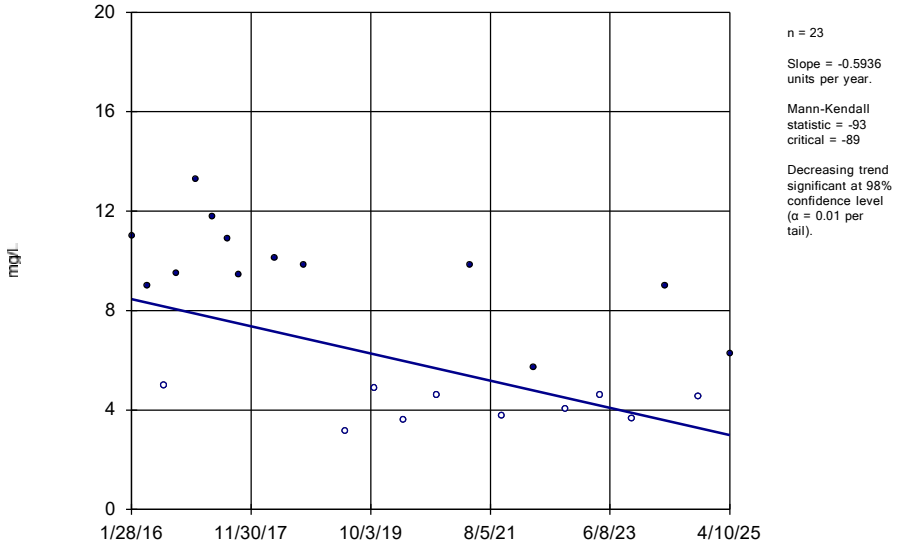
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Dissolved Solids Analysis Run 4/24/2025 1:24 PM View: Trend Tests
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-113 (bg)



n = 23

Slope = -0.5936 units per year.

Mann-Kendall statistic = -93
critical = -89

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sulfate Analysis Run 4/24/2025 1:24 PM View: Trend Tests
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

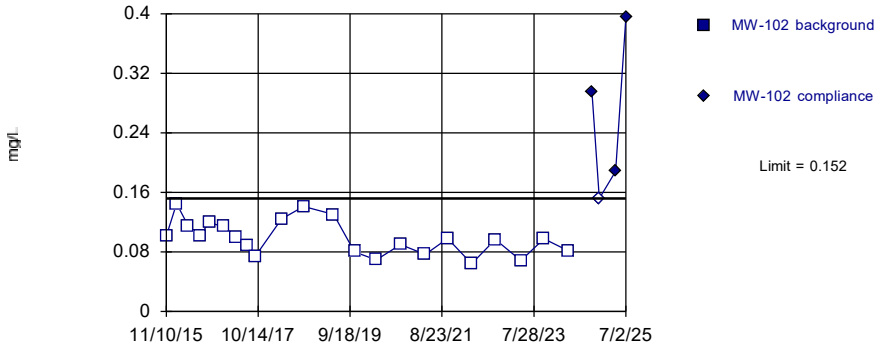
PREDICTION LIMITS
FIRST HALF 2025 VERIFICATION SAMPLING EVENT

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Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.09891, Std. Dev.=0.02336, n=22. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9603, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

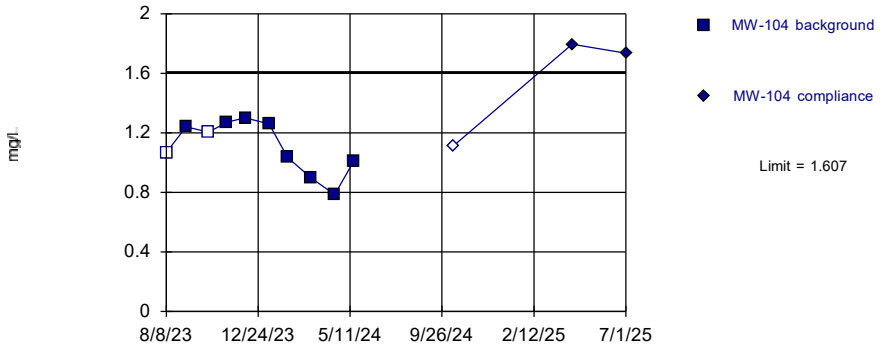
Constituent: Boron Analysis Run 7/21/2025 8:27 AM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.106, Std. Dev.=0.1765, n=10. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9077, critical = 0.781. Kappa = 2.838 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

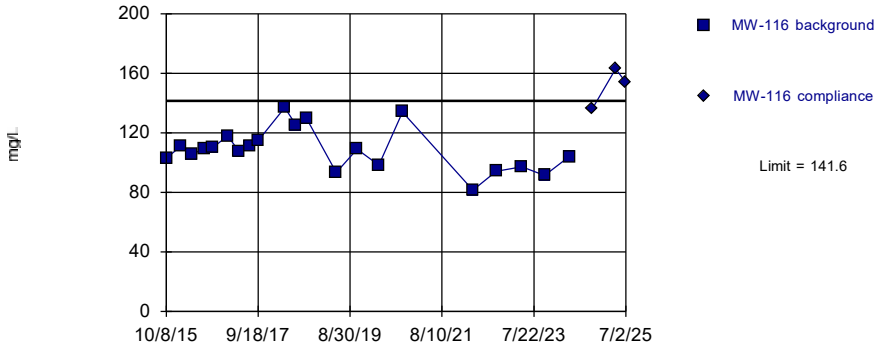
Constituent: Chloride Analysis Run 7/21/2025 8:27 AM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.27 Software licensed to Olsson. UG

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=108.8, Std. Dev.=14.33, n=21. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9696, critical = 0.873. Kappa = 2.288 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

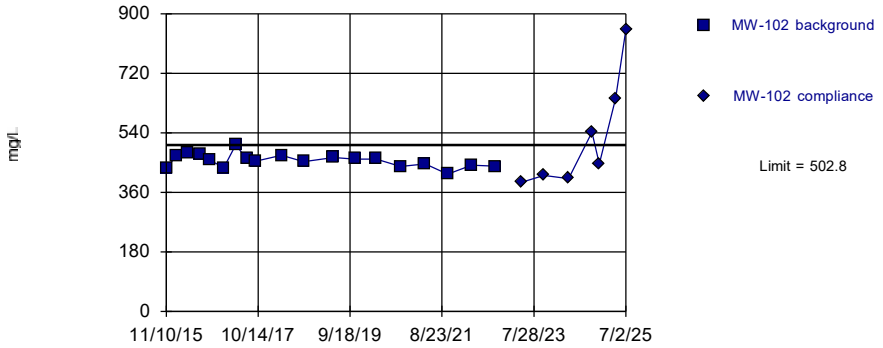
Constituent: Calcium Analysis Run 7/21/2025 8:27 AM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=455.8, Std. Dev.=20.1, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.976, critical = 0.863. Kappa = 2.334 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

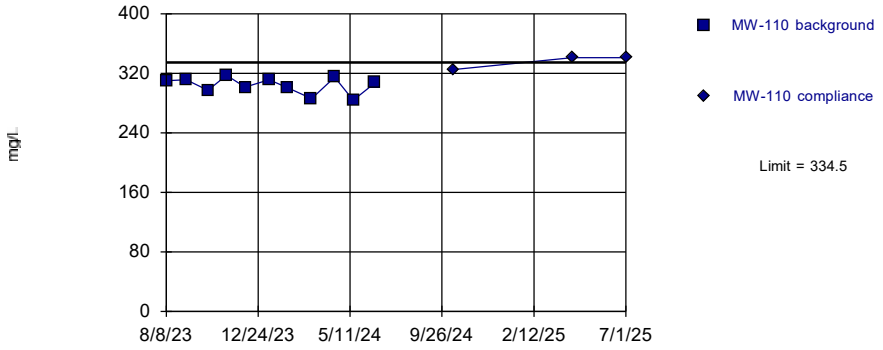
Constituent: Dissolved Solids Analysis Run 7/21/2025 8:27 AM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=303.8, Std. Dev.=11.22, n=11. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9028, critical = 0.792. Kappa = 2.74 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Dissolved Solids Analysis Run 7/21/2025 8:27 AM View: Prediction Limits

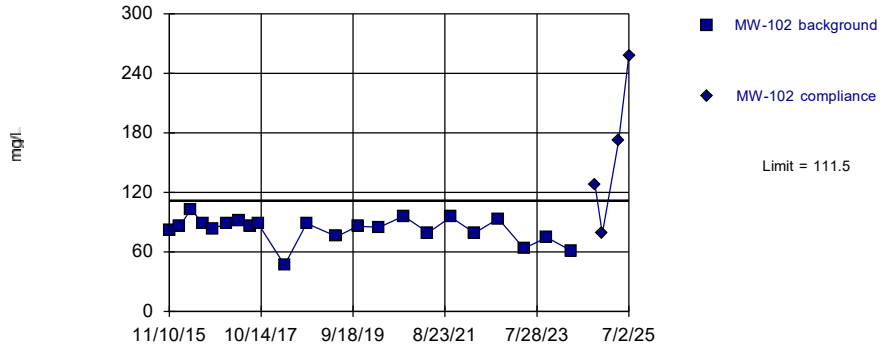
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=82.71, Std. Dev.=12.69, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9027, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 7/21/2025 8:27 AM View: Prediction Limits

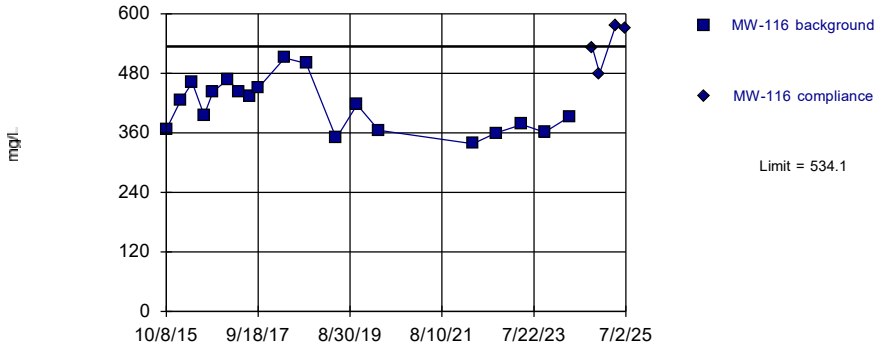
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=413.6, Std. Dev.=51.65, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9491, critical = 0.863. Kappa = 2.334 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Dissolved Solids Analysis Run 7/21/2025 8:27 AM View: Prediction Limits

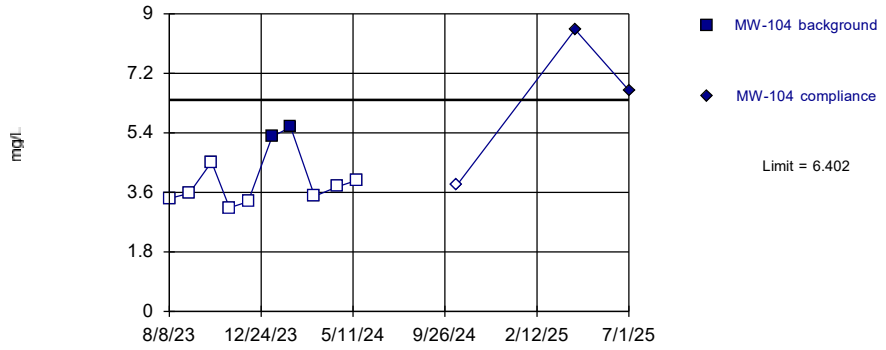
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=4.002, Std. Dev.=0.8458, n=10. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8559, critical = 0.781. Kappa = 2.838 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 7/21/2025 8:27 AM View: Prediction Limits

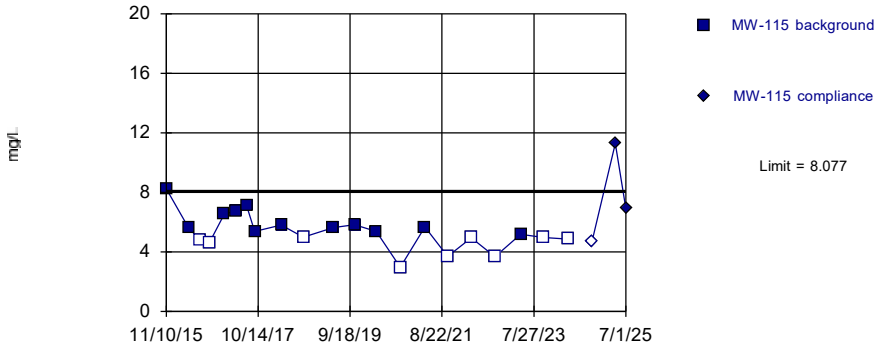
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.27 Software licensed to Olsson. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.361, Std. Dev.=1.187, n=21. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9647, critical = 0.873. Kappa = 2.288 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 7/21/2025 8:27 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

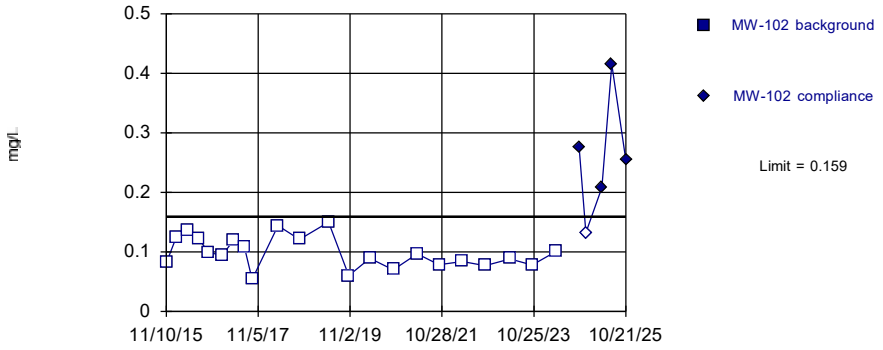
PREDICTION LIMITS
SECOND HALF 2025 MONITORING EVENT

Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.09891, Std. Dev.=0.02645, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9701, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

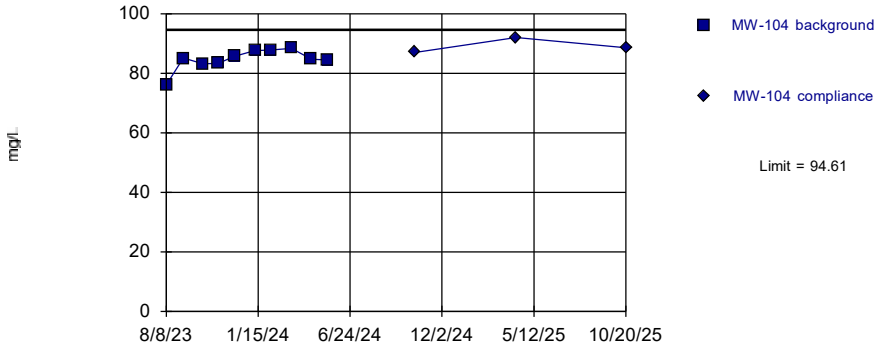
Constituent: Boron Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=84.64, Std. Dev.=3.513, n=10. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8397, critical = 0.781. Kappa = 2.838 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

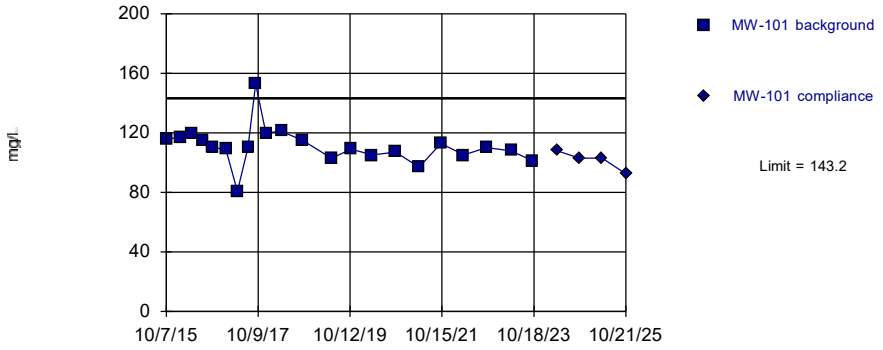
Constituent: Calcium Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.704, Std. Dev.=0.1144, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8791, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

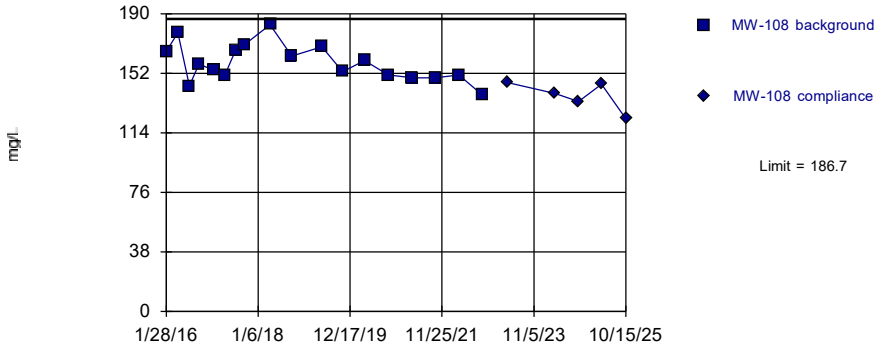
Constituent: Calcium Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=158.6, Std. Dev.=11.89, n=18. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9668, critical = 0.858. Kappa = 2.363 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Calcium Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

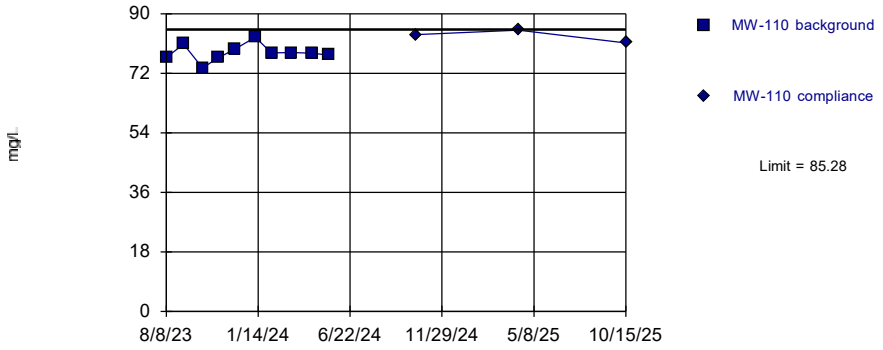
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=78.22, Std. Dev.=2.489, n=10. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9529, critical = 0.781. Kappa = 2.838 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Calcium Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

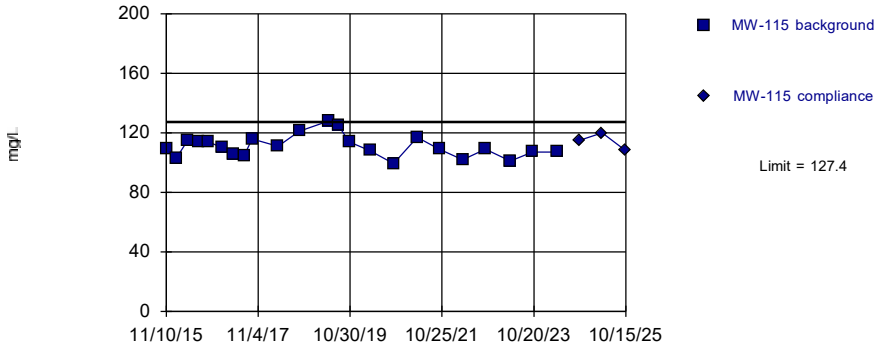
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.02 Software licensed to Olsson. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=110.9, Std. Dev.=7.334, n=23. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.959, critical = 0.881. Kappa = 2.254 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Calcium Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

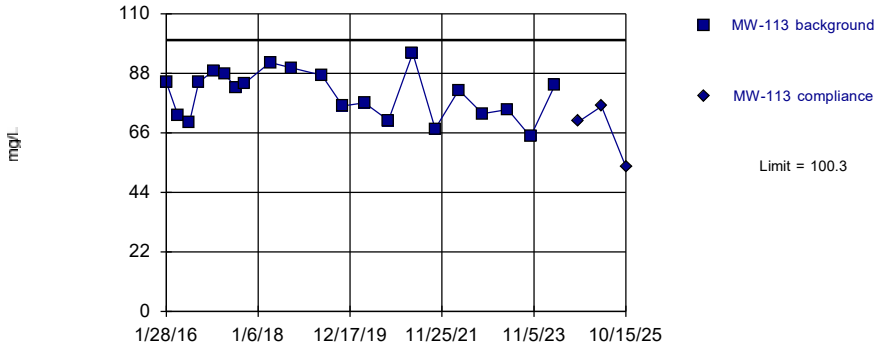
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.02 Software licensed to Olsson. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=80.41, Std. Dev.=8.671, n=21. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9662, critical = 0.873. Kappa = 2.288 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Calcium Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

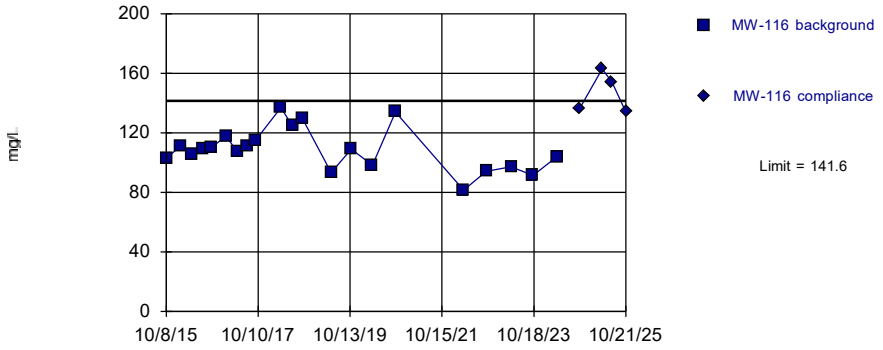
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.02 Software licensed to Olsson. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=108.8, Std. Dev.=14.33, n=21. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9696, critical = 0.873. Kappa = 2.288 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Calcium Analysis Run 11/10/2025 6:44 AM View: Distributional

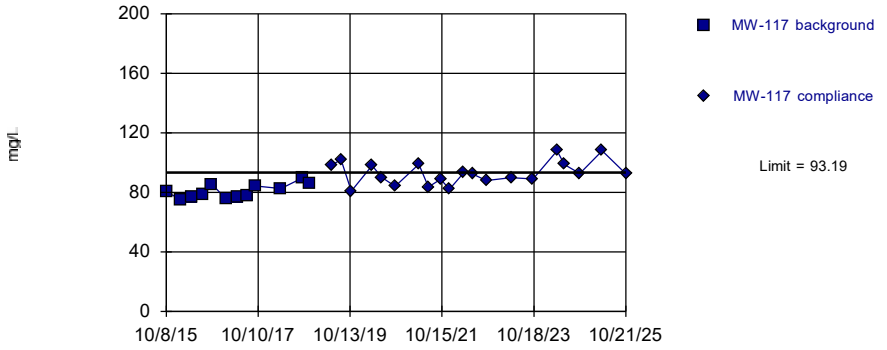
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=80.69, Std. Dev.=4.731, n=12. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9147, critical = 0.805. Kappa = 2.643 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Calcium Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

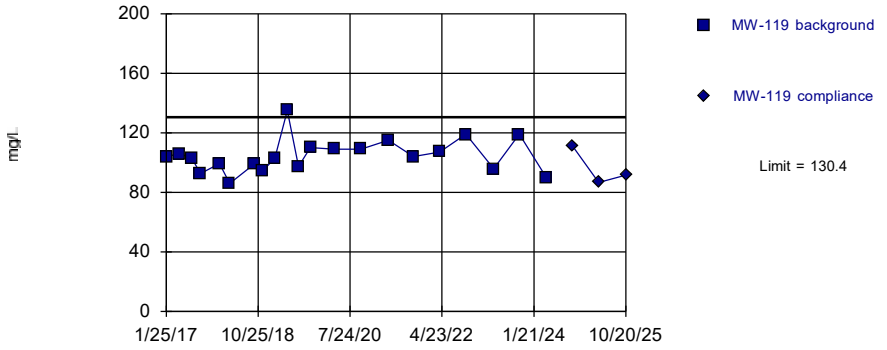
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=104.6, Std. Dev.=11.29, n=21. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9577, critical = 0.873. Kappa = 2.288 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Calcium Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

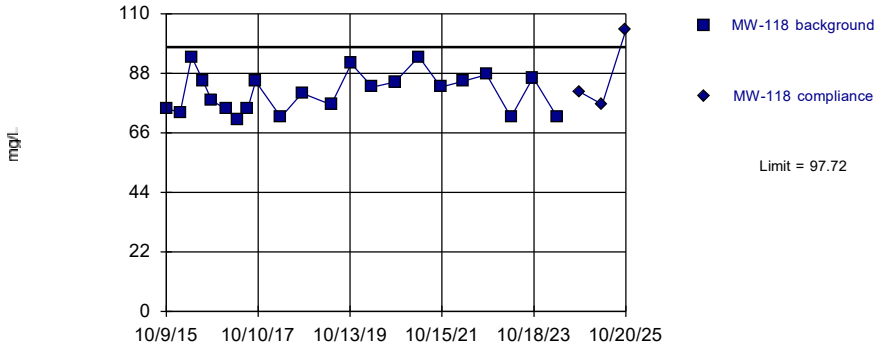
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=80.9, Std. Dev.=7.405, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9248, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Calcium Analysis Run 11/10/2025 6:44 AM View: Distributional

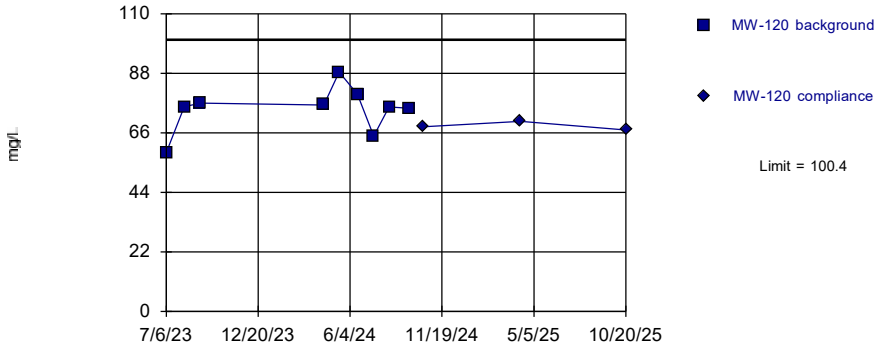
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=74.65, Std. Dev.=8.548, n=9. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9045, critical = 0.764. Kappa = 3.015 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

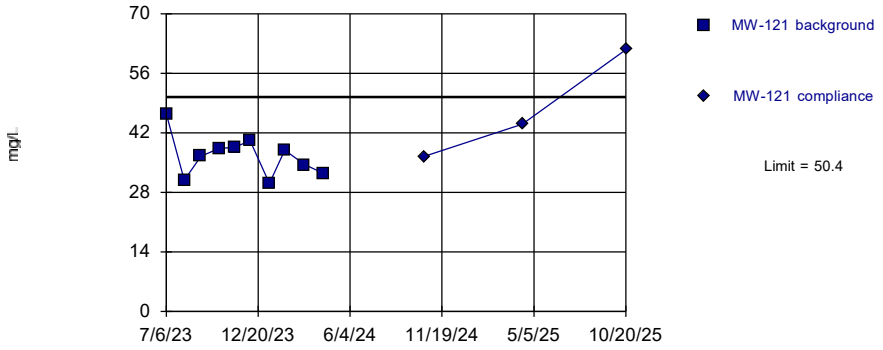
Constituent: Calcium Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=36.56, Std. Dev.=4.875, n=10. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9477, critical = 0.781. Kappa = 2.838 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Calcium Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

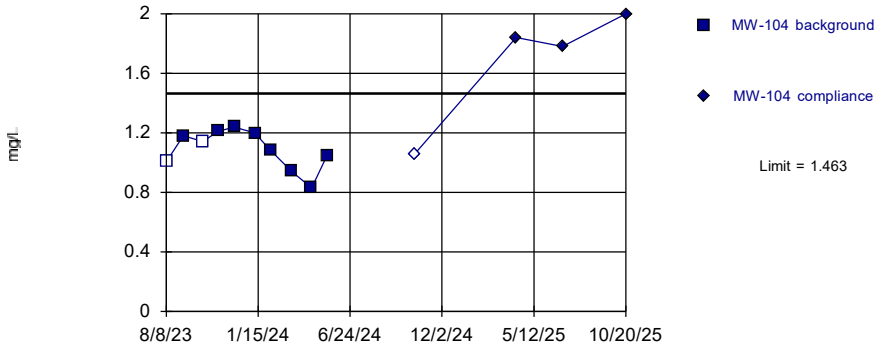
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.088, Std. Dev.=0.1323, n=10. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9297, critical = 0.781. Kappa = 2.838 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

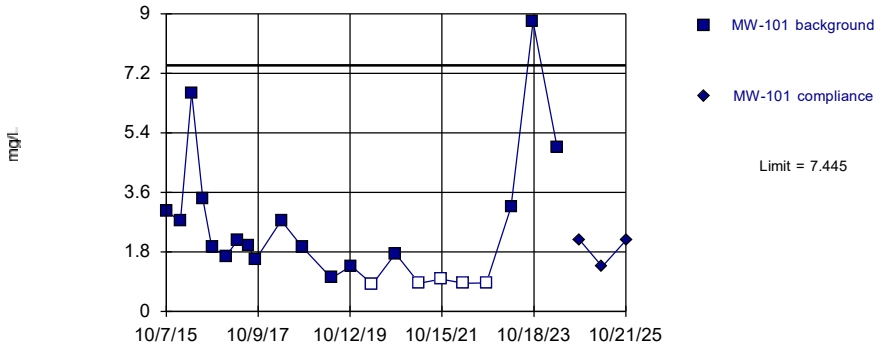
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=1.491, Std. Dev.=0.545, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8804, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

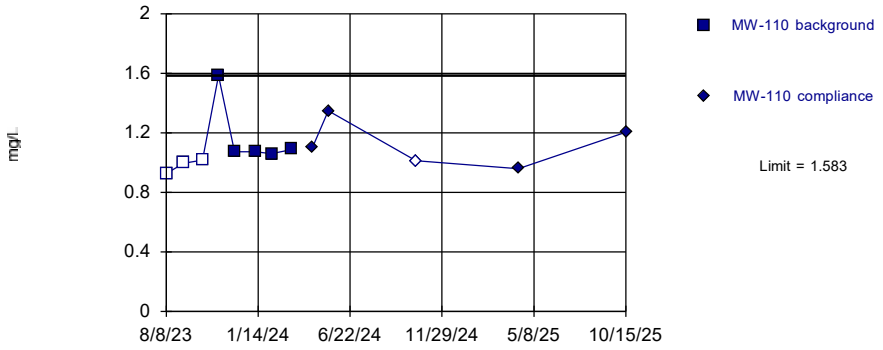
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 8 background values. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2). Data were deseasonalized.

Constituent: Chloride Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

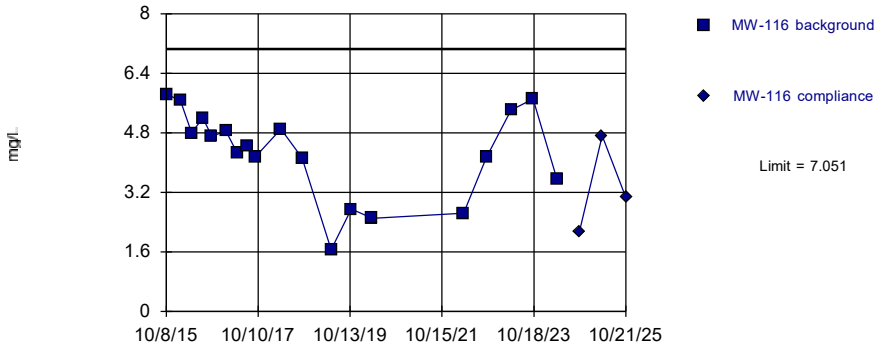
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=4.279, Std. Dev.=1.188, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9304, critical = 0.863. Kappa = 2.334 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

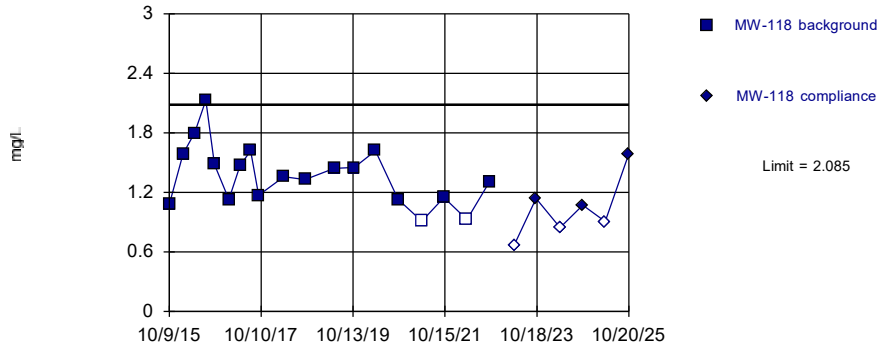
Sanitas™ v.10.1.02 Software licensed to Olsson. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.374, Std. Dev.=0.3046, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9584, critical = 0.863. Kappa = 2.334 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

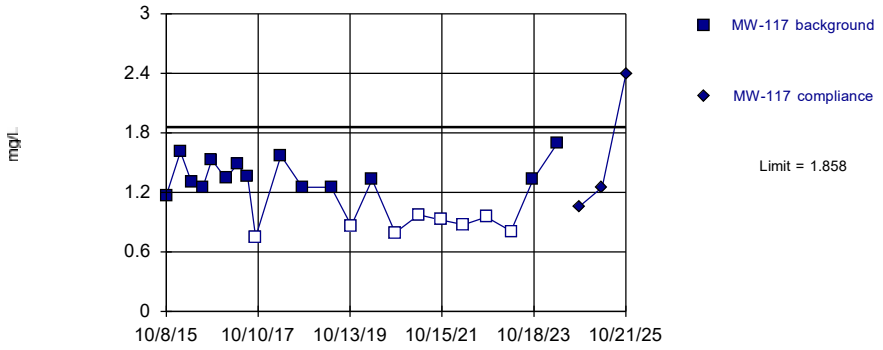
Sanitas™ v.10.1.02 Software licensed to Olsson. UG

Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.2, Std. Dev.=0.2897, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9385, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

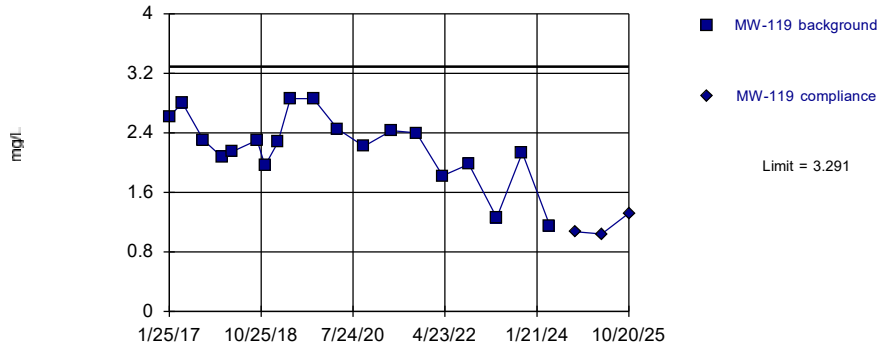
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.02 Software licensed to Olsson. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.212, Std. Dev.=0.4623, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9246, critical = 0.863. Kappa = 2.334 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

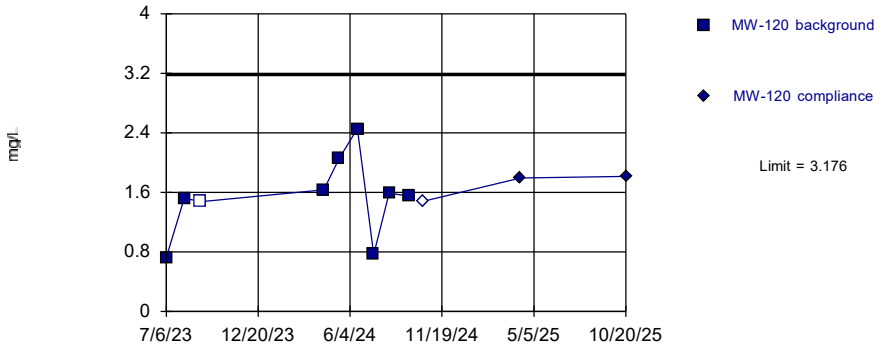
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.531, Std. Dev.=0.5457, n=9. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9123, critical = 0.764. Kappa = 3.015 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

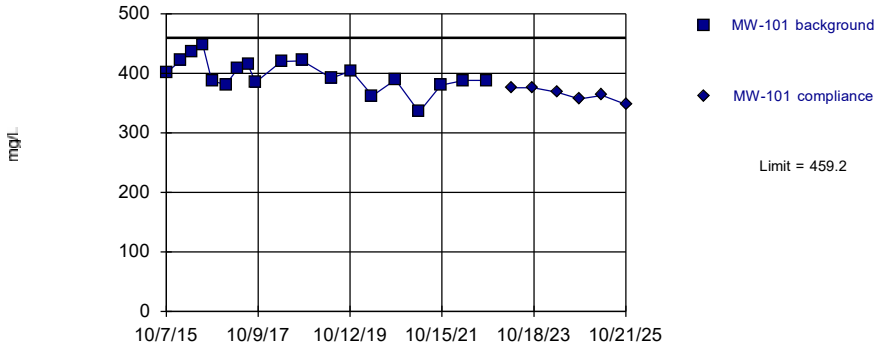
Constituent: Chloride Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=397.9, Std. Dev.=26.28, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9663, critical = 0.863. Kappa = 2.334 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Dissolved Solids Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

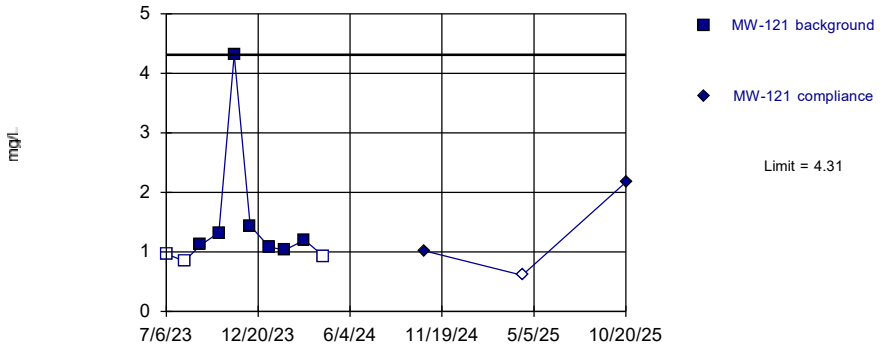
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 10 background values. Well-constituent pair annual alpha = 0.0293. Individual comparison alpha = 0.01476 (1 of 2). Seasonality was not detected with 95% confidence.

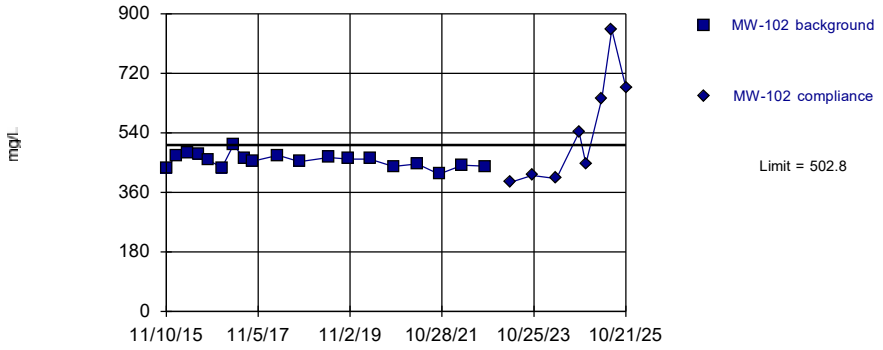
Constituent: Chloride Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=455.8, Std. Dev.=20.1, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.976, critical = 0.863. Kappa = 2.334 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

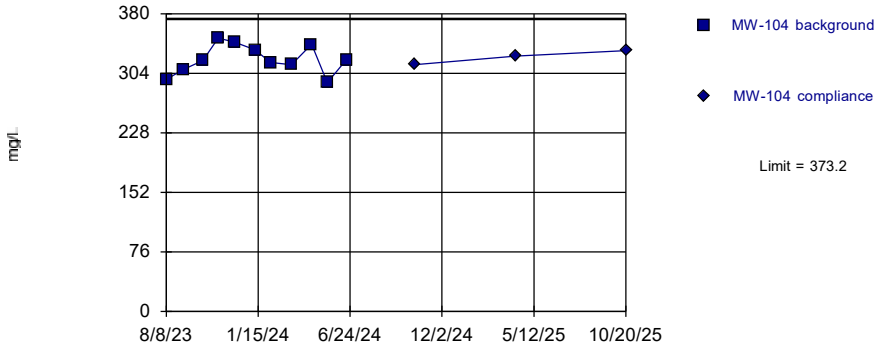
Constituent: Dissolved Solids Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=321.7, Std. Dev.=18.79, n=11. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9522, critical = 0.792. Kappa = 2.74 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Dissolved Solids Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

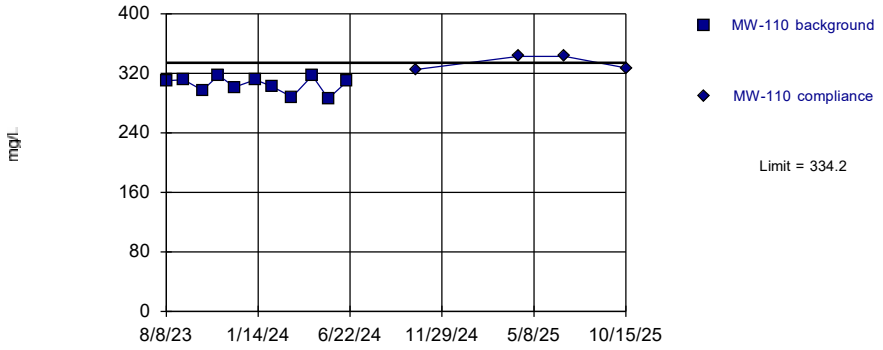
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=304.7, Std. Dev.=10.78, n=11. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9014, critical = 0.792. Kappa = 2.74 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Dissolved Solids Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

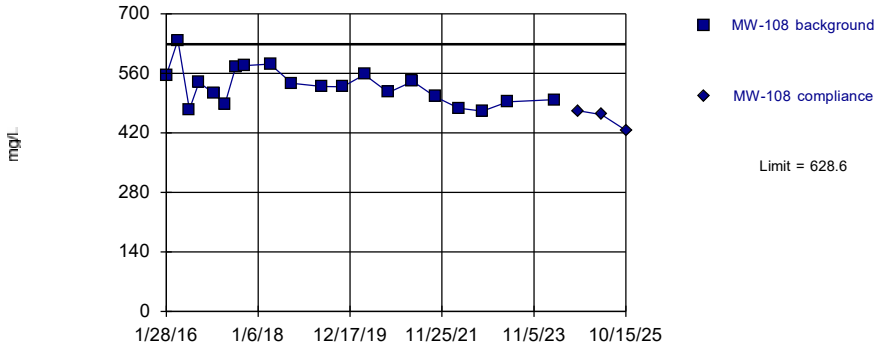
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=529.8, Std. Dev.=42.86, n=20. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9516, critical = 0.868. Kappa = 2.306 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Dissolved Solids Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

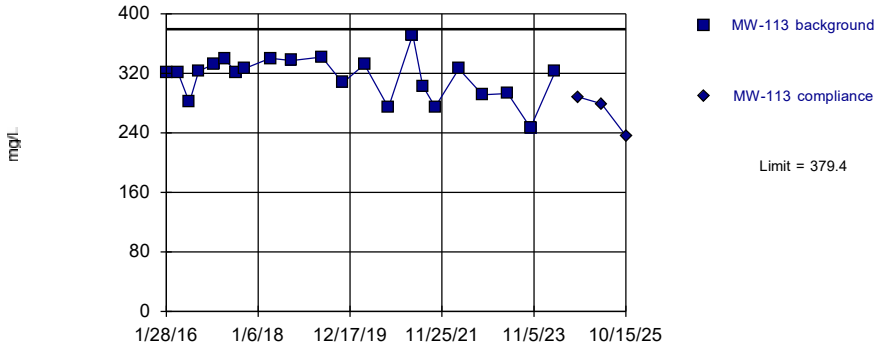
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=314.7, Std. Dev.=28.47, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9493, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Dissolved Solids Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

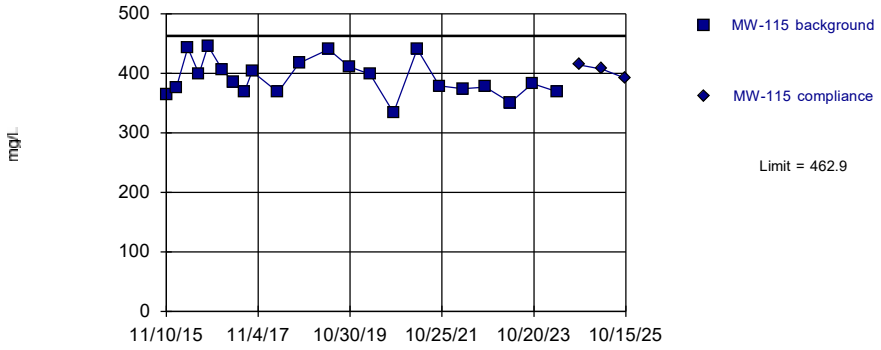
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=392.4, Std. Dev.=31.04, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9482, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Dissolved Solids Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

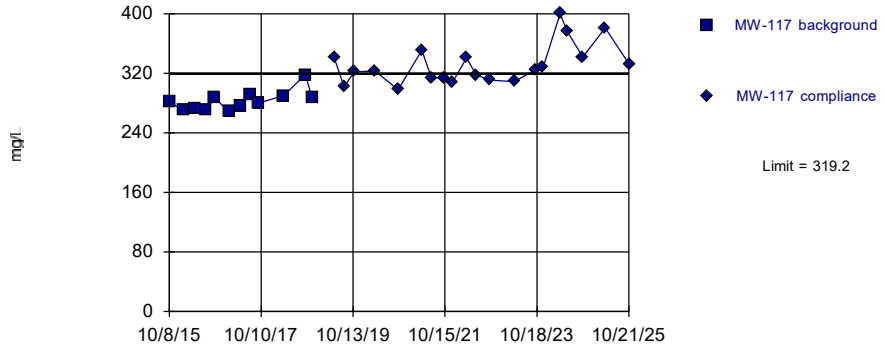
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=282.9, Std. Dev.=13.75, n=12. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.861, critical = 0.805. Kappa = 2.643 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Dissolved Solids Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

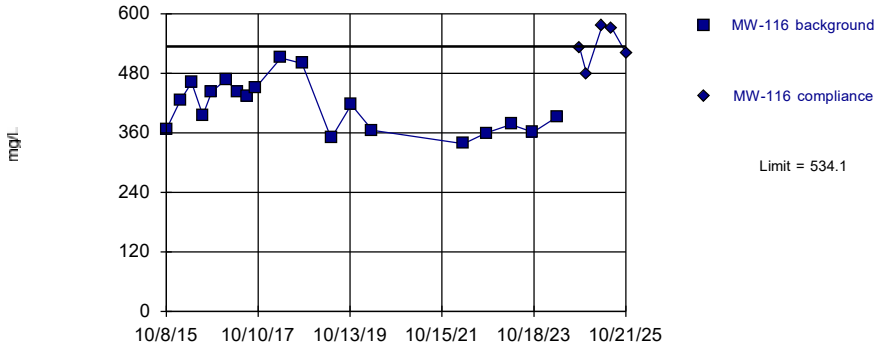
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=413.6, Std. Dev.=51.65, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9491, critical = 0.863. Kappa = 2.334 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Dissolved Solids Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

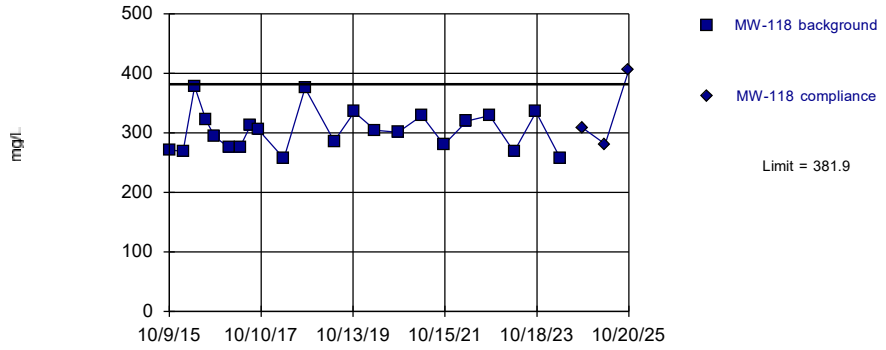
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=303.6, Std. Dev.=34.45, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9357, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

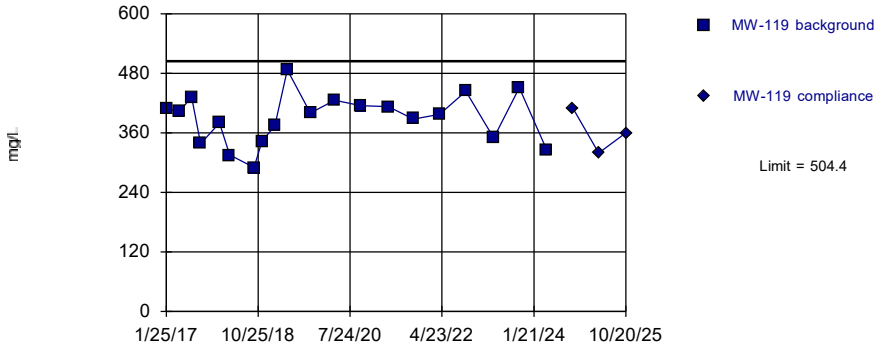
Constituent: Dissolved Solids Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=389, Std. Dev.=50.07, n=20. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.983, critical = 0.868. Kappa = 2.306 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

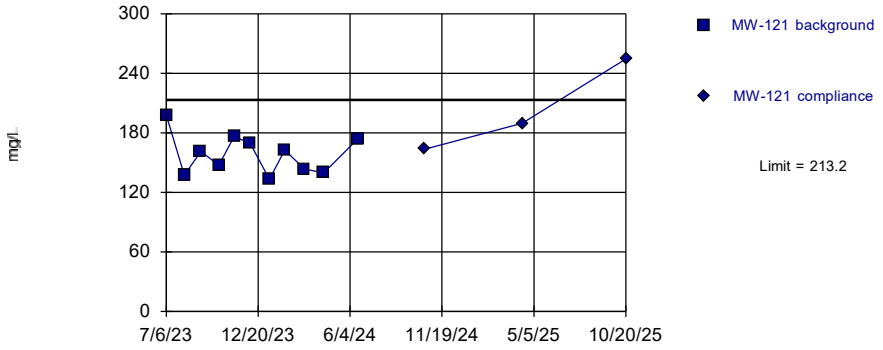
Constituent: Dissolved Solids Analysis Run 10/31/2025 6:47 AM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=158.3, Std. Dev.=20.01, n=11. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9405, critical = 0.792. Kappa = 2.74 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

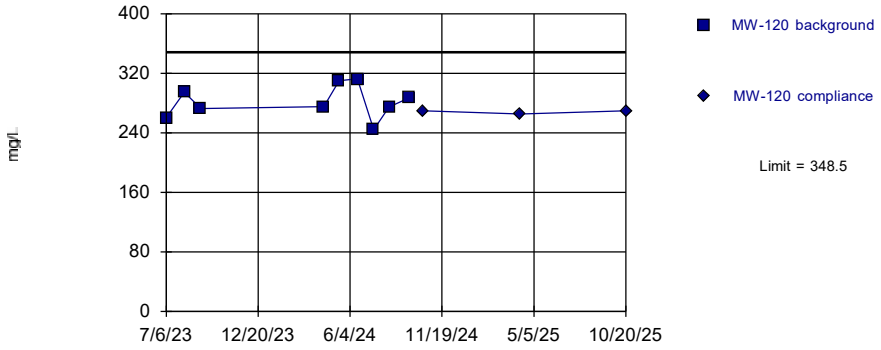
Constituent: Dissolved Solids Analysis Run 10/31/2025 6:47 AM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=281.3, Std. Dev.=22.29, n=9. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9593, critical = 0.764. Kappa = 3.015 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

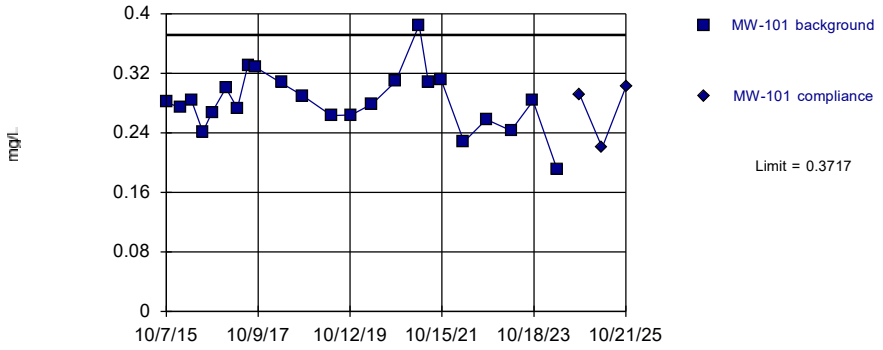
Constituent: Dissolved Solids Analysis Run 10/31/2025 6:47 AM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.2825, Std. Dev.=0.03956, n=23. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9722, critical = 0.881. Kappa = 2.254 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

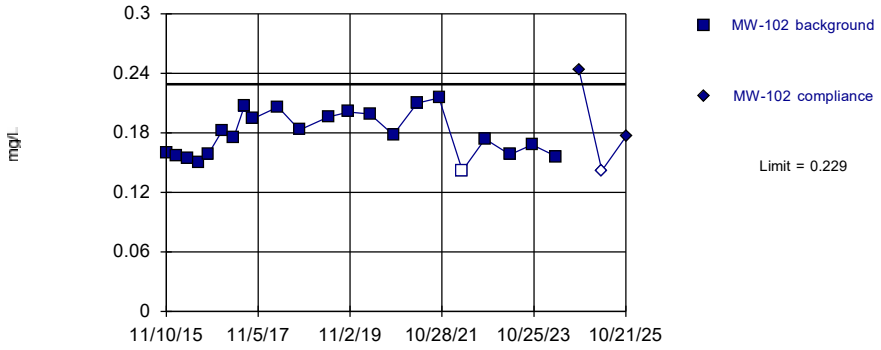
Constituent: Fluoride Analysis Run 10/31/2025 6:47 AM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.1783, Std. Dev.=0.02229, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9394, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

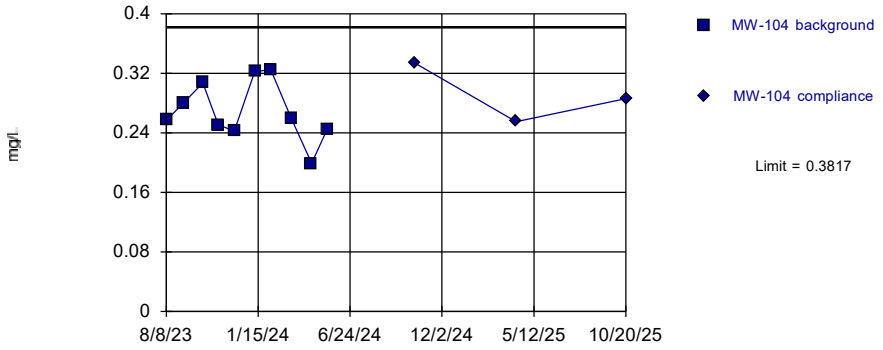
Constituent: Fluoride Analysis Run 10/31/2025 6:47 AM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.2687, Std. Dev.=0.03984, n=10. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9347, critical = 0.781. Kappa = 2.838 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

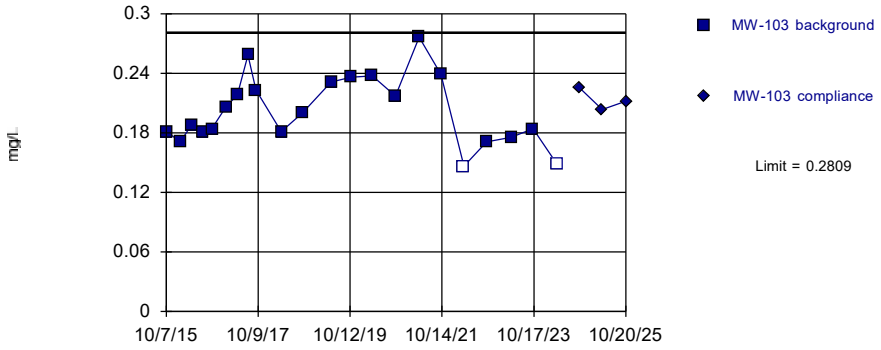
Constituent: Fluoride Analysis Run 10/31/2025 6:47 AM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.2025, Std. Dev.=0.03452, n=22. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9602, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

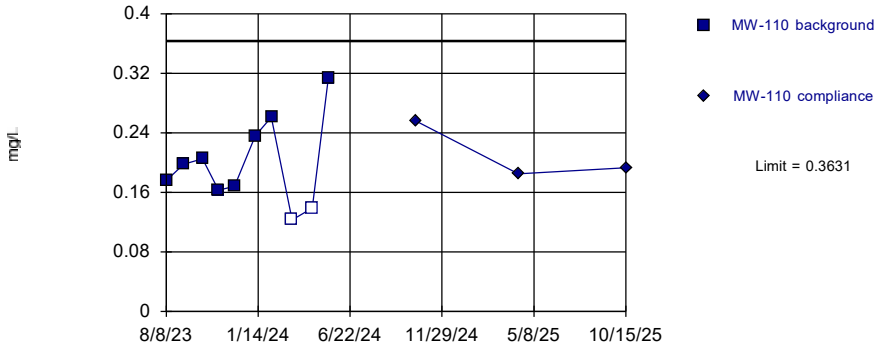
Constituent: Fluoride Analysis Run 10/31/2025 6:47 AM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.1982, Std. Dev.=0.05812, n=10. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9531, critical = 0.781. Kappa = 2.838 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

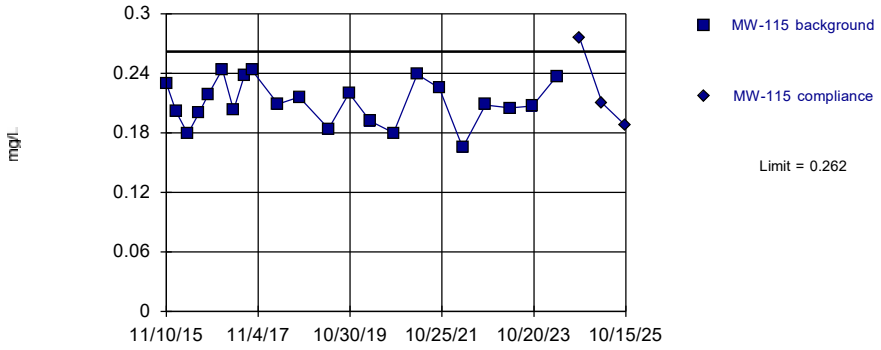
Constituent: Fluoride Analysis Run 10/31/2025 6:47 AM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.211, Std. Dev.=0.02242, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9627, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Fluoride Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

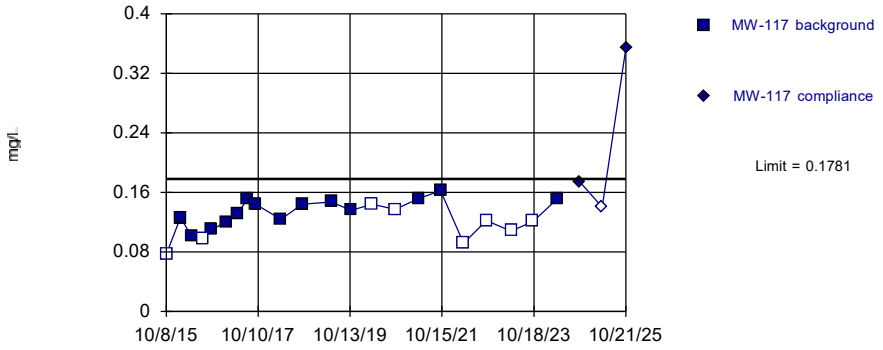
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Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.1271, Std. Dev.=0.02242, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9582, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Fluoride Analysis Run 10/31/2025 6:48 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

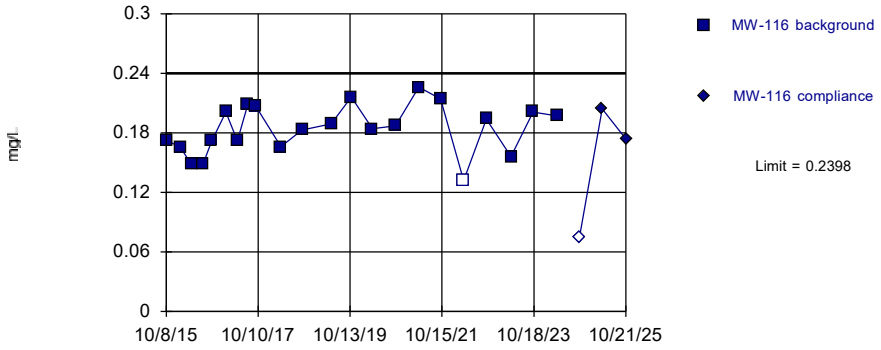
Sanitas™ v.10.1.02 Software licensed to Olsson. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.1836, Std. Dev.=0.02473, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9801, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Fluoride Analysis Run 10/31/2025 6:47 AM View: Prediction Limits

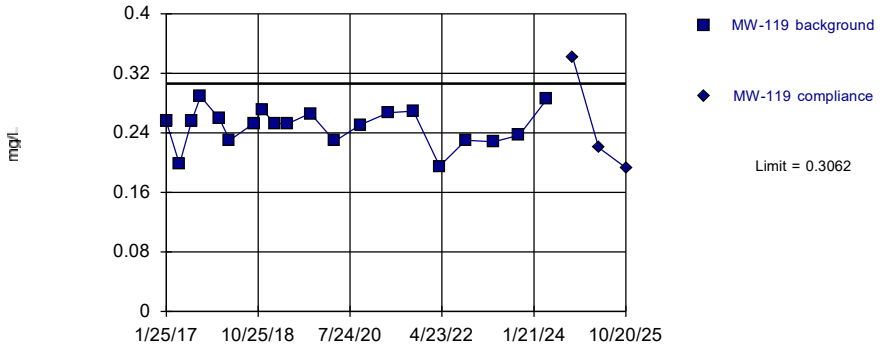
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.2487, Std. Dev.=0.02497, n=20. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9407, critical = 0.868. Kappa = 2.306 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Fluoride Analysis Run 10/31/2025 6:48 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

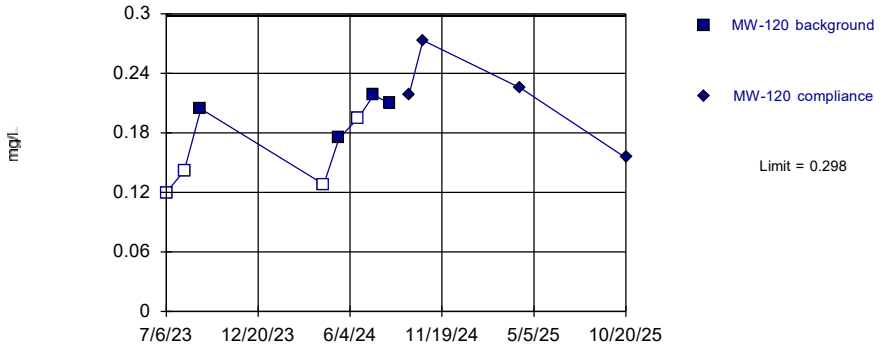
Sanitas™ v.10.1.02 Software licensed to Olsson. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.1739, Std. Dev.=0.03889, n=8. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8909, critical = 0.749. Kappa = 3.193 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Fluoride Analysis Run 10/31/2025 6:48 AM View: Prediction Limits

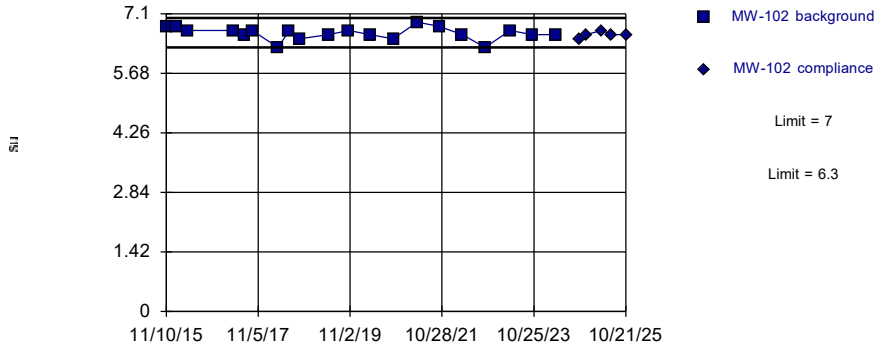
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.635, Std. Dev.=0.1531, n=20. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9112, critical = 0.868. Kappa = 2.306 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 11/7/2025 10:29 AM View: Prediction Limits

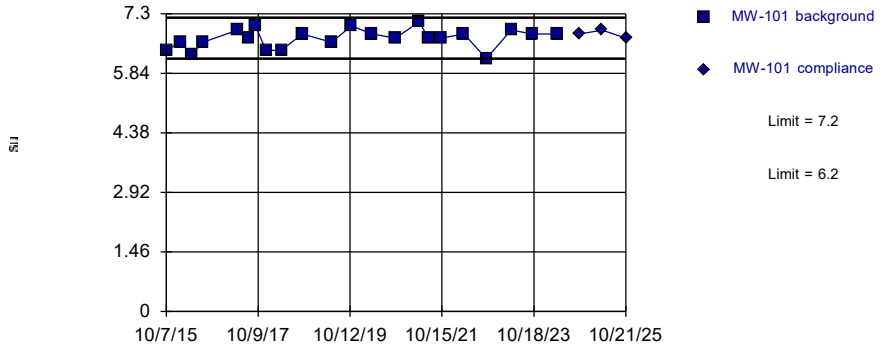
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.691, Std. Dev.=0.2369, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9578, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 11/7/2025 10:29 AM View: Prediction Limits

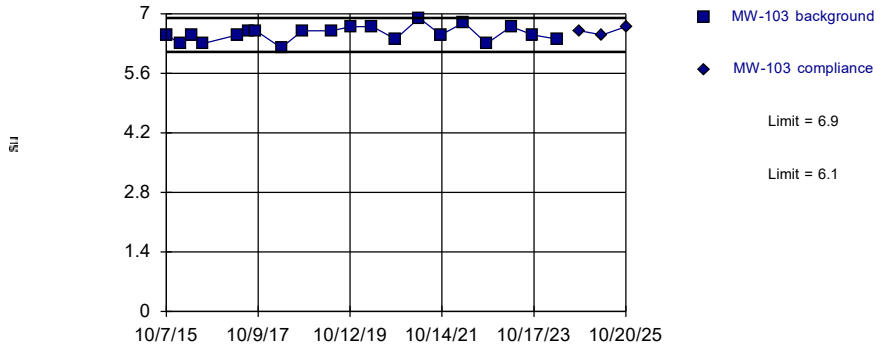
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.53, Std. Dev.=0.1809, n=20. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9698, critical = 0.868. Kappa = 2.306 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

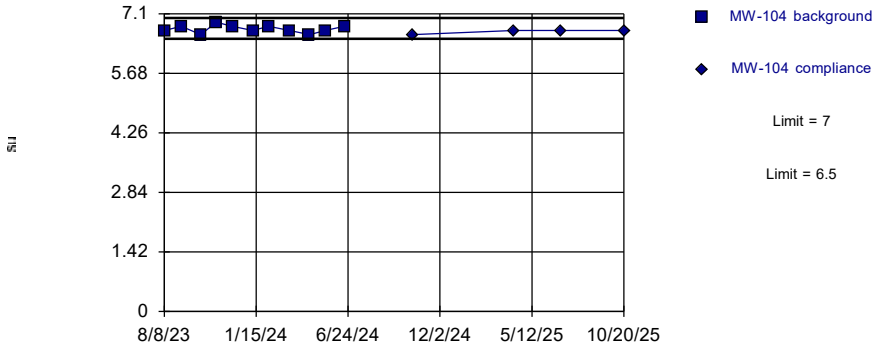
Constituent: pH Analysis Run 11/7/2025 10:29 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.736, Std. Dev.=0.09244, n=11. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9055, critical = 0.792. Kappa = 2.74 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 11/7/2025 10:29 AM View: Prediction Limits

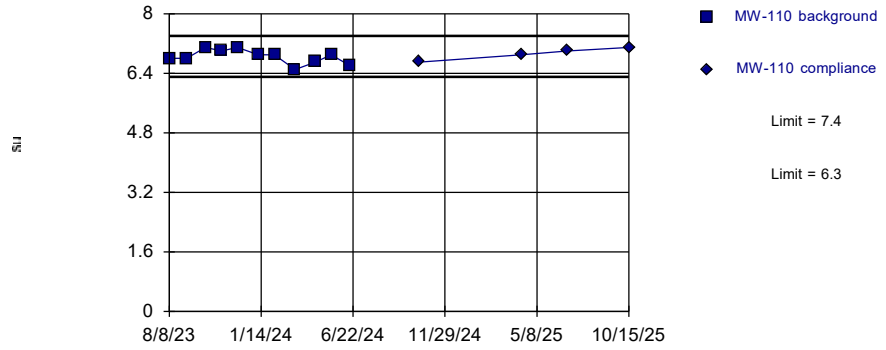
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.845, Std. Dev.=0.1916, n=11. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9505, critical = 0.792. Kappa = 2.74 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 11/7/2025 10:29 AM View: Prediction Limits

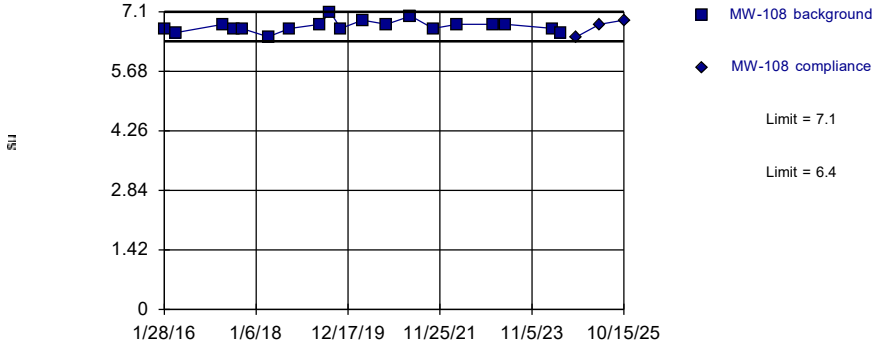
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.02 Software licensed to Olsson. UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.758, Std. Dev.=0.1387, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9145, critical = 0.863. Kappa = 2.334 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 11/7/2025 10:29 AM View: Prediction Limits

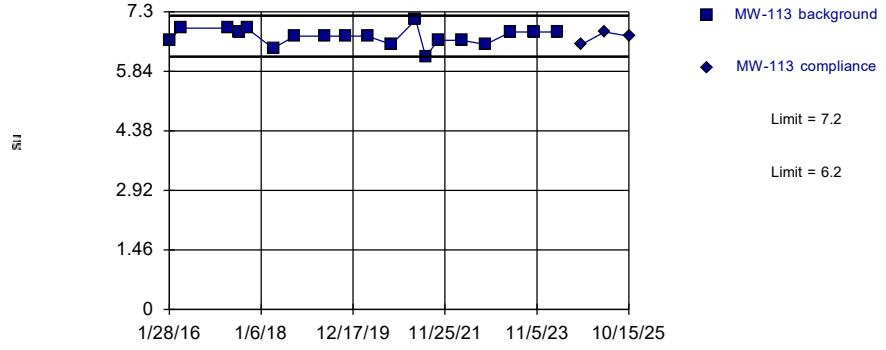
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.02 Software licensed to Olsson. UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.695, Std. Dev.=0.2068, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9659, critical = 0.863. Kappa = 2.334 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

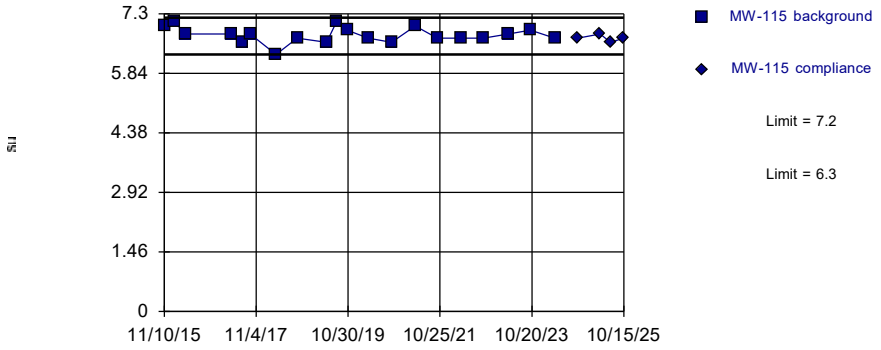
Constituent: pH Analysis Run 11/7/2025 10:29 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.775, Std. Dev.=0.1916, n=20. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9372, critical = 0.868. Kappa = 2.306 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 11/7/2025 10:29 AM View: Prediction Limits

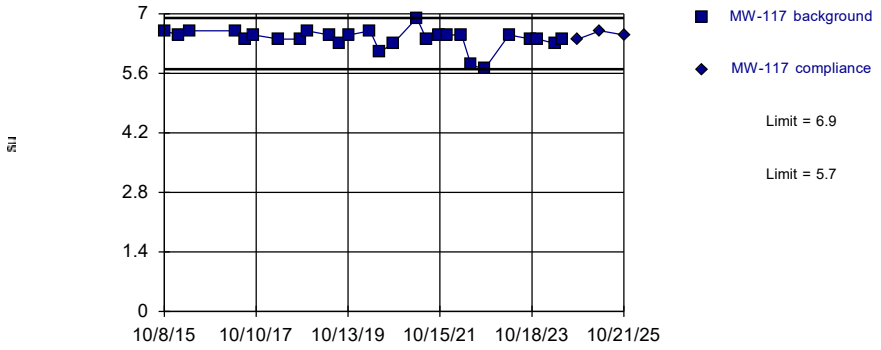
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limits

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 27 background values. Well-constituent pair annual alpha = 0.009996. Individual comparison alpha = 0.005004 (1 of 2). Seasonality was not detected with 95% confidence.

Constituent: pH Analysis Run 11/7/2025 10:29 AM View: Prediction Limits

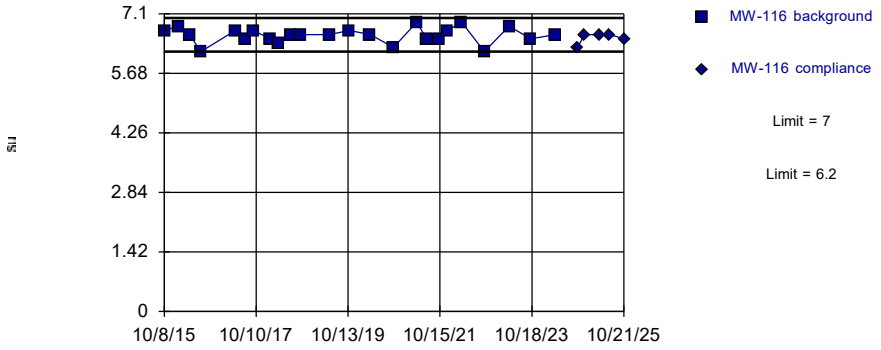
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.588, Std. Dev.=0.1872, n=24. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9417, critical = 0.884. Kappa = 2.237 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 11/7/2025 10:29 AM View: Prediction Limits

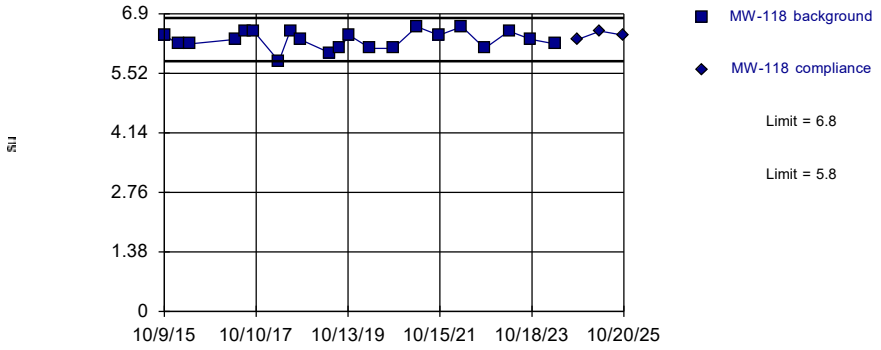
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.02 Software licensed to Olsson. UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.29, Std. Dev.=0.2119, n=21. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9514, critical = 0.873. Kappa = 2.288 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 11/7/2025 10:29 AM View: Prediction Limits

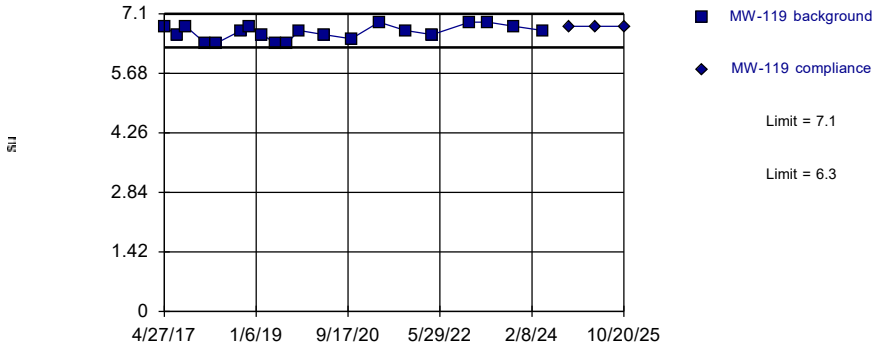
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.02 Software licensed to Olsson. UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.66, Std. Dev.=0.1729, n=20. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.907, critical = 0.868. Kappa = 2.306 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 11/7/2025 10:29 AM View: Prediction Limits

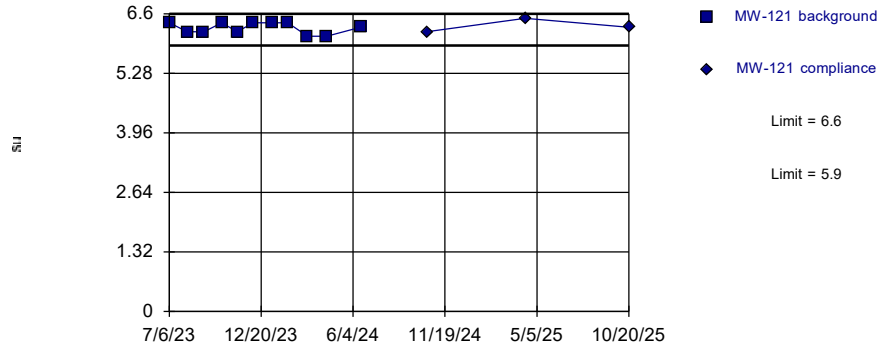
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.282, Std. Dev.=0.125, n=11. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8067, critical = 0.792. Kappa = 2.74 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 11/7/2025 10:29 AM View: Prediction Limits

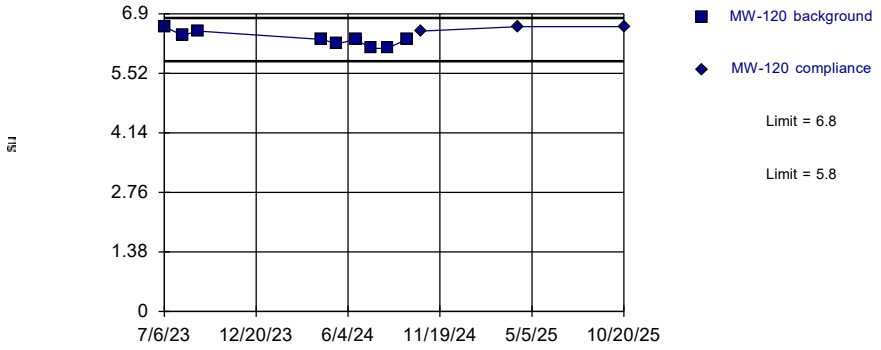
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.311, Std. Dev.=0.1691, n=9. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9393, critical = 0.764. Kappa = 3.015 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 11/7/2025 10:29 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

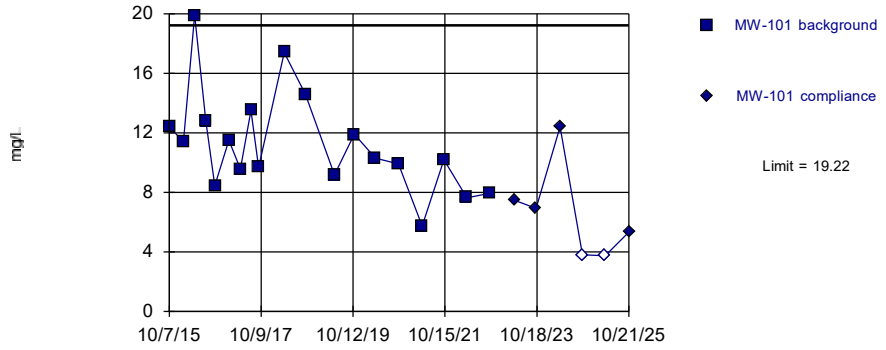
Sanitas™ v.10.1.02 Software licensed to Olsson. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=11.26, Std. Dev.=3.408, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9397, critical = 0.863. Kappa = 2.334 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 10/31/2025 6:48 AM View: Prediction Limits

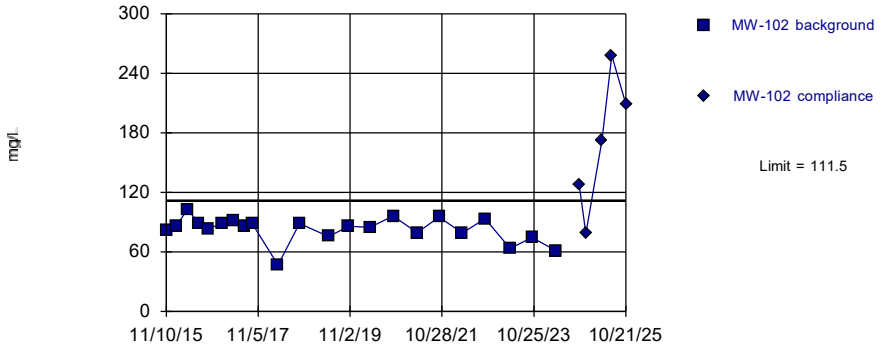
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=82.71, Std. Dev.=12.69, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9027, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

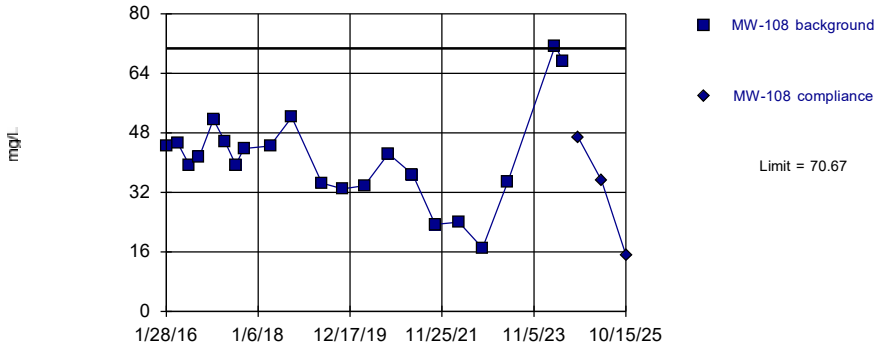
Constituent: Sulfate Analysis Run 10/31/2025 6:48 AM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=41.22, Std. Dev.=12.87, n=21. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9456, critical = 0.873. Kappa = 2.288 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

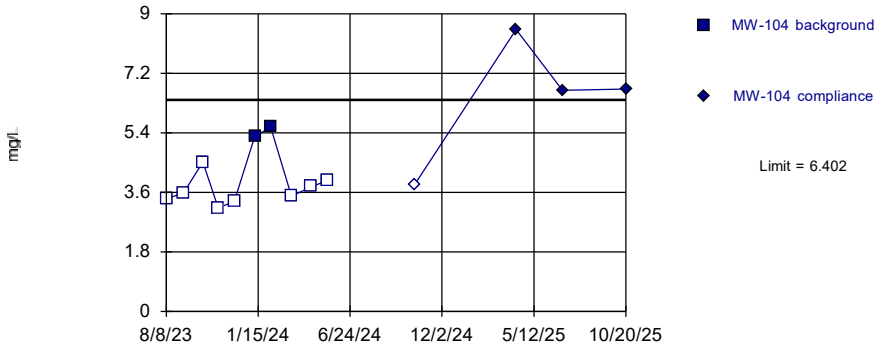
Constituent: Sulfate Analysis Run 10/31/2025 6:48 AM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=4.002, Std. Dev.=0.8458, n=10. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8559, critical = 0.781. Kappa = 2.838 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

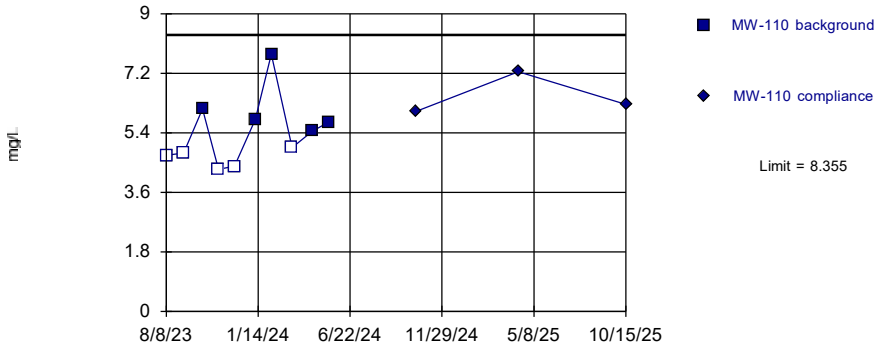
Constituent: Sulfate Analysis Run 11/10/2025 6:44 AM View: Distributional
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.402, Std. Dev.=1.041, n=10. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8866, critical = 0.781. Kappa = 2.838 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

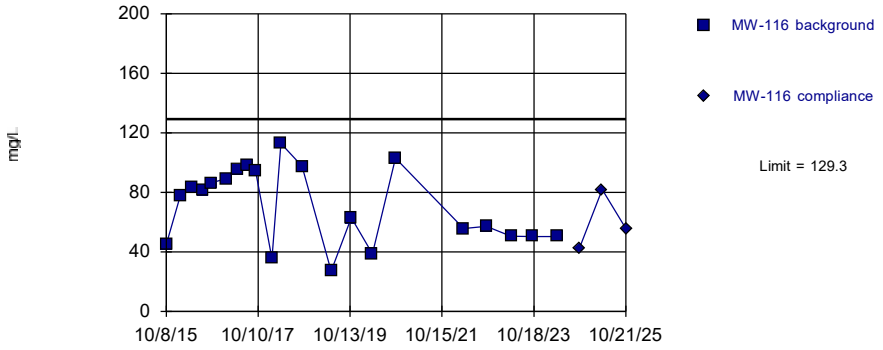
Constituent: Sulfate Analysis Run 10/31/2025 6:48 AM View: Prediction Limits
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=71.13, Std. Dev.=25.42, n=21. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9432, critical = 0.873. Kappa = 2.288 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 10/31/2025 6:48 AM View: Prediction Limits

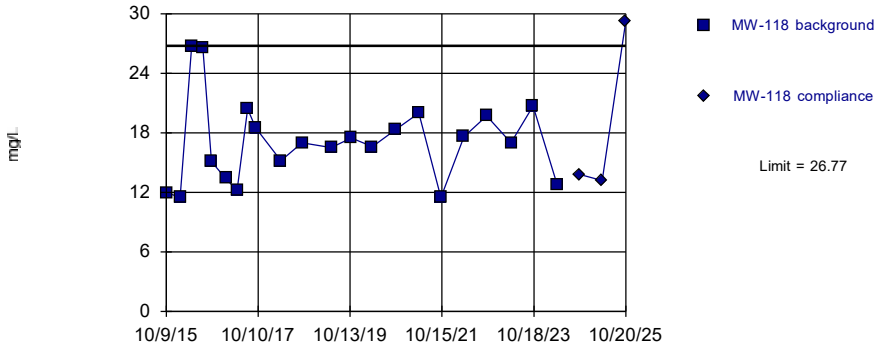
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=17.13, Std. Dev.=4.245, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9212, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 11/10/2025 6:44 AM View: Distributional

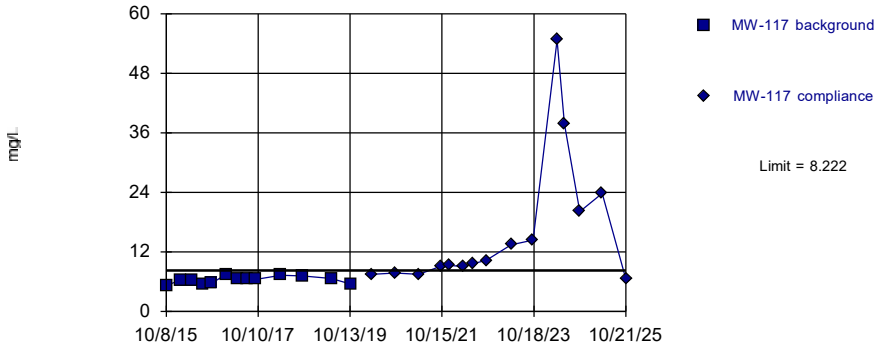
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.343, Std. Dev.=0.7263, n=13. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9459, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 11/10/2025 6:44 AM View: Distributional

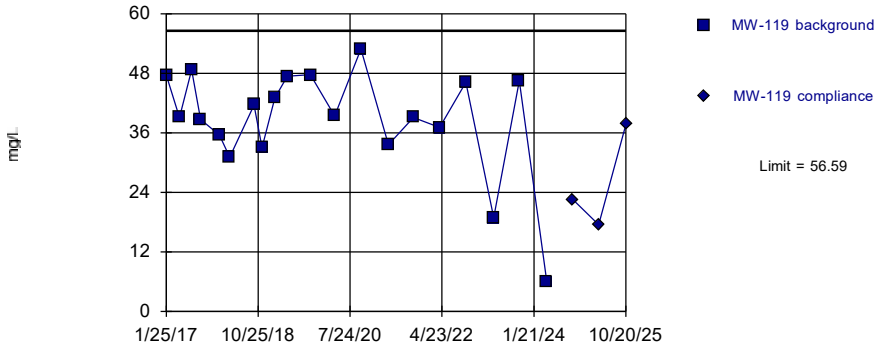
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=1608, Std. Dev.=691.8, n=20. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9604, critical = 0.868. Kappa = 2.306 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 10/31/2025 6:48 AM View: Prediction Limits

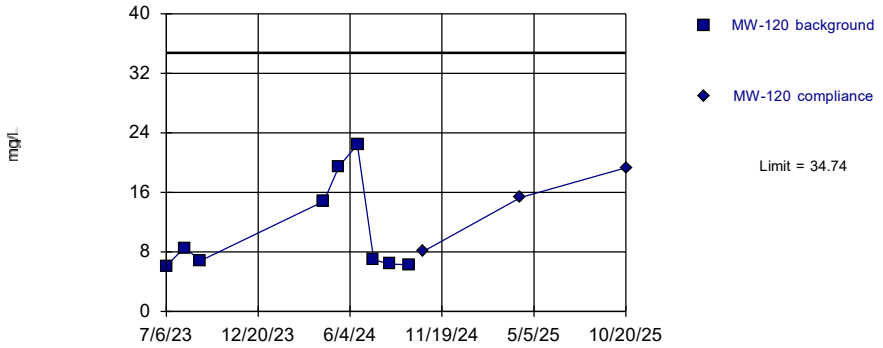
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=3.185, Std. Dev.=0.8987, n=9. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7782, critical = 0.764. Kappa = 3.015 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 10/31/2025 6:48 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

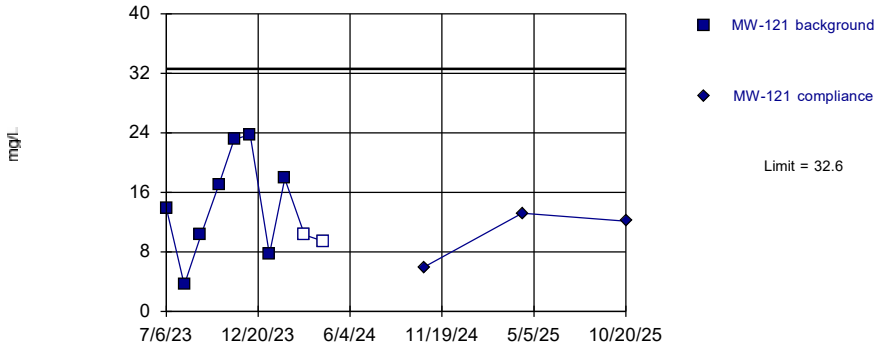
Sanitas™ v.10.1.02 Software licensed to Olsson. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=13.69, Std. Dev.=6.664, n=10. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9474, critical = 0.781. Kappa = 2.838 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 10/31/2025 6:48 AM View: Prediction Limits

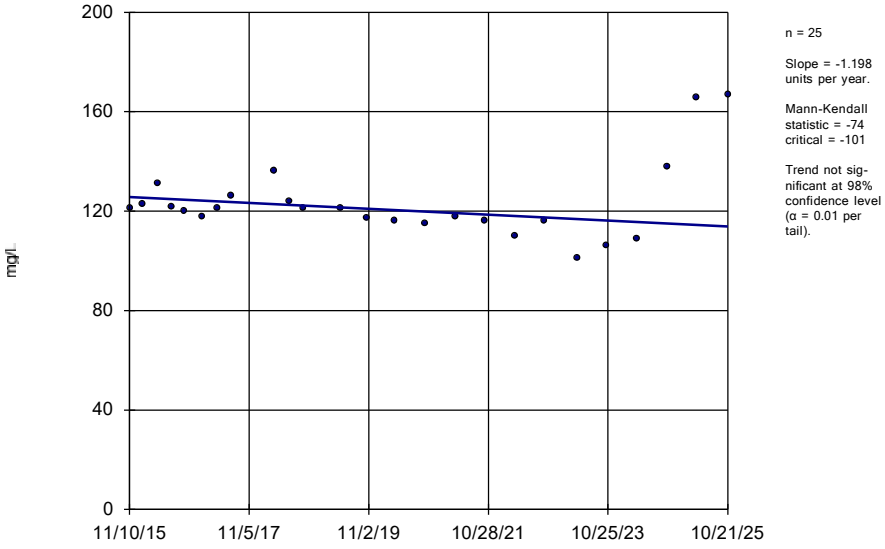
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

TREND TESTS
SECOND HALF 2025 MONITORING EVENT

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Sen's Slope Estimator

MW-102



n = 25

Slope = -1.198 units per year.

Mann-Kendall statistic = -74
critical = -101

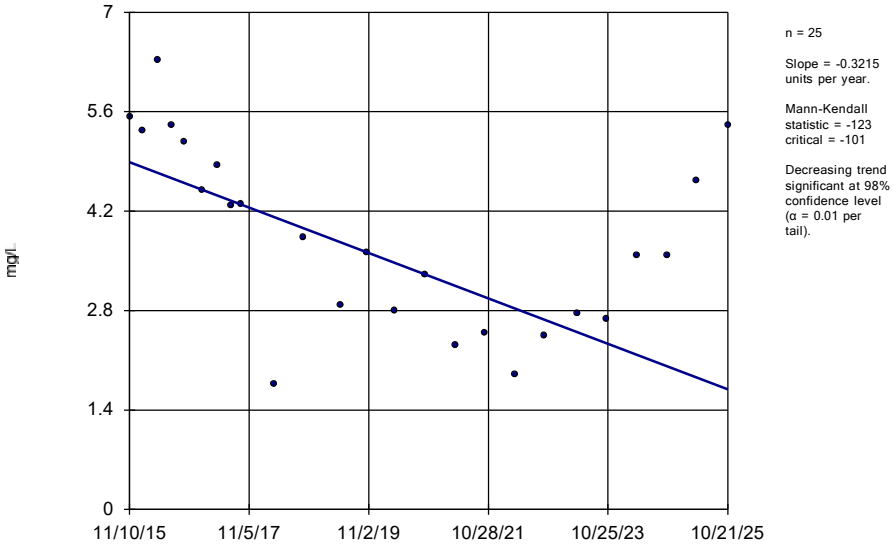
Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Calcium Analysis Run 10/31/2025 7:21 AM View: Trend Tests
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Sen's Slope Estimator

MW-102



n = 25

Slope = -0.3215 units per year.

Mann-Kendall statistic = -123
critical = -101

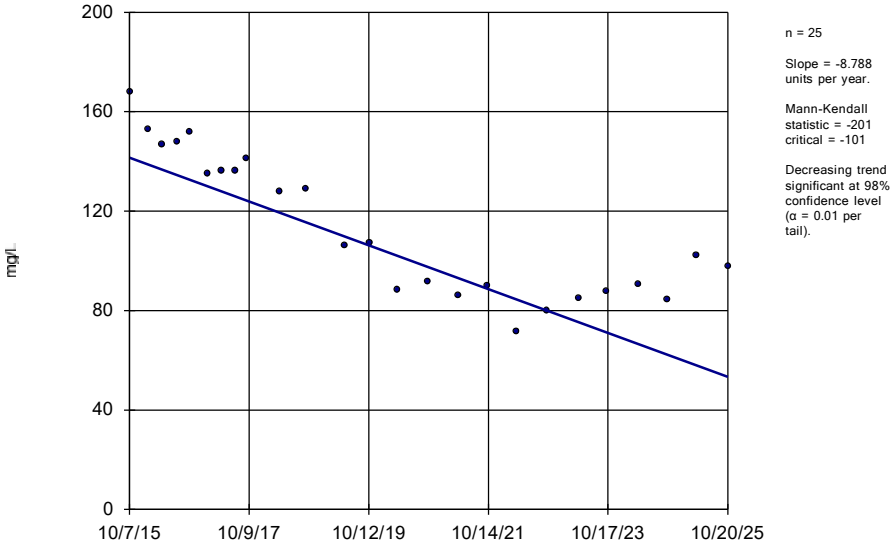
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chloride Analysis Run 10/31/2025 7:21 AM View: Trend Tests
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Sen's Slope Estimator

MW-103



n = 25

Slope = -8.788 units per year.

Mann-Kendall statistic = -201
critical = -101

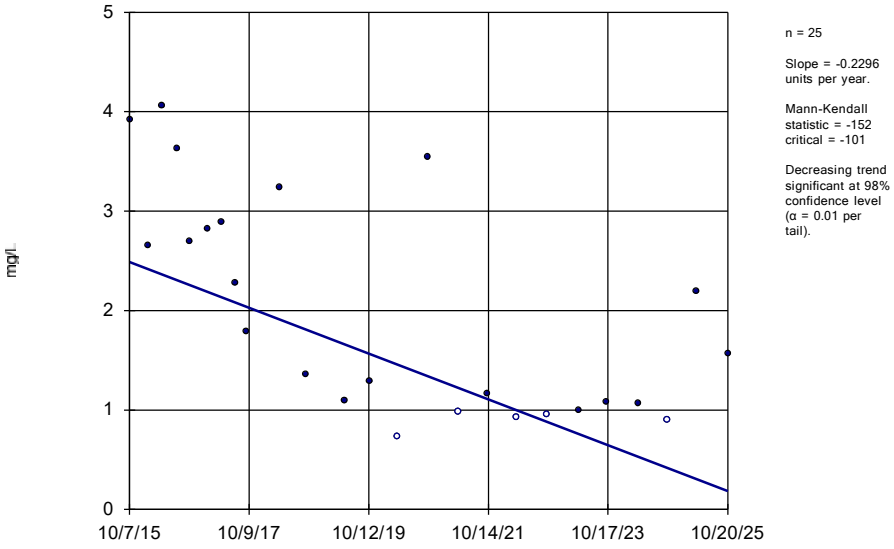
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Calcium Analysis Run 10/31/2025 7:21 AM View: Trend Tests
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-103



n = 25

Slope = -0.2296 units per year.

Mann-Kendall statistic = -152
critical = -101

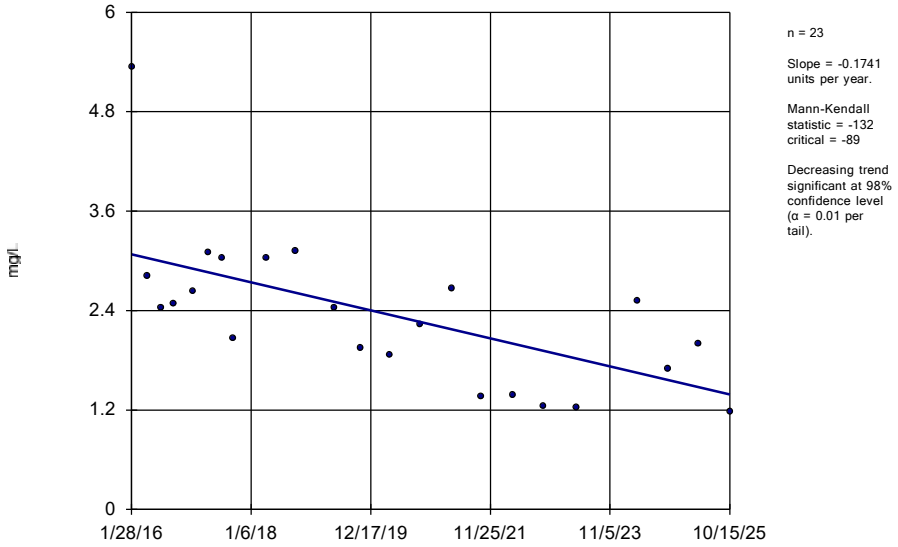
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chloride Analysis Run 10/31/2025 7:21 AM View: Trend Tests
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Sen's Slope Estimator

MW-108 (bg)



n = 23

Slope = -0.1741 units per year.

Mann-Kendall statistic = -132
critical = -89

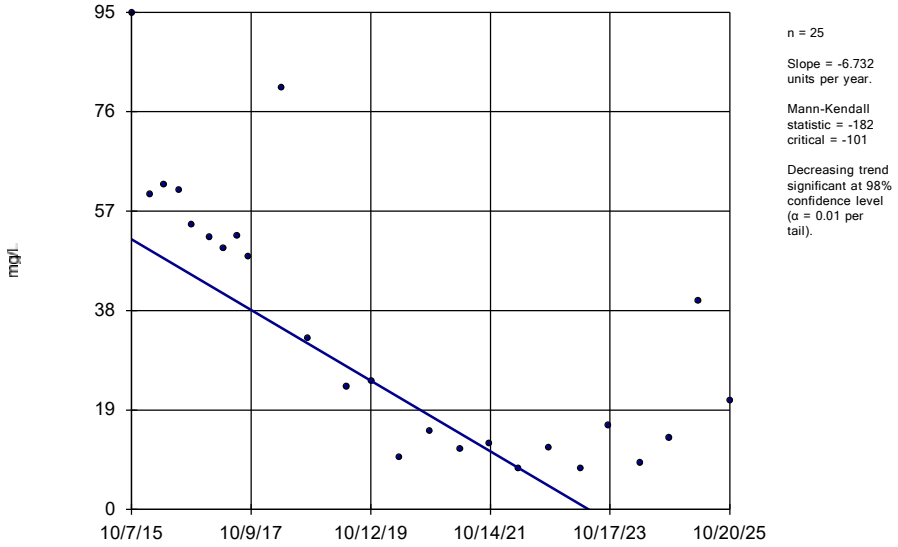
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chloride Analysis Run 10/31/2025 7:21 AM View: Trend Tests
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Sen's Slope Estimator

MW-103



n = 25

Slope = -6.732 units per year.

Mann-Kendall statistic = -182
critical = -101

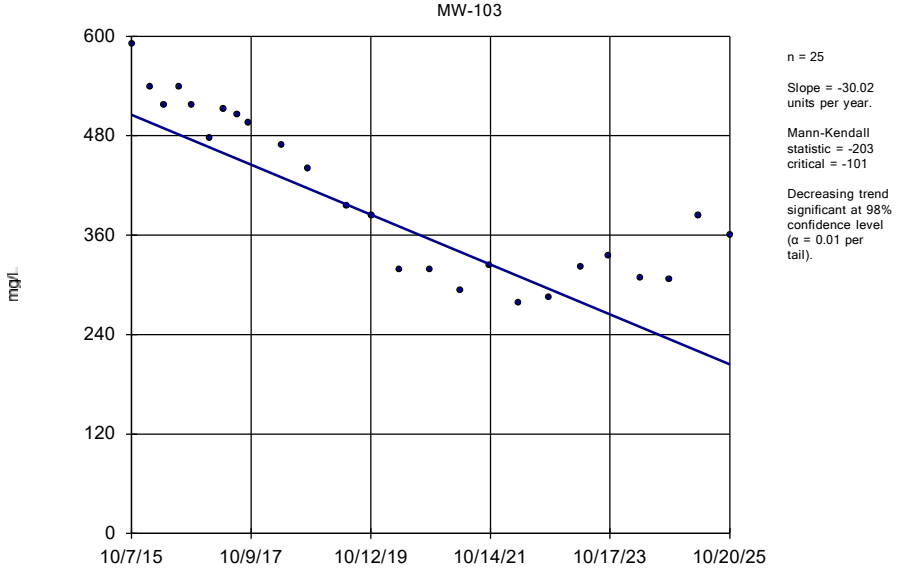
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sulfate Analysis Run 10/31/2025 7:21 AM View: Trend Tests
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Sen's Slope Estimator

MW-103



n = 25

Slope = -30.02 units per year.

Mann-Kendall statistic = -203
critical = -101

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

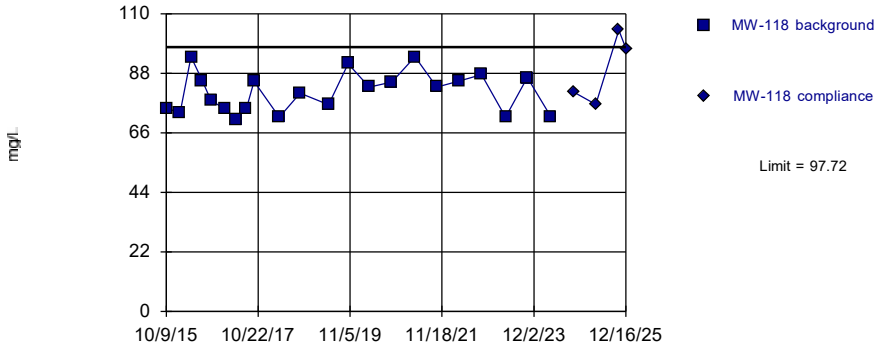
Constituent: Dissolved Solids Analysis Run 10/31/2025 7:21 AM View: Trend Tests
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

PREDICTION LIMITS
SECOND HALF 2025 VERIFICATION SAMPLING EVENT

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=80.9, Std. Dev.=7.405, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9248, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Calcium Analysis Run 12/31/2025 11:42 AM View: Prediction Limits

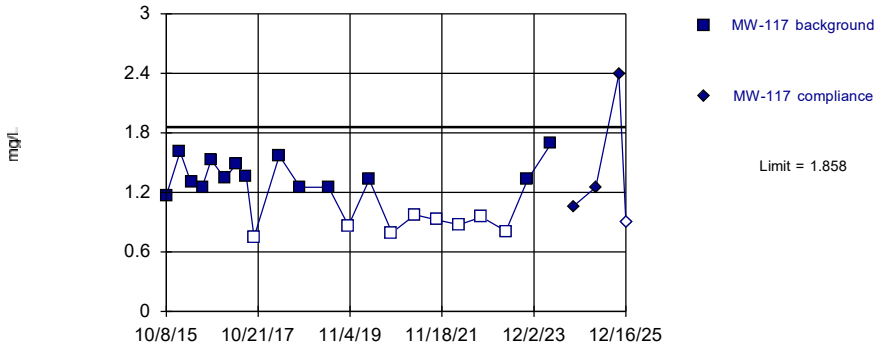
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.2, Std. Dev.=0.2897, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9385, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

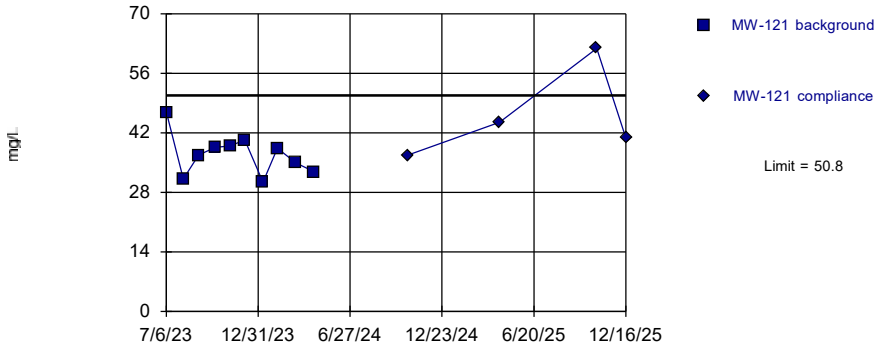
Constituent: Chloride Analysis Run 12/31/2025 11:42 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=36.91, Std. Dev.=4.894, n=10. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9463, critical = 0.781. Kappa = 2.838 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

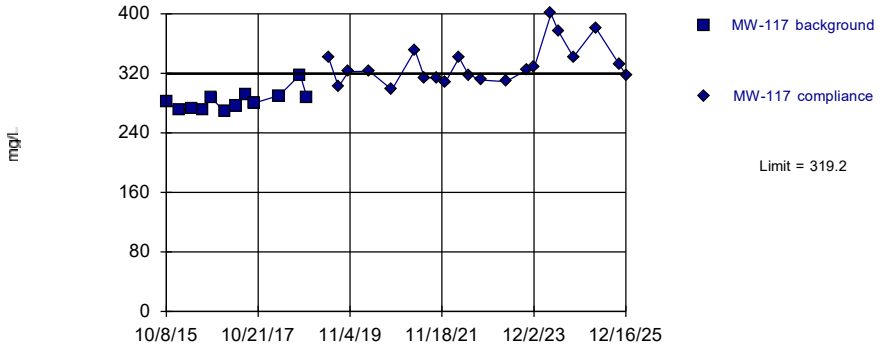
Constituent: Calcium Analysis Run 12/31/2025 11:42 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=282.9, Std. Dev.=13.75, n=12. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.861, critical = 0.805. Kappa = 2.643 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

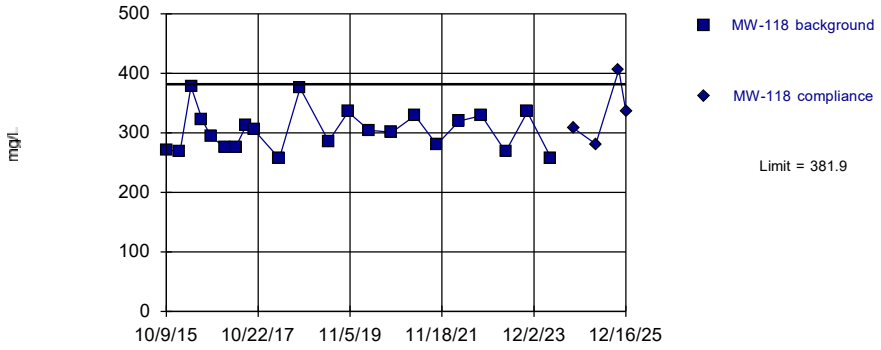
Constituent: Dissolved Solids Analysis Run 12/31/2025 11:42 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=303.6, Std. Dev.=34.45, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9357, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Dissolved Solids Analysis Run 12/31/2025 11:42 AM View: Prediction Limits

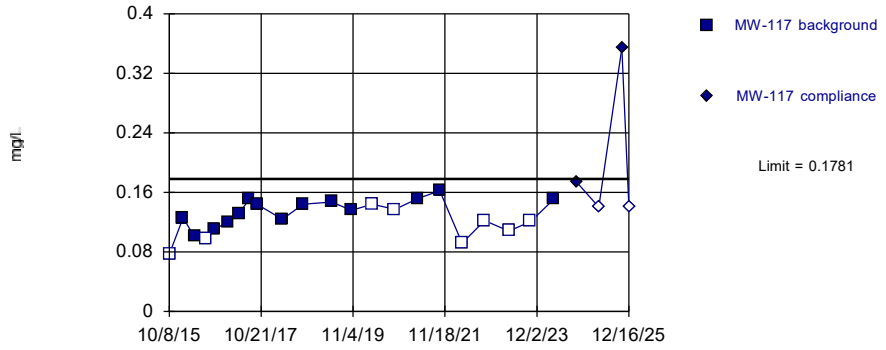
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.1271, Std. Dev.=0.02242, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9582, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

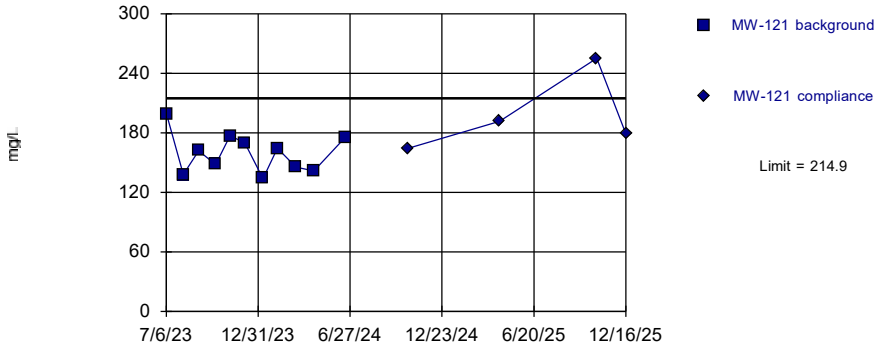
Constituent: Fluoride Analysis Run 12/31/2025 11:42 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=159.6, Std. Dev.=20.17, n=11. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9432, critical = 0.792. Kappa = 2.74 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

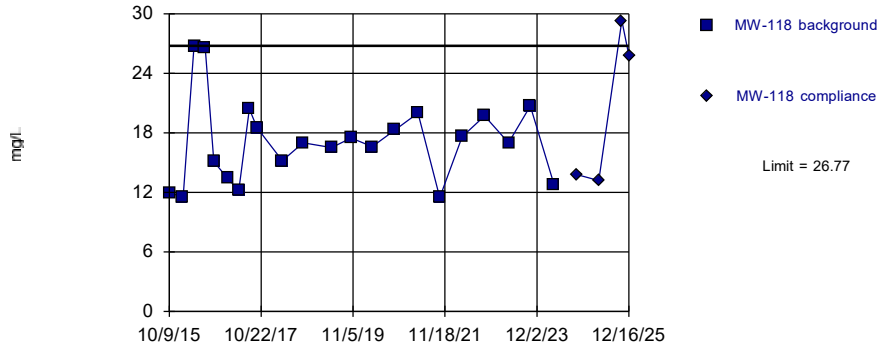
Constituent: Dissolved Solids Analysis Run 12/31/2025 11:42 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=17.13, Std. Dev.=4.245, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9212, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 12/31/2025 11:42 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

APPENDIX H
ALTERNATE SOURCE DEMONSTRATIONS

ALTERNATE SOURCE DEMONSTRATION FOR FIRST HALF 2025 STATISTICALLY SIGNIFICANT RESULTS

MEMO

To:	Plum Point Services Company, LLC Attn: Mr. Matt Gray 2732 South County Road 623 Osceola, AR 72370
From:	Melissa Vaught, PE Andrew Pruitt, PG
RE:	Alternate Source Demonstration for Statistically Significant Increases, First Half of 2025 Monitoring Period, Plum Point Energy Station Landfill
Date:	October 8, 2025
Project #:	A24-01343

Olsson has prepared this technical memorandum for the Plum Point Services Company, LLC (PPSC), coal combustion residuals (CCR) landfill, which is regulated by the US Environmental Protection Agency (EPA) Coal Combustion Residuals Rule, promulgated in Title 40 of the Code of Federal Regulations (40 CFR), Part 257. The landfill is also regulated by Title 8, Part 60 of the Code of Arkansas Rules (8 CAR 60) and permitted by the Arkansas Department of Energy & Environment, Division of Environmental Quality (DEQ), under permit no. 0303-S3N-R2.

Olsson performed groundwater sampling and statistical analysis of the data for the first half of 2025 monitoring period. Based on statistical evaluation of the data, eleven confirmed statistically significant increases (SSIs) over background concentrations were identified. Pursuant to §257.94(e)(2), the landfill may demonstrate that a source other than the CCR unit caused an SSI over background levels for a constituent or that an SSI resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. This memorandum, hereafter referred to as an alternate source demonstration (ASD), presents evidence that the confirmed SSIs are the result of off-site influence and/or natural fluctuations in groundwater quality.

1. BACKGROUND

Olsson performed groundwater sampling for the first half 2025 semiannual groundwater monitoring period during April 2025. Sample collection, preservation, shipment, analytical procedures, chain-of-custody control, and data quality control for this sampling event followed protocol outlined in the landfill's groundwater sampling and analysis plan (GWSAP) (FTN Associates, Ltd. [FTN] 2017b). Statistical evaluation of the data set followed the most recent EPA guidance (EPA 2009) and the landfill's statistical analysis plan (SAP) (FTN 2017c). An intrawell prediction limit evaluation identified three previously confirmed SSIs for calcium, sulfate and total dissolved solids (TDS) at MW-117, and nine unverified SSIs for boron, sulfate and TDS at MW-102, chloride and sulfate at MW-104, TDS at MW-110, sulfate at background well MW-115, and calcium and TDS at MW-116. A site map showing the locations of the wells with confirmed and unverified SSIs relative to the CCR unit (cells 1 through 3) is included as Figure 1 (all figures are included in Attachment 1).

Verification sampling for the nine unverified SSIs was performed on July 1 and 2, 2025, in accordance with the GWSAP and SAP (FTN 2017b, 2017c). Intrawell prediction limit plots showing the results of verification sampling are included in Attachment 2. As shown on the prediction limit plots in Attachment 2 and in Table 1 (Attachment 3), results from verification sampling exceeded the prediction limits confirming the SSIs for

boron, sulfate and TDS at MW-102, chloride and sulfate at MW-104, TDS at MW-110, and calcium and TDS at MW-116. The potential exceedance for sulfate at background well MW-115 was below the prediction limit and was not a confirmed SSI.

In accordance with §257.94(e)(2), prior ASDs have been prepared for the previously confirmed SSIs at MW-117 for calcium, sulfate and TDS as summarized in Table 2 (Attachment 3). Each ASD successfully demonstrated that the SSIs were not the result of influence from the CCR unit.

The laboratory reports for the April and July sampling events are included in Attachment 4.

2. DISCUSSION

A review of the monitoring system with respect to onsite background wells, background groundwater quality, published literature, and landfill leachate quality was performed to determine if the confirmed SSIs were indicative of a release from the CCR unit. Findings from this review are discussed below.

2.1 Monitoring System Background Wells

As required by §257.91(c)(1), the groundwater monitoring network is required to contain a minimum of one monitoring well that is hydraulically upgradient of the CCR management area for the purpose of monitoring background water quality. However, there is not a hydraulically upgradient location at this facility because the direction of groundwater flow is seasonably variable. As allowed by §257.91(a)(1), a facility may utilize wells for background water quality that are not hydraulically upgradient of the CCR unit. For this reason, the facility incorporated monitoring wells MW-108, MW-113, and MW-115 (Figure 1) to monitor background water quality because those wells are positioned outside the potential zone of impact from the CCR unit. The rationale for this is based on the age of the landfill; the estimated maximum rate of groundwater flow; and the distance of MW-108, MW-113, and MW-115 from the CCR unit. Specifically:

- MW-108, MW-113, and MW-115 are located more than 2,300 ft from the eastern edge of cell 3;
- Groundwater at the landfill has historically exhibited a maximum flow rate of 49 ft/year; and
- The landfill became active during March 2010.

Using the information available above, a potential leachate plume would not be expected to have migrated more than 752 ft from the CCR unit as of the first half 2025 monitoring event. This estimate is conservative for the following reasons:

1. It assumes impact to groundwater occurred at the same time cell 1 was activated (March 2010) and does not account for travel time through the confining unit soils;
2. It assumes that groundwater flows in one direction; however, it is well-documented that groundwater flow at the landfill is multidirectional and reverses flow on a seasonal basis (FTN 2017a); and
3. It does not account for any physical or chemical properties of the constituents of concern that would cause them to travel at rates slower than groundwater (e.g., adsorption).

2.2 Comparison to Onsite Background Groundwater Quality

Table 1 (Attachment 3) summarizes select groundwater quality data from onsite background wells, MW-108, MW-113 and MW-115. As shown in Table 1, measured values for the confirmed SSIs identified in the first half of 2025 monitoring period are generally lower than onsite background values. This

comparison provides supporting evidence that the SSIs identified at compliance wells (boron, sulfate, and TDS at MW-102, chloride and sulfate at MW-104, TDS at MW-110, calcium and TDS at MW-116 and calcium, sulfate and TDS at MW-117), reflect offsite influence and/or natural fluctuations in groundwater quality.

2.3 Comparison to Published Groundwater Quality for the Aquifer

Each monitoring well is screened in the Mississippi River Valley alluvial aquifer, the uppermost aquifer in the vicinity of the landfill (FTN 2017b). The United States Geological Survey published a study of groundwater quality of the aquifer, specifically with respect to that of Holocene alluvium and Pleistocene valley train deposits, which are two of the major hydrogeologic units within the aquifer (Gonthier 2003). The landfill is located in Holocene alluvium, as shown on Figure 2 (Attachment 1). According to this study, wells screened in Holocene alluvium had maximum measured concentrations of 130 mg/L for calcium, 140 mg/L for chloride, 120 mg/L for sulfate, and 728 mg/L for TDS. As shown in Table 1 (Attachment 3), published levels for the aquifer are generally above the measured values for the confirmed SSIs. Measured values for calcium are higher than published values; however, onsite background values are also higher, as shown in Table 1. This comparison provides supporting evidence that the currently measured values for sulfate and TDS at MW-102, chloride and sulfate at MW-104, TDS at MW-110, calcium and TDS at MW-116, and calcium, sulfate and TDS at MW-117 reflect natural fluctuations in groundwater quality.

2.4 Comparison to Landfill Leachate

The major ion composition of leachate and groundwater samples collected during April 2025 was evaluated using the Stiff and Piper diagrams included in Attachment 2. These data are collected on a semiannual basis for the landfill's APCEC 8 CAR 60 monitoring program, as required by permit no. 0303-S3N-R2, and are publicly available on the DEQ website[1]. If groundwater has been impacted by landfill leachate, the relative proportions of major ions in groundwater will resemble those in leachate.

A review of the Stiff diagrams shows that the ionic distribution in groundwater at MW-102, MW-104, MW-110, MW-116 and MW-117 is similar to the ionic distribution at background wells MW-108, MW-113, and MW-115. In contrast, the leachate diagram is distinctly different. Specifically, the leachate sample exhibits concentrations of sodium, potassium, and sulfate ions that are comparatively absent in groundwater. The Piper diagram also illustrates the dissimilarity of groundwater quality to leachate, with data for background wells MW-108, MW-113, and MW-115 and compliance wells MW-102, MW-104, MW-110, MW-116 and MW-117 clustered in the quadrant classified as calcium-bicarbonate-type waters and positioned apart from the leachate data, which is located in the sodium-chloride-type water. If leachate was mixing with groundwater at MW-102, MW-104, MW-110, MW-116 and MW-117, the data for those wells would plot at an intermediate distance between the leachate data and the data for background wells MW-108, MW-113, and MW-115 on the diamond-shaped field of the Piper diagram.

The Stiff and Piper diagrams show that the relative proportions of major ions in groundwater at compliance wells MW-102, MW-104, MW-110, MW-116 and MW-117 are different than landfill leachate, providing a key line of evidence that the confirmed SSIs for boron, sulfate and TDS at MW-102, chloride and sulfate at MW-104, TDS at MW-110, calcium and TDS at MW-116, and calcium, sulfate and TDS at MW-117 are not due to a release from the CCR unit.

[1] https://www.adeq.state.ar.us/sw/permits/facility_data.aspx

3. CONCLUSIONS

In consideration of the information presented in this memorandum, Olsson concludes that the confirmed SSIs for boron, sulfate and TDS at MW-102, chloride and sulfate at MW-104, TDS at MW-110, calcium and TDS at MW-116, and calcium, sulfate and TDS at MW-117 are the result of off-site influence and/or natural fluctuations in groundwater quality.

This memorandum serves as the ASD prepared in accordance with §257.94(e)(2) and supports the position that the confirmed SSIs for boron, sulfate and TDS at MW-102, chloride and sulfate at MW-104, TDS at MW-110, calcium and TDS at MW-116, and calcium, sulfate and TDS at MW-117 are not due to a release from the CCR unit. Therefore, no further action is required, and the landfill will remain in detection monitoring.

If you have questions or comments regarding this memorandum, please do not hesitate to call Andrew Pruitt, PG, at 501.225.7779, or Melissa Vaught, PE, at 479.443.3404.

REFERENCES

EPA [US Environmental Protection Agency]. 2009. *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance* [EPA 530-R-09-007]. Washington, DC: Office of Resource Conservation and Recovery, Program Implementation and Information Division, US Environmental Protection Agency. March 2009.

FTN [FTN Associates, Ltd.]. 2017a. *Groundwater Monitoring Network Evaluation, Plum Point Energy Station Landfill*. Little Rock, AR: FTN Associates, Ltd.

———. 2017b. *Groundwater Sampling and Analysis Plan, Plum Point Energy Station Landfill*. Little Rock, AR: FTN Associates, Ltd.

———. 2017c. *Statistical Analysis Plan, Plum Point Energy Station Landfill.* Little Rock, AR: FTN Associates, Ltd.

Gonthier, G.J. 2003. *Quality of Groundwater in Pleistocene and Holocene Subunits of the Mississippi River Alluvial Aquifer, 1998* [Water-Resources Investigations Report 03-4202]. Jackson, MS: National Water-Quality Assessment Program, US Geological Survey.

Kresse, T.M., P.D. Hays, K.R. Merriman, J.A. Gillip, D.T. Fugitt, J.L. Spellman, A.M. Nottmeier, D.A. Westerman, J.M. Blackstock, and J.L. Battreal. 2014. *Aquifers of Arkansas—Protection, Management, and Hydrologic and Geochemical Characteristics of Groundwater Resources in Arkansas* [Scientific Investigations Report 2014–5149]. Prepared in cooperation with the Arkansas Natural Resources Commission. Reston, VA: US Geological Survey. 334 pp. doi: http://dx.doi.org/10.3133/sir20145149.

PROFESSIONAL ENGINEER'S CERTIFICATION

With this certification, I certify that I, as a professional engineer in the state of Arkansas, am a qualified professional engineer as defined in §257.53 of Title 40 of the Code of Federal Regulations (CFR), Part 257, that this technical memorandum has been prepared under my direction in accordance with generally accepted good engineering practices, that the findings are accurate to the best of my knowledge, and that the alternate source demonstration described herein meets the requirements of §257.94(e)(2) of 40 CFR Part 257.

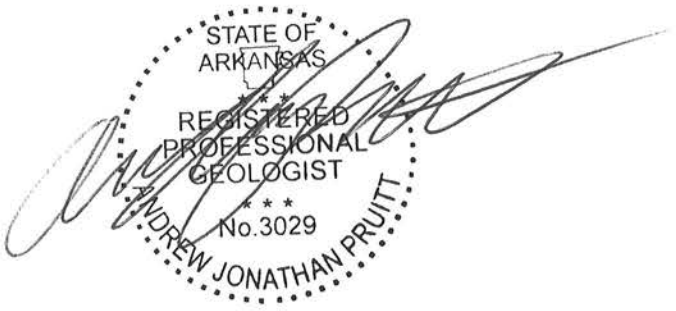


Melissa M. Vaught, Arkansas PE #18259
Arkansas Certificate of Authorization No: 1010

10/8/2025
Date

PROFESSIONAL GEOLOGIST'S CERTIFICATION

With this certification, I certify that I, as a professional geologist in the state of Arkansas, am a qualified groundwater scientist as defined in §60-1201(f) of Title 8, Part 60 of the Code of Arkansas Rules, that I have reviewed this technical memorandum, that the findings are accurate to the best of my knowledge, and that the alternate source demonstration described herein meets the requirements of §257.94(e)(2) of 40 CFR Part 257.



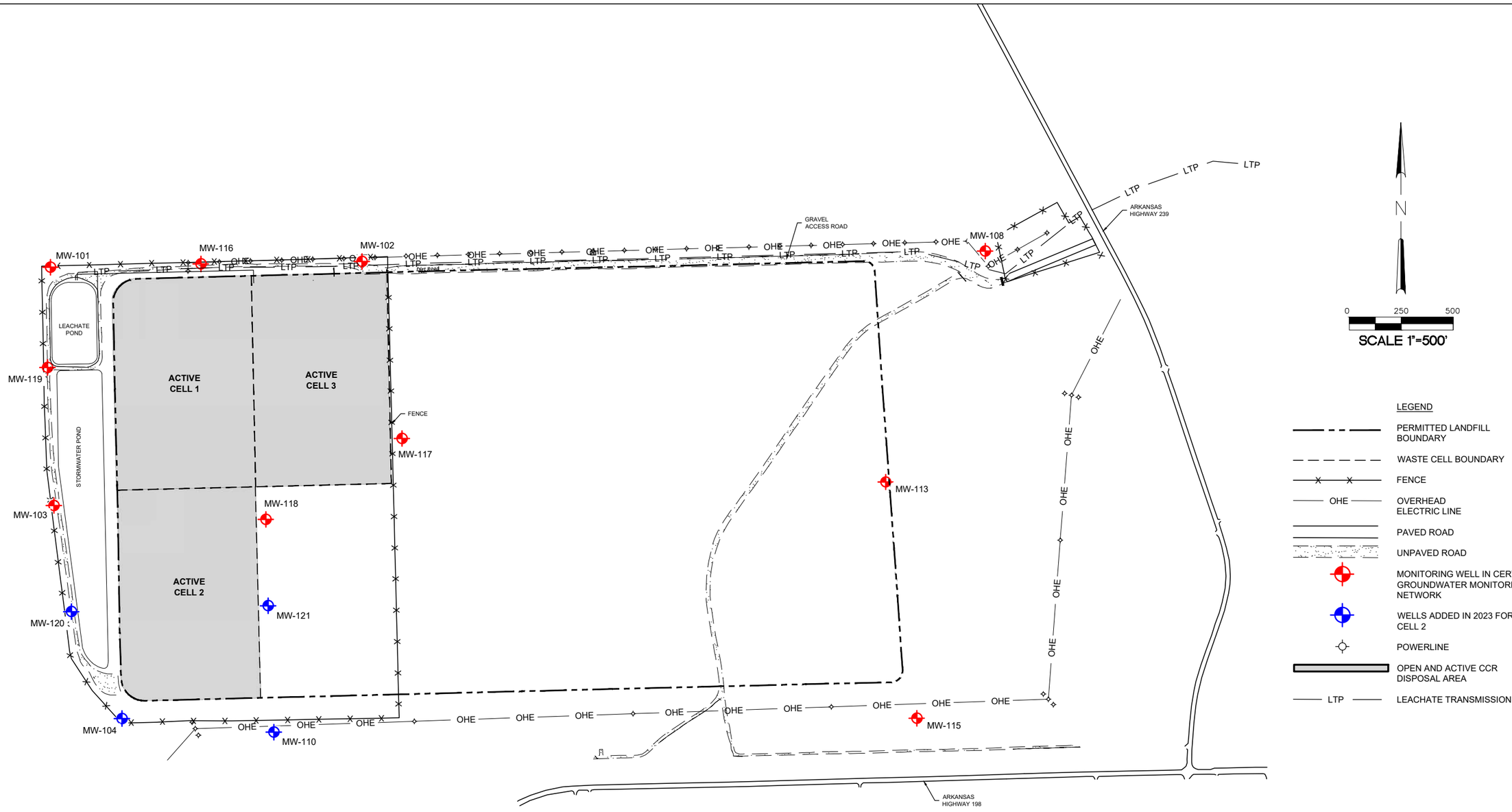
Andrew J. Pruitt, Arkansas PG #3029

10/8/2025

Date

3 Innwood Circle / Suite 220 / Little Rock, AR 72211
O 501.225.7779 / olsson.com

ATTACHMENT 1
FIGURES



R:\projects\14590-3336-001\cad\dwg\EPA\2H2024 ASD\14590-3336-001-EPA-2h2024 ASD-FG01.dwg
DATE: Jan 14, 2025 2:43pm USER: jtorres

PROJECT NO:	024-01343
DRAWN BY:	JT
DATE:	11.15.2024

Figure 1. Monitoring well location map.

olsson
3 Innwood Circle
Suite 220
Little Rock, AR 72211
olsson.com
TEL 501.225.7779
Olsson - Engineering
Arkansas COA #1010

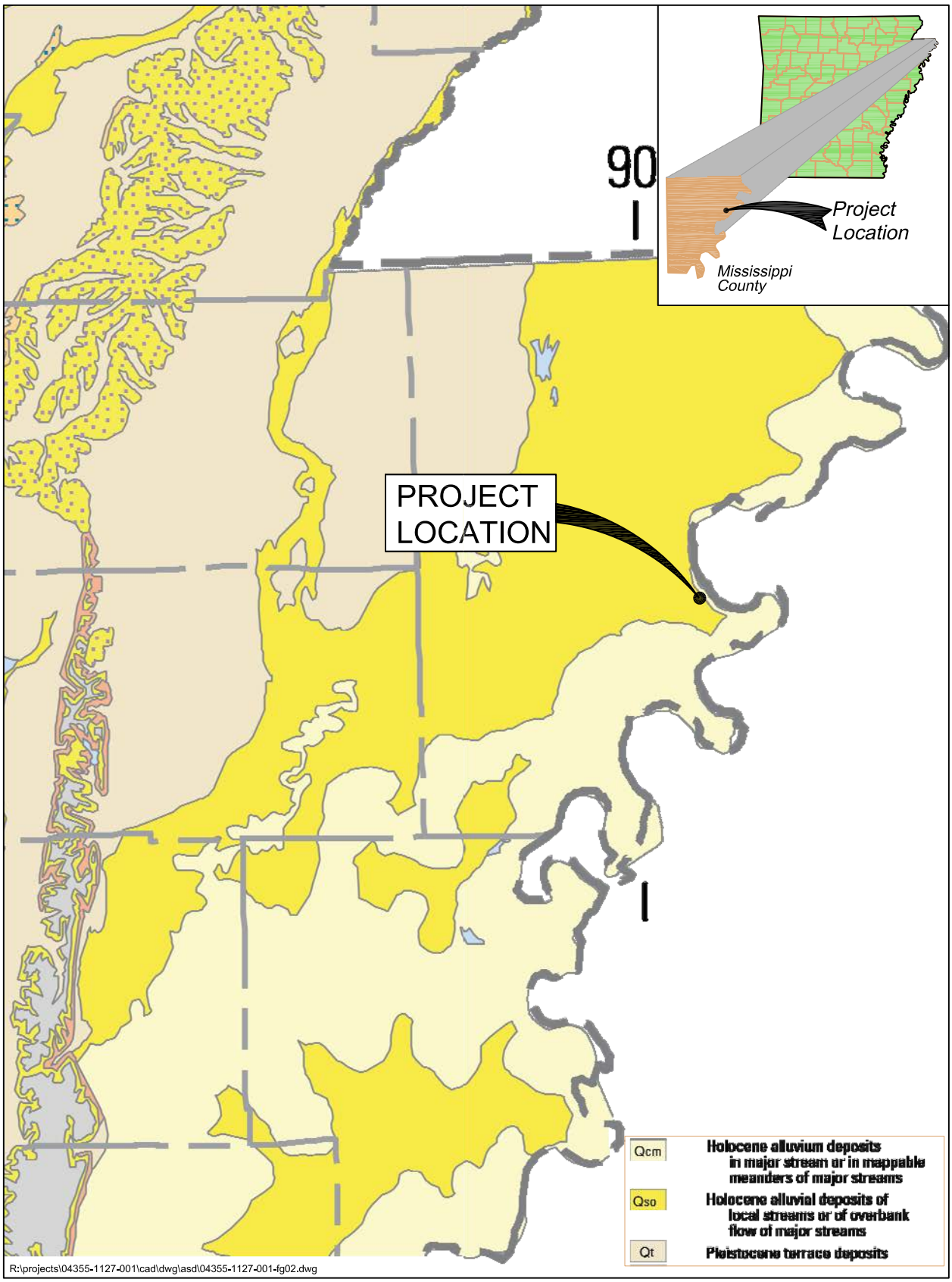


Figure 2. Surface geology of Mississippi County, Arkansas (adapted from Kresse et al. 2014).

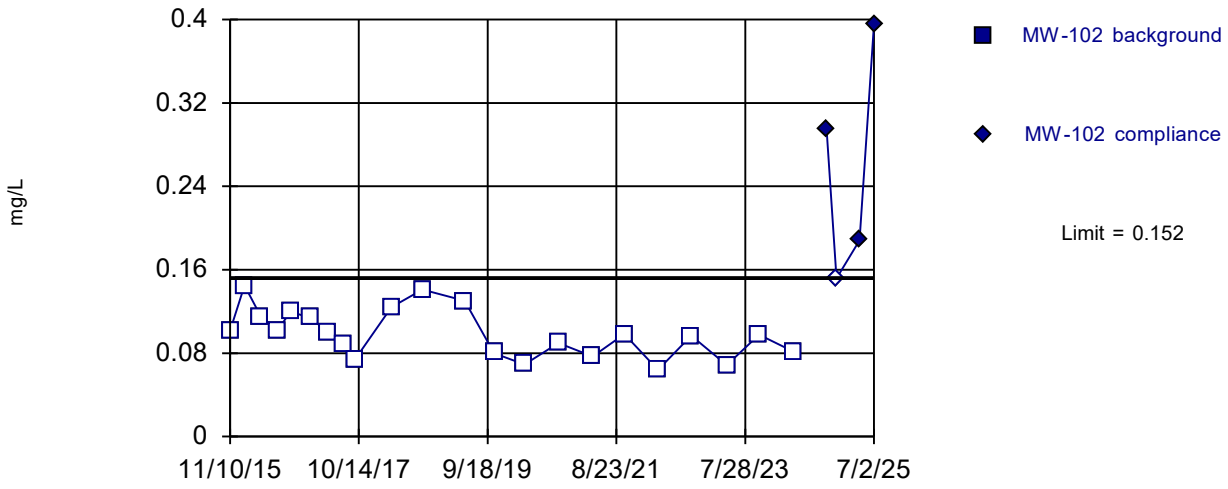
ATTACHMENT 2
STATISTICAL PLOTS

Sanitas™ v.10.0.27 Software licensed to Olsson. UG
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.09891, Std. Dev.=0.02336, n=22. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9603, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Boron Analysis Run 7/21/2025 8:27 AM View: Prediction Limits

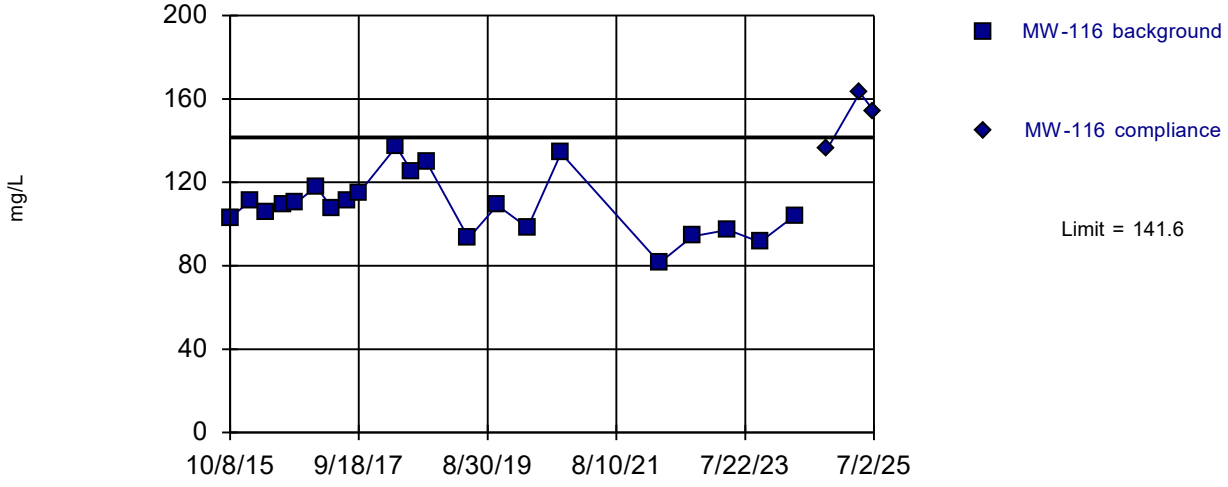
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.27 Software licensed to Olsson. UG

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=108.8, Std. Dev.=14.33, n=21. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9696, critical = 0.873. Kappa = 2.288 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Calcium Analysis Run 7/21/2025 8:27 AM View: Prediction Limits

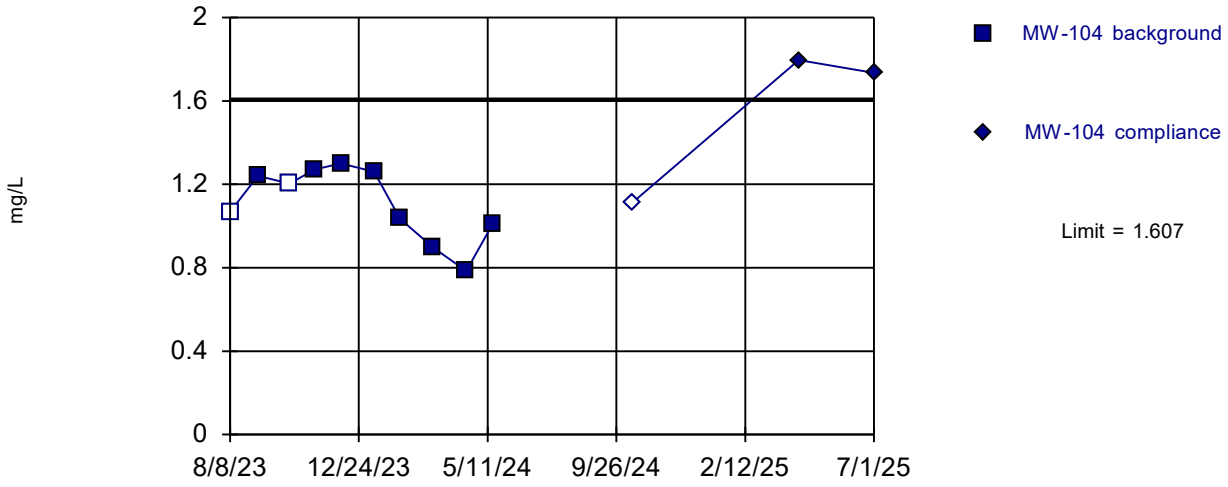
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.27 Software licensed to Olsson. UG
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.106, Std. Dev.=0.1765, n=10. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9077, critical = 0.781. Kappa = 2.838 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 7/21/2025 8:27 AM View: Prediction Limits

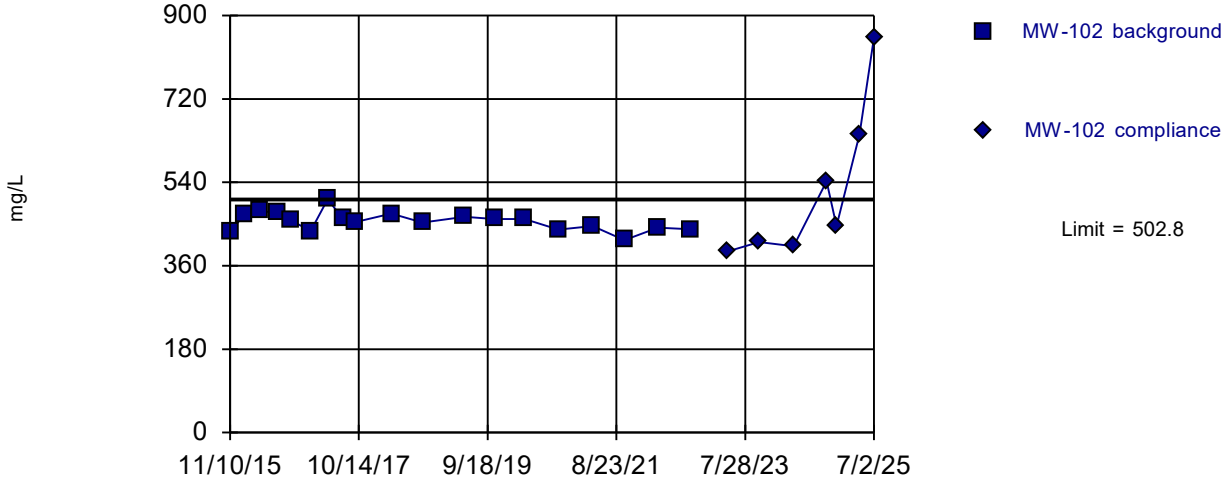
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.27 Software licensed to Olsson. UG

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=455.8, Std. Dev.=20.1, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.976, critical = 0.863. Kappa = 2.334 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

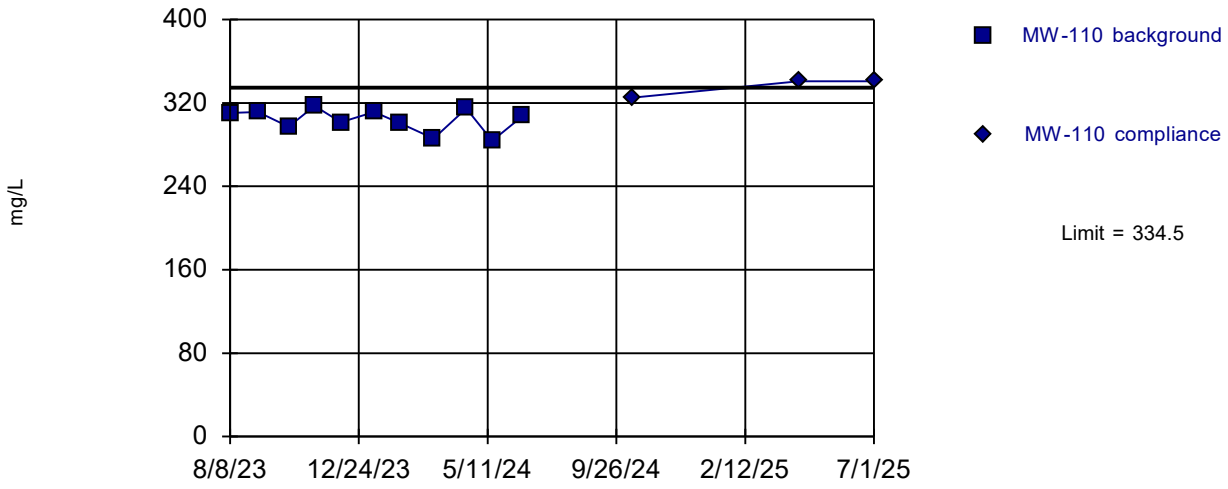
Constituent: Dissolved Solids Analysis Run 7/21/2025 8:27 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=303.8, Std. Dev.=11.22, n=11. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9028, critical = 0.792. Kappa = 2.74 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Dissolved Solids Analysis Run 7/21/2025 8:27 AM View: Prediction Limits

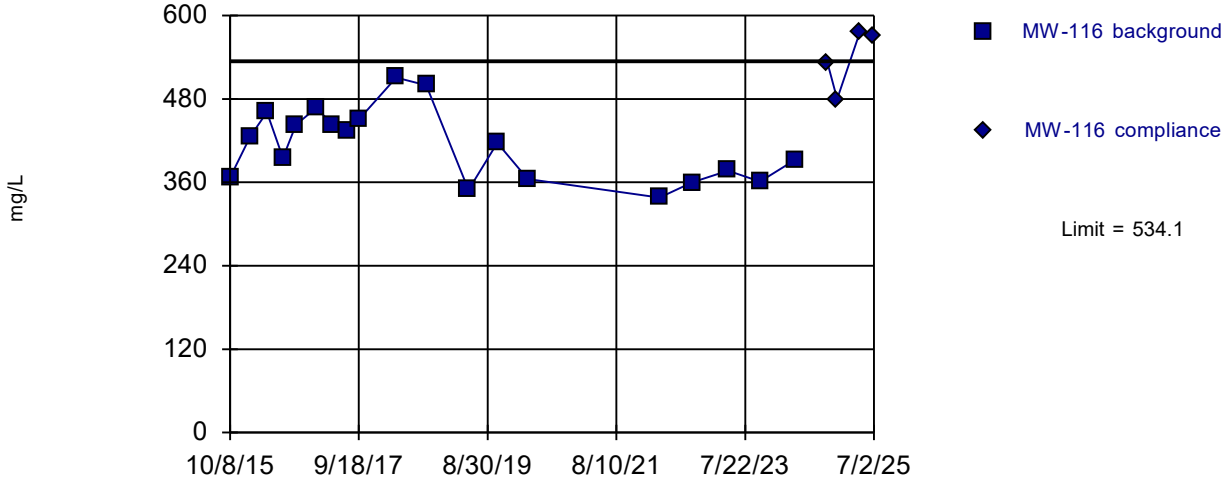
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

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Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=413.6, Std. Dev.=51.65, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9491, critical = 0.863. Kappa = 2.334 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

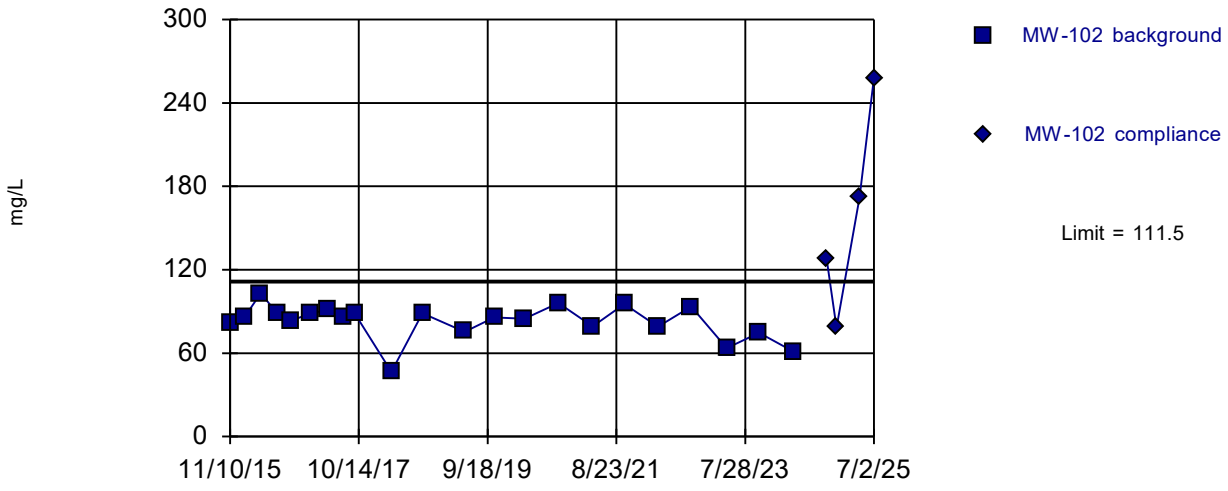
Constituent: Dissolved Solids Analysis Run 7/21/2025 8:27 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=82.71, Std. Dev.=12.69, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9027, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 7/21/2025 8:27 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

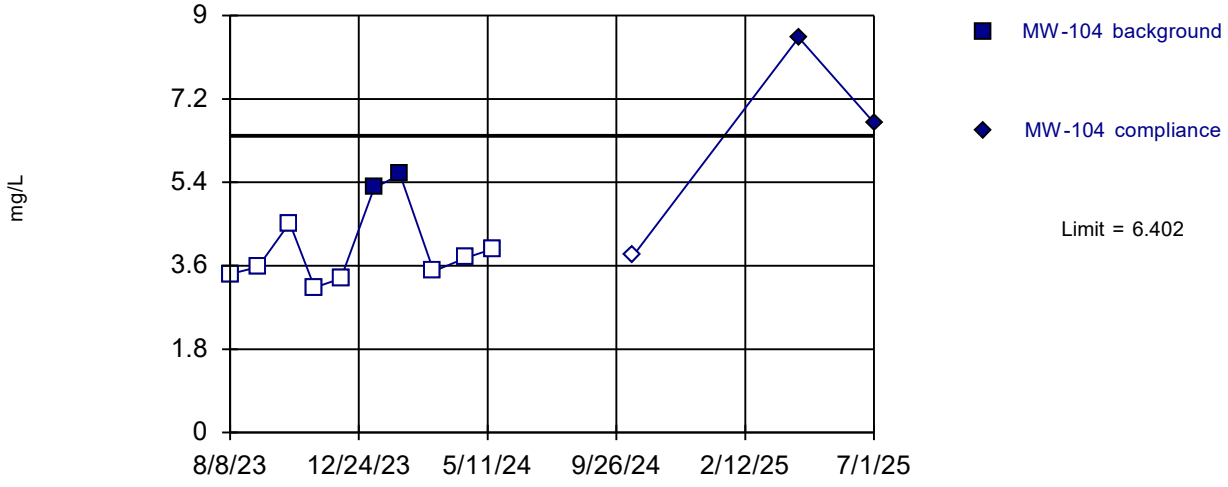
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Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=4.002, Std. Dev.=0.8458, n=10. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8559, critical = 0.781. Kappa = 2.838 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 7/21/2025 8:27 AM View: Prediction Limits

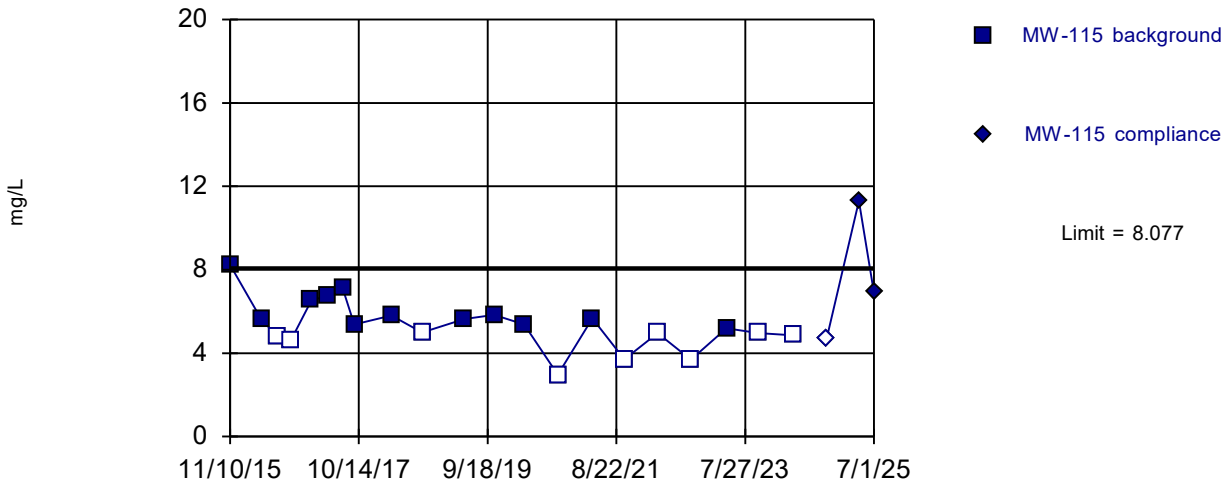
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.0.27 Software licensed to Olsson. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric

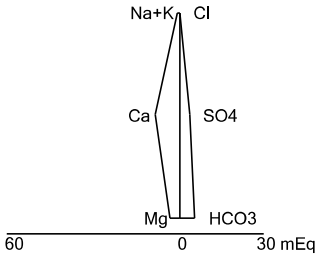


Background Data Summary: Mean=5.361, Std. Dev.=1.187, n=21. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9647, critical = 0.873. Kappa = 2.288 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

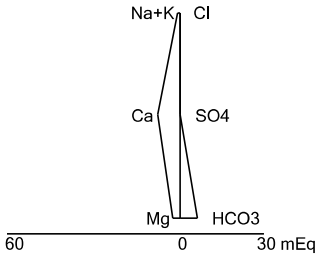
Constituent: Sulfate Analysis Run 7/21/2025 8:27 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

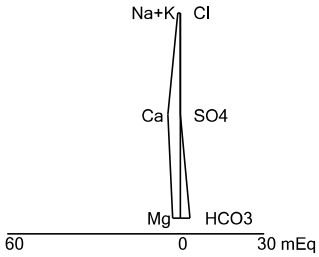
Sanitas™ v.10.0.27 Software licensed to Olsson. UG



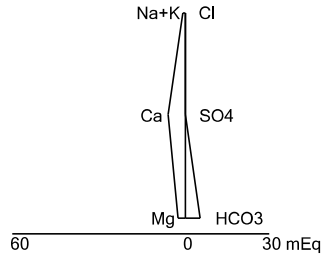
MW-102



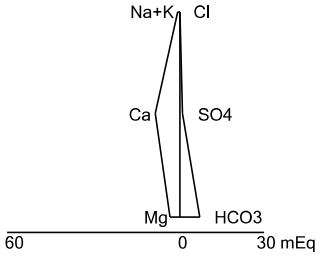
MW-108* (bg)
*background well



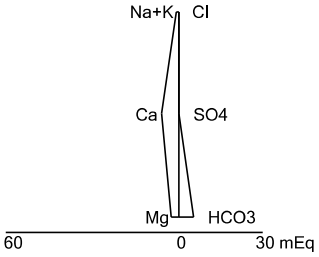
MW-113* (bg)
*background well



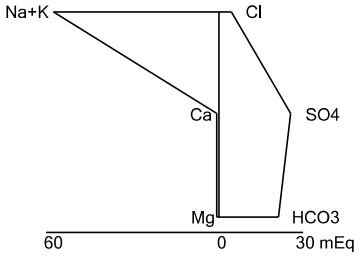
MW-115* (bg)
*background well



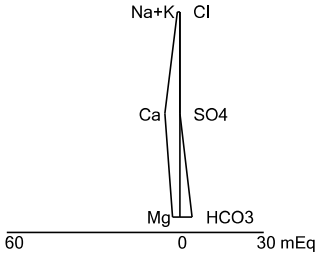
MW-116



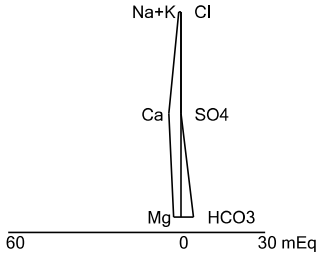
MW-117



LEACHATE



MW-104



MW-110

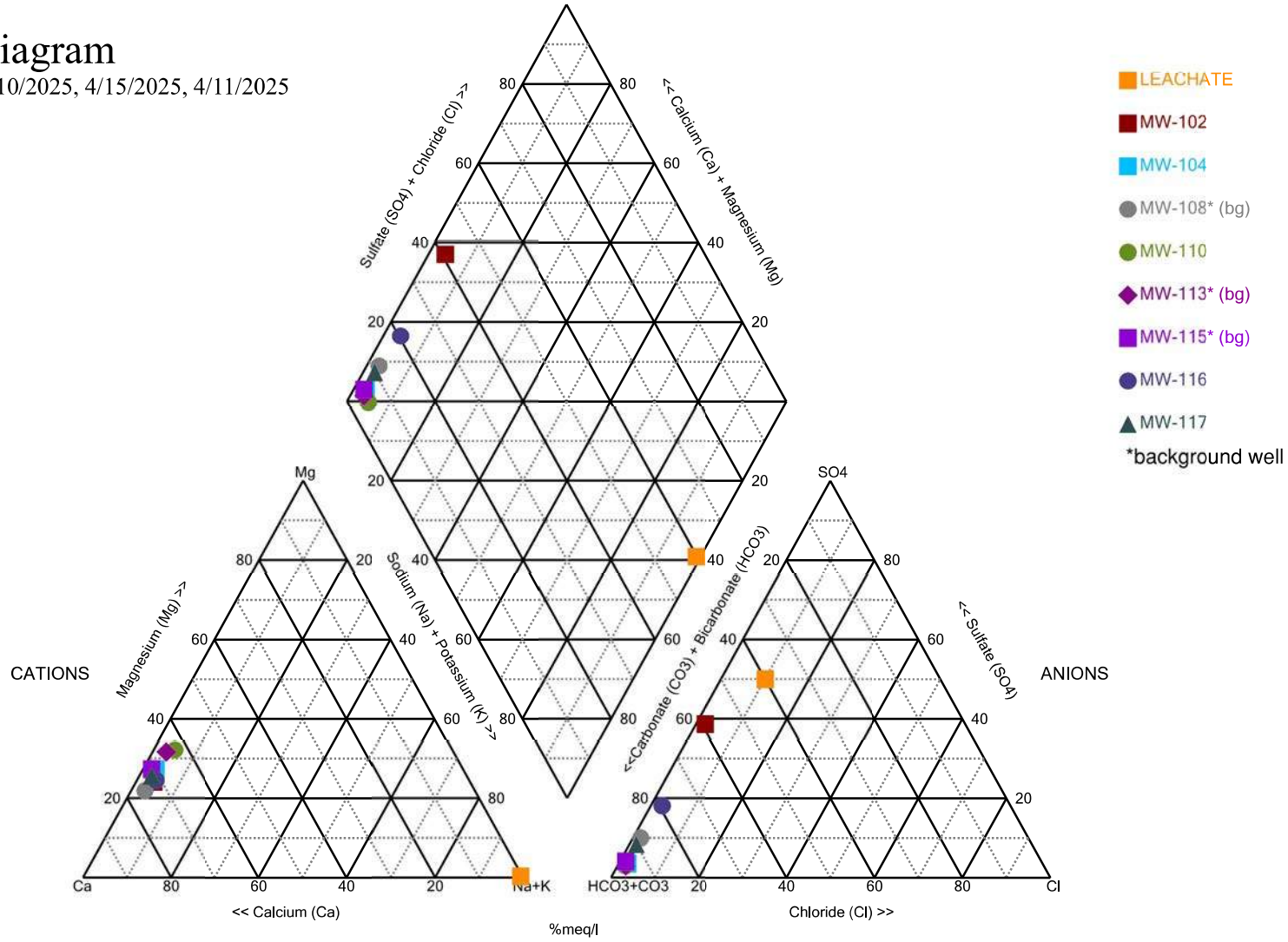
Stiff Diagram - 4/14/2025, 4/10/2025, 4/15/2025, 4/11/2025 Analysis Run 9/12/2025 12:26 PM View: Stiff

Plum Point Energy Station Data: PPES EPA CCR Database (GWQ parameters)

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Piper Diagram

4/14/2025, 4/10/2025, 4/15/2025, 4/11/2025



Analysis Run 9/12/2025 12:27 PM View: Stiff & Piper Plots

Plum Point Energy Station Data: PPES EPA CCR Database (GWQ parameters)

ATTACHMENT 3
SUMMARY TABLE

Table 1. Summary of statistically significant results and maximum background and published levels.

Well ID	Parameter	Prediction Limit (mg/L)	April 2025 Result (mg/L)	July 2025 Verification Result (mg/L)	SSI Confirmed?	Maximum Background Level[a] (mg/L)	Maximum Published Level[b] (mg/L)
MW-102	Boron	0.159	0.214[c]	0.415	Yes	0.194 (J, MW-108, 4/2016)	Not available
MW-116	Calcium	141.6	163	154	Yes	183 (MW-108, 4/2018)	130
MW-117	Calcium	93.19	108	Not Applicable[d]	Yes[d]		
MW-104	Chloride	1.45	2.04[c]	1.98	Yes	5.81 (MW-113, 1/2017) 5.34 (MW-108, 1/2016)	140
MW-102	Sulfate	111.5	172	258	Yes	71.4 (MW-108, 4/2024) 67.1 (MW-108, 6/2024)	120
MW-104	Sulfate	6.402	8.52	6.69	Yes		
MW-115 (Background well)	Sulfate	8.077	11.3	6.89	No		
MW-117	Sulfate	8.222	23.8	Not Applicable[d]	Yes[d]		
MW-102	TDS	502.8	644	852	Yes	638 (MW-108, 4/2016) 582 (MW-108, 4/2018)	728
MW-110	TDS	333.1	326[e]	326[e]	Yes		
MW-116	TDS	534.1	576	570	Yes		
MW-117	TDS	319.2	381	Not Applicable[d]	Yes[d]		

Notes: J – the reported value is an estimate.

a. Based on historical values at MW-108, MW-113, and MW-115.

b. From Gonthier 2003; value is for the Holocene subunit.

c. Value shown is the result of a laboratory re-run of the sample for verification purposes.

d. Previously confirmed SSI.

e. Statistical software deasonalizes the concentrations and the deasonalized concentration exceeds the prediction limit.

REFERENCES

Gonthier, G.J. 2003. *Quality of Groundwater in Pleistocene and Holocene Subunits of the Mississippi River Alluvial Aquifer, 1998* [Water-Resources Investigations Report 03-4202]. Jackson, MS: US Geological Survey, National Water-Quality Assessment Program.

Table 2. Summary of ASD submittals for previously confirmed SSIs identified during the first half 2025 monitoring period.

Analyte	Well ID	Monitoring Period	ASD Date	ASD Citation
Calcium	**MW-117**	1H2019	10/24/2019	FTN 2020a
		1H2020	8/3/2020	FTN 2020b
		1H2022	9/27/2022	FTN 2023
		1H2024	10/15/2024	Olsson 2025
Sulfate	**MW-117**	2H2021	4/4/2022	FTN 2023
		1H2022	9/27/2022	FTN 2023
		2H2022	1/25/2023	FTN 2023
		1H2023	10/12/2023	FTN 2024
		2H2023	1/31/2024	FTN 2024
		1H2024	10/15/2024	Olsson 2025
		2H2024	1/24/2025	Olsson 2025
TDS	**MW-117**	1H2019	10/24/2019	FTN 2020a
		2H2019	12/17/2019	FTN 2020a
		1H2020	8/3/2020	FTN 2020b
		1H2021	10/6/2021	FTN 2022
		2H2021	4/4/2022	FTN 2023
		1H2022	9/27/2022	FTN 2023
		2H2023	1/31/2024	FTN 2024
		1H2024	10/15/2024	Olsson 2025
		2H2024	1/24/2025	Olsson 2025

REFERENCES

FTN [FTN Associates, Ltd.]. 2020a. "Appendix H, Alternate Source Demonstrations." In *Plum Point Energy Station, Groundwater Monitoring and Corrective Action, 2019 Annual Report*. Little Rock, AR: FTN Associates, Ltd. January 28, 2020.

———. 2020b. "Appendix H, Alternate Source Demonstrations." In *Plum Point Energy Station, Groundwater Monitoring and Corrective Action, 2020 Annual Report*. Little Rock, AR: FTN Associates, Ltd. December 18, 2020.

———. 2022. "Appendix H, Alternate Source Demonstrations." In *Plum Point Energy Station, Groundwater Monitoring and Corrective Action, 2021 Annual Report*. Little Rock, AR: FTN Associates, Ltd. January 31, 2022.

———. 2023. "Appendix H, Alternate Source Demonstrations." In *Plum Point Energy Station, Groundwater Monitoring and Corrective Action, 2022 Annual Report*. Little Rock, AR: FTN Associates, Ltd. January 25, 2023.

———. 2024. "Appendix H, Alternate Source Demonstrations." In *Plum Point Energy Station, Groundwater Monitoring and Corrective Action, 2023 Annual Report*. Little Rock, AR: FTN Associates, Ltd. January 31, 2024.

Olsson. 2025. "Appendix H, Alternate Source Demonstrations." In *Plum Point Energy Station, Groundwater Monitoring and Corrective Action, 2024 Annual Report*. Little Rock, AR: Olsson. January 24, 2025.

ATTACHMENT 4
LABORATORY REPORTS

ANALYTICAL REPORT

April 22, 2025

Plum Point Services Co., LLC

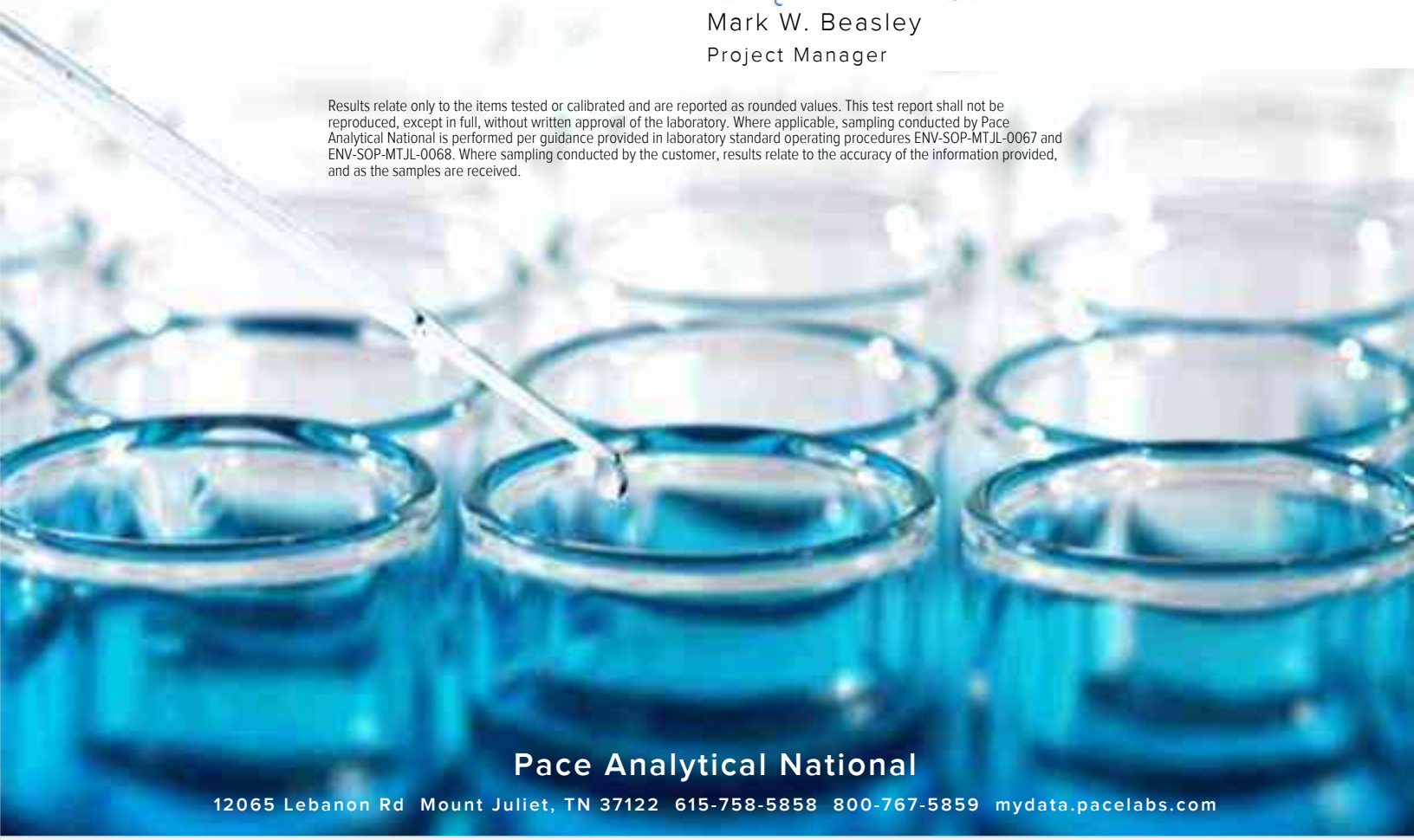
Sample Delivery Group:	L1847497
Samples Received:	04/12/2025
Project Number:	A24-01343
Description:	Plum Point Energy Station

Report To: Melissa Vaught
2739 SCR 623
Osceola, AR 72370

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MW-104 L1847497-01 GW

Collected by: Michael Clayton | Collected date/time: 04/11/25 13:30 | Received date/time: 04/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2490298	1	04/14/25 15:51	04/14/25 18:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2490028	1	04/18/25 21:17	04/18/25 21:17	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2493985	1	04/19/25 20:45	04/21/25 18:40	MAP	Mt. Juliet, TN

MW-108 L1847497-02 GW

Collected by: Michael Clayton | Collected date/time: 04/10/25 14:00 | Received date/time: 04/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2490300	1	04/15/25 07:15	04/15/25 14:30	MDD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2490028	1	04/18/25 21:36	04/18/25 21:36	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2493985	1	04/19/25 20:45	04/21/25 19:23	MAP	Mt. Juliet, TN

MW-110 L1847497-03 GW

Collected by: Michael Clayton | Collected date/time: 04/11/25 12:05 | Received date/time: 04/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2490300	1	04/15/25 07:15	04/15/25 14:30	MDD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2490028	1	04/18/25 21:54	04/18/25 21:54	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2493985	1	04/19/25 20:45	04/21/25 19:24	MAP	Mt. Juliet, TN

MW-113 L1847497-04 GW

Collected by: Michael Clayton | Collected date/time: 04/10/25 12:44 | Received date/time: 04/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2490300	1	04/15/25 07:15	04/15/25 14:30	MDD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2490028	1	04/18/25 22:12	04/18/25 22:12	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2493985	1	04/19/25 20:45	04/21/25 19:26	MAP	Mt. Juliet, TN

MW-115 L1847497-05 GW

Collected by: Michael Clayton | Collected date/time: 04/10/25 11:40 | Received date/time: 04/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2490305	1	04/15/25 07:12	04/15/25 11:32	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2490028	1	04/18/25 22:30	04/18/25 22:30	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2493985	1	04/19/25 20:45	04/21/25 19:28	MAP	Mt. Juliet, TN

MW-120 L1847497-06 GW

Collected by: Michael Clayton | Collected date/time: 04/11/25 14:35 | Received date/time: 04/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2490305	1	04/15/25 07:12	04/15/25 11:32	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2490032	1	04/19/25 13:55	04/19/25 13:55	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2493985	1	04/19/25 20:45	04/21/25 19:30	MAP	Mt. Juliet, TN

SAMPLE SUMMARY

MW-113 DUP L1847497-07 GW

Collected by	Collected date/time	Received date/time
Michael Clayton	04/10/25 12:45	04/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2490305	1	04/15/25 07:12	04/15/25 11:32	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2490032	1	04/19/25 14:47	04/19/25 14:47	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2493985	1	04/19/25 20:45	04/21/25 19:32	MAP	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	326000		10000	1	04/14/2025 18:21	WG2490298

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	1990		547	1000	1	04/18/2025 21:17	WG2490028
Fluoride	255		76.1	150	1	04/18/2025 21:17	WG2490028
Sulfate	8520		637	5000	1	04/18/2025 21:17	WG2490028

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	59.3	J	23.2	200	1	04/21/2025 18:40	WG2493985
Calcium	92000	O1	153	1000	1	04/21/2025 18:40	WG2493985

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	463000		10000	1	04/15/2025 14:30	WG2490300

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	2000		547	1000	1	04/18/2025 21:36	WG2490028
Fluoride	176		76.1	150	1	04/18/2025 21:36	WG2490028
Sulfate	35200		637	5000	1	04/18/2025 21:36	WG2490028

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	114	J	23.2	200	1	04/21/2025 19:23	WG2493985
Calcium	145000		153	1000	1	04/21/2025 19:23	WG2493985

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	326000		10000	1	04/15/2025 14:30	WG2490300

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	1060		547	1000	1	04/18/2025 21:54	WG2490028
Fluoride	185		76.1	150	1	04/18/2025 21:54	WG2490028
Sulfate	7250		637	5000	1	04/18/2025 21:54	WG2490028

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	56.5	J	23.2	200	1	04/21/2025 19:24	WG2493985
Calcium	82900		153	1000	1	04/21/2025 19:24	WG2493985

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	279000		10000	1	04/15/2025 14:30	WG2490300

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	907	J	547	1000	1	04/18/2025 22:12	WG2490028
Fluoride	95.7	J	76.1	150	1	04/18/2025 22:12	WG2490028
Sulfate	6240		637	5000	1	04/18/2025 22:12	WG2490028

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	71.6	J	23.2	200	1	04/21/2025 19:26	WG2493985
Calcium	75800		153	1000	1	04/21/2025 19:26	WG2493985

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	407000		10000	1	04/15/2025 11:32	WG2490305

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	979	J	547	1000	1	04/18/2025 22:30	WG2490028
Fluoride	210		76.1	150	1	04/18/2025 22:30	WG2490028
Sulfate	11300		637	5000	1	04/18/2025 22:30	WG2490028

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	56.1	J	23.2	200	1	04/21/2025 19:28	WG2493985
Calcium	120000		153	1000	1	04/21/2025 19:28	WG2493985

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	291000		10000	1	04/15/2025 11:32	WG2490305

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	2290	P1	547	1000	1	04/19/2025 13:55	WG2490032
Fluoride	320	P1	76.1	150	1	04/19/2025 13:55	WG2490032
Sulfate	15300		637	5000	1	04/19/2025 13:55	WG2490032

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	53.9	J	23.2	200	1	04/21/2025 19:30	WG2493985
Calcium	77200		153	1000	1	04/21/2025 19:30	WG2493985

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	285000		10000	1	04/15/2025 11:32	WG2490305

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	862	J	547	1000	1	04/19/2025 14:47	WG2490032
Fluoride	U		76.1	150	1	04/19/2025 14:47	WG2490032
Sulfate	6310		637	5000	1	04/19/2025 14:47	WG2490032

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	72.6	J	23.2	200	1	04/21/2025 19:32	WG2493985
Calcium	76500		153	1000	1	04/21/2025 19:32	WG2493985

Method Blank (MB)

(MB) R4199935-1 04/14/25 18:21

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Dissolved Solids	U		10000	10000

L1847497-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1847497-01 04/14/25 18:21 • (DUP) R4199935-3 04/14/25 18:21

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Dissolved Solids	326000	332000	1	1.82		10

Laboratory Control Sample (LCS)

(LCS) R4199935-2 04/14/25 18:21

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Dissolved Solids	8800000	8620000	98.0	90.0-110	

Method Blank (MB)

(MB) R4202105-1 04/15/25 14:30

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Dissolved Solids	U		10000	10000

L1847496-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1847496-01 04/15/25 14:30 • (DUP) R4202105-3 04/15/25 14:30

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	319000	322000	1	0.936		10

L1847497-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1847497-04 04/15/25 14:30 • (DUP) R4202105-4 04/15/25 14:30

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	279000	276000	1	1.08		10

Laboratory Control Sample (LCS)

(LCS) R4202105-2 04/15/25 14:30

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800000	8590000	97.6	90.0-110	

Method Blank (MB)

(MB) R4201174-1 04/15/25 11:32

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Dissolved Solids	U		10000	10000

L1847231-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1847231-01 04/15/25 11:32 • (DUP) R4201174-3 04/15/25 11:32

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1270000	1270000	1	0.000		10

L1847563-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1847563-07 04/15/25 11:32 • (DUP) R4201174-4 04/15/25 11:32

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	ND	ND	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R4201174-2 04/15/25 11:32

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800000	8580000	97.5	90.0-110	

Method Blank (MB)

(MB) R4202012-1 04/18/25 14:07

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		547	1000
Fluoride	U		76.1	150
Sulfate	U		637	5000

L1847496-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1847496-02 04/18/25 17:02 • (DUP) R4202012-3 04/18/25 17:20

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	837	832	1	0.539	J	15
Fluoride	129	117	1	9.20	J	15
Sulfate	4000	3860	1	3.53	J	15

L1847496-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1847496-03 04/18/25 18:15 • (DUP) R4202012-6 04/18/25 18:33

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	2030	2070	1	1.92		15
Fluoride	167	168	1	0.119		15
Sulfate	35700	35500	1	0.714		15

Laboratory Control Sample (LCS)

(LCS) R4202012-2 04/18/25 14:27

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	37900	94.7	80.0-120	
Fluoride	8000	7890	98.7	80.0-120	
Sulfate	40000	38600	96.4	80.0-120	

L1847496-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1847496-02 04/18/25 17:02 • (MS) R4202012-4 04/18/25 17:38 • (MSD) R4202012-5 04/18/25 17:56

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	837	39300	39000	96.0	95.5	1	80.0-120			0.529	15
Fluoride	8000	129	8090	8050	99.6	99.0	1	80.0-120			0.581	15
Sulfate	40000	4000	42700	42200	96.7	95.4	1	80.0-120			1.16	15

L1847496-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1847496-03 04/18/25 18:15 • (MS) R4202012-7 04/18/25 18:51

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	2030	40800	97.0	1	80.0-120	
Fluoride	8000	167	8200	100	1	80.0-120	
Sulfate	40000	35700	67800	80.1	1	80.0-120	

Method Blank (MB)

(MB) R4202713-1 04/19/25 13:29

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		547	1000
Fluoride	U		76.1	150
Sulfate	U		637	5000

L1847497-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1847497-06 04/19/25 13:55 • (DUP) R4202713-3 04/19/25 14:08

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	2290	1350	1	51.3	P1	15
Fluoride	320	135	1	81.3	J P1	15
Sulfate	15300	14100	1	8.35		15

L1847515-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1847515-02 04/19/25 16:17 • (DUP) R4202713-6 04/19/25 16:30

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	58000	58000	1	0.0105		15
Fluoride	487	372	1	26.9	P1	15
Sulfate	55400	55400	1	0.139		15

Laboratory Control Sample (LCS)

(LCS) R4202713-2 04/19/25 13:42

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	38400	95.9	80.0-120	
Fluoride	8000	7700	96.3	80.0-120	
Sulfate	40000	37100	92.7	80.0-120	

L1847497-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1847497-06 04/19/25 13:55 • (MS) R4202713-4 04/19/25 14:21 • (MSD) R4202713-5 04/19/25 14:34

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	2290	40200	40000	94.9	94.2	1	80.0-120			0.637	15
Fluoride	8000	320	8120	8080	97.6	97.0	1	80.0-120			0.586	15
Sulfate	40000	15300	51100	50700	89.5	88.3	1	80.0-120			0.935	15

L1847515-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1847515-02 04/19/25 16:17 • (MS) R4202713-7 04/19/25 16:43

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	58000	85300	68.3	1	80.0-120	J6
Fluoride	8000	487	8700	103	1	80.0-120	
Sulfate	40000	55400	84800	73.7	1	80.0-120	J6

Method Blank (MB)

(MB) R4202998-1 04/21/25 18:36

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Boron	U		23.3	200
Calcium	U		153	1000

L1844517-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1844517-01 04/21/25 18:47 • (DUP) R4202998-6 04/21/25 18:49

Analyte	Original Result	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Boron		156	1	1.63	J	20
Calcium	60000	61000	1	1.53		20

L1844517-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1844517-02 04/21/25 18:50 • (DUP) R4202998-7 04/21/25 18:52

Analyte	Original Result	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Boron		213	1	0.0663		20
Calcium	108000	108000	1	0.654		20

L1844517-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1844517-03 04/21/25 18:58 • (DUP) R4202998-8 04/21/25 18:59

Analyte	Original Result	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Boron		23.8	1	1.10	J	20
Calcium	62700	62300	1	0.703		20

Laboratory Control Sample (LCS)

(LCS) R4202998-2 04/21/25 18:38

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1000	1000	100	80.0-120	
Calcium	10000	10200	102	80.0-120	

L1847497-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1847497-01 04/21/25 18:40 • (MS) R4202998-4 04/21/25 18:43 • (MSD) R4202998-5 04/21/25 18:45

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1000	59.3	1060	1050	100	99.1	1	75.0-125			0.816	20
Calcium	10000	92000	102000	101000	105	90.2	1	75.0-125			1.46	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Plum Point Services Co., LLC

2739 SCR 623
Osceola, AR 72370

Billing Information:
Accounts Payable
P.O. Box 567
Osceola, AR 72370

Pres Chk

Report to:
Melissa Vaught 501-920-9642

Email To:
mvaught@olsson.com;mclayton@olsson.com;a

Project Description:
Plum Point Energy Station

City/State Collected: OSCEOLA, AR

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
A24-01343

Lab Project #
NAESOAR-PLUMPOINT

Collected by (print):
Michael Clayton

Site/Facility ID #

P.O. #
2025-00048

Collected by (signature):

Immediately Packed on Ice N ___ Y V

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 184499
Y195

Acctnum: **NAESOAR**
Template: **T175308**
Prelogin: **P1139782**
PM: **134 - Mark W. Beasley**
PB: 03/26/25 CG
Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cl, F, SO4 125mlHDPE-NoPres	TDS 250mlHDPE-NoPres	Total B, Ca 250mlHDPE-HNO3	Remarks	Sample # (lab only)
~~MW-101~~		GW				3	X	X	X		
~~MW-102~~		GW				3	X	X	X		
~~MW-103~~		GW				3	X	X	X		
MW-104	GRAB	GW		4/11/25	1330	3	X	X	X		-01
MW-108		GW		4/10/25	1400	3	X	X	X		-02
MW-110		GW		4/11/25	1205	3	X	X	X		-03
MW-113		GW		4/10/25	1244	3	X	X	X		-04
MW-115		GW		4/10/25	1140	3	X	X	X		-05
MW-116		GW				3	X	X	X		
MW-117		GW				3	X	X	X		

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier _____

Tracking # 4495 5928 6025

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Michael Clayton	4/11/25	1730			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: TUN 0.9+0.4=1.2 21	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/12/25 Time: 0900	Hold: Condition NCF / OK

Company Name/Address:
Plum Point Services Co., LLC
2739 SCR 623
Osceola, AR 72370

Billing Information:
Accounts Payable
P.O. Box 567
Osceola, AR 72370

Pres Chk

Report to:
Melissa Vaught 501-920-9642

Email To:
mvaught@olsson.com;mclayton@olsson.com;a

Project Description:
Plum Point Energy Station

City/State Collected: Osceola Ar

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
A24-01343

Lab Project #
NAESOAR-PLUMPOINT

Collected by (print):
Michael Clayton

Site/Facility ID #

P.O. #
2025-00048

Collected by (signature):
Immediately
Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cl, F, SO4 125mlHDPE-NoPres	TDS 250mlHDPE-NoPres	Total B, Ca 250mlHDPE-HNO3	Remarks	Sample # (lab only)
MW-118		GW				3	X	X	X		
MW-119		GW				3	X	X	X		
MW-120		GW		4/11/25	1435	3	X	X	X		-06
MW-121		GW				3	X	X	X		
MW-113 DUP		GW		4/10/25	1245	3	X	X	X		-07
EPA EB-1		GW				3	X	X	X		
		GW				3	X	X	X		
		GW				3	X	X	X		
		GW				3	X	X	X		

Chain of Custody Pg

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 184799

Table #

Acctnum: **NAESOAR**
Template: **T175308**
Prelogin: **P1139782**
PM: **134 - Mark W. Beasley**
PB: 03/26/25CG
Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier _____

Tracking # 4493 5928 6025

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	4/11/25	1730		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: TUA 9.0+10.4=1.2 21
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/12/25 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition NCF / OK

ANALYTICAL REPORT

April 23, 2025

Plum Point Services Co., LLC

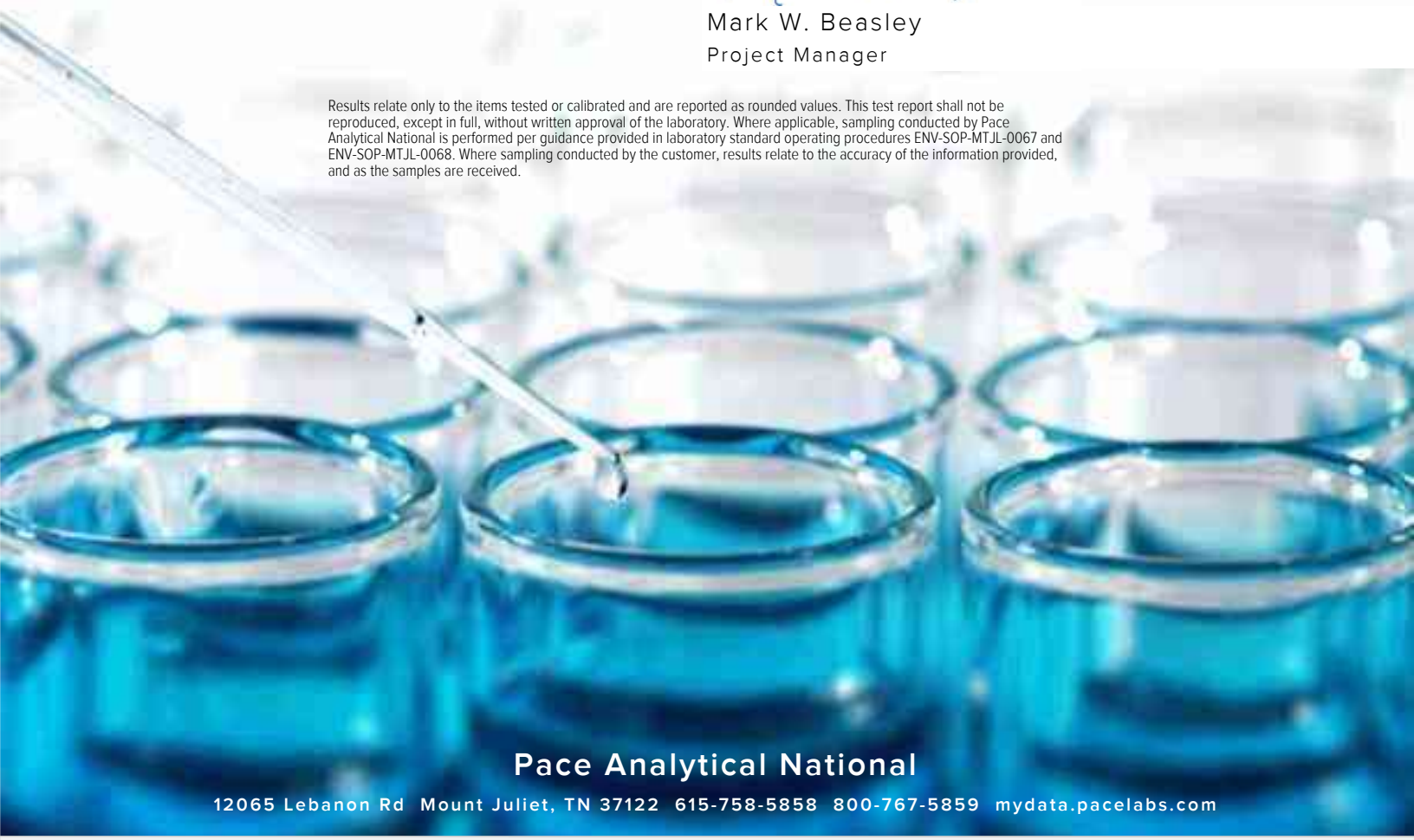
Sample Delivery Group:	L1848443
Samples Received:	04/16/2025
Project Number:	A24-01343
Description:	Plum Point Energy Station

Report To: Melissa Vaught
2739 SCR 623
Osceola, AR 72370

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MW-101 L1848443-01 GW

Collected by: Michael Clayton | Collected date/time: 04/14/25 13:40 | Received date/time: 04/16/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2492616	1	04/16/25 22:27	04/17/25 11:09	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	1	04/21/25 18:29	04/21/25 18:29	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2495432	1	04/22/25 21:21	04/23/25 13:38	RLS	Mt. Juliet, TN

MW-102 L1848443-02 GW

Collected by: Michael Clayton | Collected date/time: 04/14/25 14:35 | Received date/time: 04/16/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2492616	1	04/16/25 22:27	04/17/25 11:09	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	1	04/21/25 19:09	04/21/25 19:09	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	10	04/21/25 19:23	04/21/25 19:23	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2495432	1	04/22/25 21:21	04/23/25 13:39	RLS	Mt. Juliet, TN

MW-103 L1848443-03 GW

Collected by: Michael Clayton | Collected date/time: 04/14/25 11:50 | Received date/time: 04/16/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2492616	1	04/16/25 22:27	04/17/25 11:09	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	1	04/21/25 19:36	04/21/25 19:36	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2495432	1	04/22/25 21:21	04/23/25 13:41	RLS	Mt. Juliet, TN

MW-116 L1848443-04 GW

Collected by: Michael Clayton | Collected date/time: 04/14/25 16:50 | Received date/time: 04/16/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2492616	1	04/16/25 22:27	04/17/25 11:09	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	1	04/21/25 19:50	04/21/25 19:50	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2495432	1	04/22/25 21:21	04/23/25 13:43	RLS	Mt. Juliet, TN

MW-117 L1848443-05 GW

Collected by: Michael Clayton | Collected date/time: 04/15/25 12:30 | Received date/time: 04/16/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2492616	1	04/16/25 22:27	04/17/25 11:09	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	1	04/21/25 20:17	04/21/25 20:17	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2495437	1	04/22/25 20:00	04/23/25 10:46	MAP	Mt. Juliet, TN

MW-118 L1848443-06 GW

Collected by: Michael Clayton | Collected date/time: 04/15/25 11:30 | Received date/time: 04/16/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2492616	1	04/16/25 22:27	04/17/25 11:09	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	1	04/21/25 20:57	04/21/25 20:57	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	1	04/22/25 13:43	04/22/25 13:43	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2495437	1	04/22/25 20:00	04/23/25 10:53	MAP	Mt. Juliet, TN

MW-119 L1848443-07 GW

Collected by: Michael Clayton | Collected date/time: 04/14/25 12:45 | Received date/time: 04/16/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2492616	1	04/16/25 22:27	04/17/25 11:09	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	1	04/21/25 21:11	04/21/25 21:11	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	1	04/22/25 14:00	04/22/25 14:00	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2495437	1	04/22/25 20:00	04/23/25 10:55	MAP	Mt. Juliet, TN

MW-121 L1848443-08 GW

Collected by: Michael Clayton | Collected date/time: 04/14/25 15:40 | Received date/time: 04/16/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2492616	1	04/16/25 22:27	04/17/25 11:09	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	1	04/21/25 21:24	04/21/25 21:24	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	1	04/22/25 14:21	04/22/25 14:21	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2495437	1	04/22/25 20:00	04/23/25 10:56	MAP	Mt. Juliet, TN

EPA EB-1 L1848443-09 GW

Collected by: Michael Clayton | Collected date/time: 04/14/25 13:05 | Received date/time: 04/16/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2492616	1	04/16/25 22:27	04/17/25 11:09	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	1	04/21/25 21:38	04/21/25 21:38	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2492341	1	04/22/25 14:37	04/22/25 14:37	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2495437	1	04/22/25 20:00	04/23/25 10:59	MAP	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	363000		10000	1	04/17/2025 11:09	WG2492616

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	1350		547	1000	1	04/21/2025 18:29	WG2492341
Fluoride	220	P1	76.1	150	1	04/21/2025 18:29	WG2492341
Sulfate	3750	J	637	5000	1	04/21/2025 18:29	WG2492341

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	62.2	J	23.2	200	1	04/23/2025 13:38	WG2495432
Calcium	103000		153	1000	1	04/23/2025 13:38	WG2495432

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	644000		10000	1	04/17/2025 11:09	WG2492616

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	4630		547	1000	1	04/21/2025 19:09	WG2492341
Fluoride	142	J	76.1	150	1	04/21/2025 19:09	WG2492341
Sulfate	172000		6370	50000	10	04/21/2025 19:23	WG2492341

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	208		23.2	200	1	04/23/2025 13:39	WG2495432
Calcium	166000		153	1000	1	04/23/2025 13:39	WG2495432

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	383000		10000	1	04/17/2025 11:09	WG2492616

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	2190		547	1000	1	04/21/2025 19:36	WG2492341
Fluoride	185		76.1	150	1	04/21/2025 19:36	WG2492341
Sulfate	39700		637	5000	1	04/21/2025 19:36	WG2492341

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	86.6	J	23.2	200	1	04/23/2025 13:41	WG2495432
Calcium	102000		153	1000	1	04/23/2025 13:41	WG2495432

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	576000		10000	1	04/17/2025 11:09	WG2492616

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	4720		547	1000	1	04/21/2025 19:50	WG2492341
Fluoride	204		76.1	150	1	04/21/2025 19:50	WG2492341
Sulfate	81800		637	5000	1	04/21/2025 19:50	WG2492341

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	105	J	23.2	200	1	04/23/2025 13:43	WG2495432
Calcium	163000		153	1000	1	04/23/2025 13:43	WG2495432

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	381000		10000	1	04/17/2025 11:09	WG2492616

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	1250		547	1000	1	04/21/2025 20:17	WG2492341
Fluoride	140	J	76.1	150	1	04/21/2025 20:17	WG2492341
Sulfate	23800		637	5000	1	04/21/2025 20:17	WG2492341

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	71.1	J	23.2	200	1	04/23/2025 10:46	WG2495437
Calcium	108000	V	153	1000	1	04/23/2025 10:46	WG2495437

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	281000		10000	1	04/17/2025 11:09	WG2492616

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	905	J	547	1000	1	04/21/2025 20:57	WG2492341
Fluoride	165		76.1	150	1	04/21/2025 20:57	WG2492341
Sulfate	13200		637	5000	1	04/22/2025 13:43	WG2492341

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	63.8	J	23.2	200	1	04/23/2025 10:53	WG2495437
Calcium	76500		153	1000	1	04/23/2025 10:53	WG2495437

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	319000		10000	1	04/17/2025 11:09	WG2492616

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	1040		547	1000	1	04/21/2025 21:11	WG2492341
Fluoride	220		76.1	150	1	04/21/2025 21:11	WG2492341
Sulfate	17500		637	5000	1	04/22/2025 14:00	WG2492341

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	53.8	J	23.2	200	1	04/23/2025 10:55	WG2495437
Calcium	86700		153	1000	1	04/23/2025 10:55	WG2495437

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	166000		10000	1	04/17/2025 11:09	WG2492616

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	608	J	547	1000	1	04/21/2025 21:24	WG2492341
Fluoride	127	J	76.1	150	1	04/21/2025 21:24	WG2492341
Sulfate	6240		637	5000	1	04/22/2025 14:21	WG2492341

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	U		23.2	200	1	04/23/2025 10:56	WG2495437
Calcium	36300		153	1000	1	04/23/2025 10:56	WG2495437

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10000	1	04/17/2025 11:09	WG2492616

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	1480		547	1000	1	04/21/2025 21:38	WG2492341
Fluoride	U		76.1	150	1	04/21/2025 21:38	WG2492341
Sulfate	U		637	5000	1	04/22/2025 14:37	WG2492341

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	U		23.2	200	1	04/23/2025 10:59	WG2495437
Calcium	U		153	1000	1	04/23/2025 10:59	WG2495437

Method Blank (MB)

(MB) R4202359-1 04/17/25 11:09

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Dissolved Solids	U		10000	10000

L1848195-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1848195-05 04/17/25 11:09 • (DUP) R4202359-3 04/17/25 11:09

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Dissolved Solids	ND	ND	1	0.000		10

L1848494-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1848494-01 04/17/25 11:09 • (DUP) R4202359-4 04/17/25 11:09

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Dissolved Solids	2440000	2500000	1	2.11		10

Laboratory Control Sample (LCS)

(LCS) R4202359-2 04/17/25 11:09

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Dissolved Solids	8800000	8180000	93.0	90.0-110	

Method Blank (MB)

(MB) R4203209-1 04/21/25 16:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		547	1000
Fluoride	U		76.1	150
Sulfate	U		637	5000

L1848440-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1848440-09 04/21/25 17:21 • (DUP) R4203209-3 04/21/25 17:35

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		15
Fluoride	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

L1848443-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1848443-01 04/21/25 18:29 • (DUP) R4203209-6 04/21/25 18:42

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1350	1400	1	3.46		15
Fluoride	220	264	1	18.1	P1	15
Sulfate	3750	3790	1	0.878	J	15

Laboratory Control Sample (LCS)

(LCS) R4203209-2 04/21/25 16:54

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	39400	98.6	80.0-120	
Fluoride	8000	8070	101	80.0-120	
Sulfate	40000	40200	100	80.0-120	

L1848440-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1848440-09 04/21/25 17:21 • (MS) R4203209-4 04/21/25 17:48 • (MSD) R4203209-5 04/21/25 18:02

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	U	39100	38600	97.7	96.5	1	80.0-120			1.27	15
Fluoride	8000	U	7910	7750	98.9	96.9	1	80.0-120			2.11	15
Sulfate	40000	U	39600	39000	98.9	97.5	1	80.0-120			1.44	15

L1848443-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1848443-01 04/21/25 18:29 • (MS) R4203209-7 04/21/25 18:56

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	1350	40800	98.6	1	80.0-120	
Fluoride	8000	220	8370	102	1	80.0-120	
Sulfate	40000	3750	43300	99.0	1	80.0-120	

Method Blank (MB)

(MB) R4204032-1 04/23/25 12:54

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Boron	U		23.3	200
Calcium	U		153	1000

Laboratory Control Sample (LCS)

(LCS) R4204032-2 04/23/25 12:56

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1000	957	95.7	80.0-120	
Calcium	10000	9830	98.3	80.0-120	

L1848247-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1848247-05 04/23/25 12:58 • (MS) R4204032-4 04/23/25 13:01 • (MSD) R4204032-5 04/23/25 13:03

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1000	165	1130	1130	96.1	96.7	1	75.0-125			0.542	20
Calcium	10000	37300	46000	46700	87.4	94.0	1	75.0-125			1.42	20

Method Blank (MB)

(MB) R4204060-1 04/23/25 10:43

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Boron	U		23.3	200
Calcium	U		153	1000

Laboratory Control Sample (LCS)

(LCS) R4204060-2 04/23/25 10:45

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Boron	1000	945	94.5	80.0-120	
Calcium	10000	9560	95.6	80.0-120	

L1848443-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1848443-05 04/23/25 10:46 • (MS) R4204060-4 04/23/25 10:50 • (MSD) R4204060-5 04/23/25 10:51

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Boron	1000	71.1	1020	1020	94.9	94.8	1	75.0-125			0.168	20
Calcium	10000	108000	114000	115000	62.3	65.4	1	75.0-125	V	V	0.272	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Plum Point Services Co., LLC

2739 SCR 623
Osceola, AR 72370

Billing Information:
Accounts Payable
P.O. Box 567
Osceola, AR 72370

Report to:
Melissa Vaught 501-920-9642

Email To:
mvaught@olsson.com;mclayton@olsson.com;a

Project Description:
Plum Point Energy Station

City/State Collected: Osceola AR

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
A24-01343

Lab Project #
NAESOAR-PLUMPOINT

Collected by (print):
Michael Clayton

Site/Facility ID #

P.O. #
2025-00048

Collected by (signature):
Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Pres Chk

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cl, F, SO4 125mlHDPE-NoPres	TDS 250mlHDPE-NoPres	Total B, Ca 250mlHDPE-HNO3	Remarks	Sample # (lab only)
MW-101	Grab	GW		4/14/25	1340	3	X	X	X		-01
MW-102		GW		4/14/25	1435	3	X	X	X		-02
MW-103		GW		4/14/25	1150	3	X	X	X		-03
MW-104		GW				3	X	X	X		
MW-108		GW				3	X	X	X		
MW-110		GW				3	X	X	X		
MW-113		GW				3	X	X	X		
MW-115		GW				3	X	X	X		
MW-116		GW		4/14/25	1650	3	X	X	X		-04
MW-117		GW		4/15/25	1230	3	X	X	X		-05

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1648443
A245

Acctnum: **NAESOAR**
Template: **T175308**
Prelogin: **P1139780**
PM: **134 - Mark W. Beasley**
PB:
Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: ✓Y __N
RAD Screen <0.5 mR/hr: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If pres	Time
Michael Clayton	4/15/25	1700		—		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 27	PH – 10BDH2631 TRC – 3227A333	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Dwyatt	Date: 4.16.25 Time: 0900	Hold:	Condition: NCF / OK

Company Name/Address:
Plum Point Services Co., LLC

2739 SCR 623
Osceola, AR 72370

Billing Information:
Accounts Payable
P.O. Box 567
Osceola, AR 72370

Pres Chk

Report to: **Melissa Vaught 501-920-9642**

Email To: **mvaught@olsson.com;mclayton@olsson.com;a**

Project Description: **Plum Point Energy Station**

City/State Collected: OSCEOLA AR

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project # **A24-01343**

Lab Project # **NAESOAR-PLUMPOINT**

Collected by (print): Michael Clayton

Site/Facility ID #

P.O. # **2025-00048**

Collected by (signature): Michael Clayton

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cl, F, SO4 125mlHDPE-NoPres	TDS 250mlHDPE-NoPres	Total B, Ca 250mlHDPE-HNO3	Remarks	Sample # (lab only)
MW-118	Grab	GW		4/15/25	1130	3	X	X	X		-06
MW-119		GW		4/14/25	1245	3	X	X	X		-07
MW-120		GW				3	X	X	X		
MW-121		GW		4/14/25	1540	3	X	X	X		-08
MW-113 DUP		GW		~~4/14/25~~	~~1305~~	3	X	X	X		
EPA EB-1		GW		4/14/25	1305	3	X	X	X		-09
		GW				3	X	X	X		
		GW				3	X	X	X		
		GW				3	X	X	X		

Chain of Custody Page 3 of 3

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # LX8498143

Table #

Acctnum: **NAESOAR**
Template: **T175308**
Prelogin: **P1139780**
PM: **134 - Mark W. Beasley**
PB:

Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Michael Clayton	4/15/25	1700		—	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 27	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Dayana G	Date: 4.16.25 Time: 0900	Hold: / Condition: NCF / OK

Multiple Parcel Form

L# LB1481143

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
449359285996	TL19	1.0	0.4	1.4	Yes / No / (Not Present)
443924510927	TL19	0.7	0.4	1.1	Yes / No / (Not Present)
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

Dwayne
Name

4.16.25
Date

ANALYTICAL REPORT

April 28, 2025

Plum Point Services Co., LLC

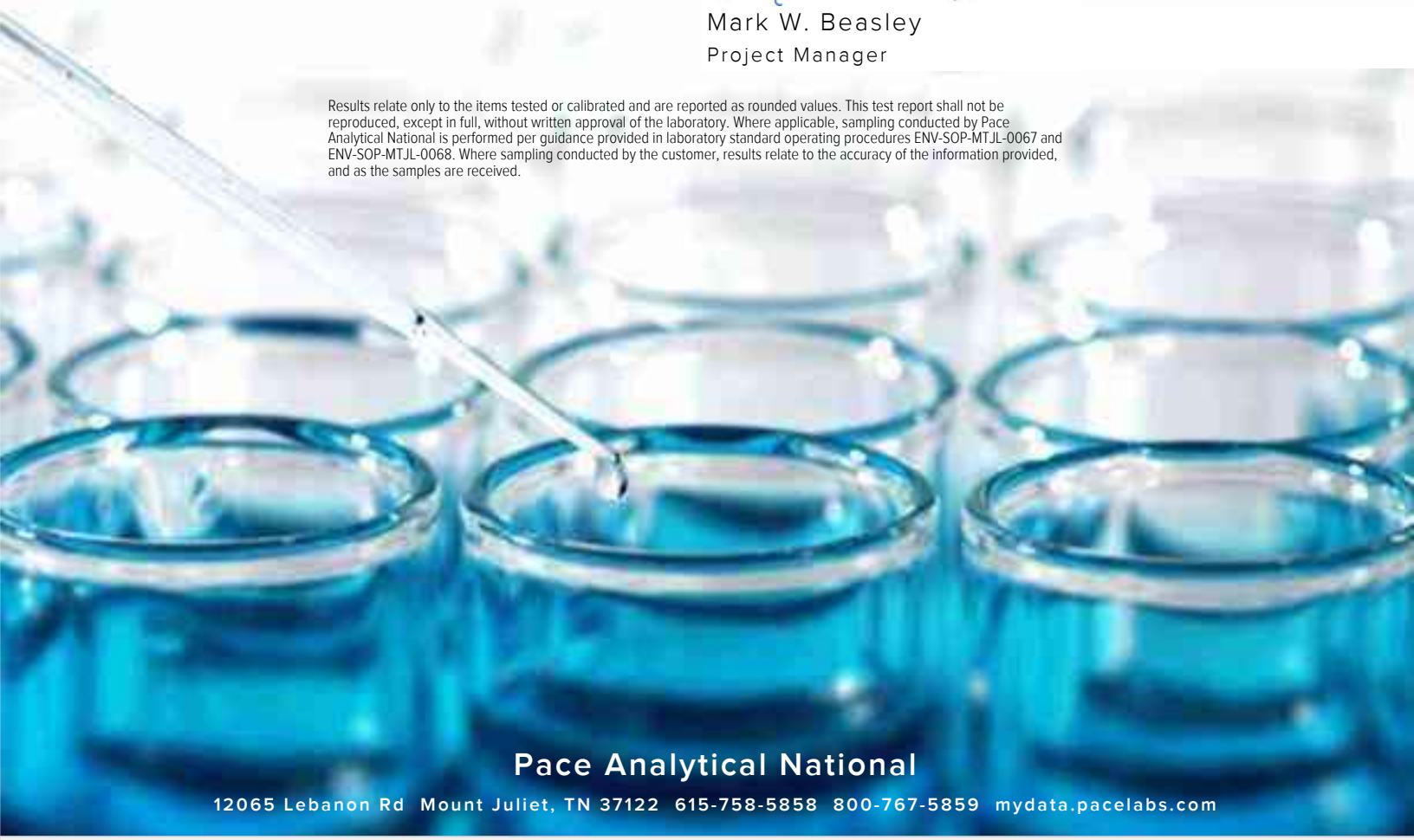
Sample Delivery Group:	L1850761
Samples Received:	04/12/2025
Project Number:	A24-01343
Description:	Plum Point Energy Station

Report To: Melissa Vaught
2739 SCR 623
Osceola, AR 72370

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

MW-104 L1850761-01 GW

Collected by: Michael Clayton
Collected date/time: 04/11/25 13:30
Received date/time: 04/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2497887	1	04/25/25 04:13	04/25/25 04:13	ZSA	Mt. Juliet, TN

MW-110 L1850761-02 GW

Collected by: Michael Clayton
Collected date/time: 04/11/25 12:05
Received date/time: 04/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2499742	1	04/28/25 03:14	04/28/25 11:30	MAP	Mt. Juliet, TN

MW-120 L1850761-03 GW

Collected by: Michael Clayton
Collected date/time: 04/11/25 14:35
Received date/time: 04/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2497887	1	04/25/25 04:29	04/25/25 04:29	ZSA	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	2040		547	1000	1	04/25/2025 04:13	WG2497887

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Calcium	75500		153	1000	1	04/28/2025 11:30	WG2499742

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Fluoride	225		76.1	150	1	04/25/2025 04:29	WG2497887

QUALITY CONTROL SUMMARY

L1850761-01,03

Method Blank (MB)

(MB) R4205031-1 04/25/25 01:13

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		547	1000
Fluoride	U		76.1	150

L1850597-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1850597-08 04/25/25 01:46 • (DUP) R4205031-3 04/25/25 02:02

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	934000	936000	5	0.202	E	15
Fluoride	621	552	5	11.8	J	15

L1850830-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1850830-04 04/25/25 06:23 • (DUP) R4205031-6 04/25/25 06:39

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	3270	3310	1	1.30		15
Fluoride		221	1	26.0	P1	15

Laboratory Control Sample (LCS)

(LCS) R4205031-2 04/25/25 01:30

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	38000	95.0	80.0-120	
Fluoride	8000	7780	97.3	80.0-120	

L1850597-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1850597-08 04/25/25 01:46 • (MS) R4205031-4 04/25/25 02:19 • (MSD) R4205031-5 04/25/25 02:35

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Fluoride	8000	621	7950	8000	91.6	92.2	5	80.0-120			0.599	15

L1850830-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1850830-04 04/25/25 06:23 • (MS) R4205031-7 04/25/25 06:56

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	3270	42400	97.7	1	80.0-120	

Method Blank (MB)

(MB) R4206302-1 04/28/25 11:37

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Calcium	U		153	1000

Laboratory Control Sample (LCS)

(LCS) R4206302-2 04/28/25 11:38

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Calcium	10000	9760	97.6	80.0-120	

L1850579-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1850579-02 04/28/25 11:40 • (MS) R4206302-4 04/28/25 11:44 • (MSD) R4206302-5 04/28/25 11:45

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Calcium	10000	126000	133000	132000	75.4	62.4	1	75.0-125		V	0.978	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Plum Point Services Co., LLC

2739 SCR 623
Osceola, AR 72370

Billing Information:
Accounts Payable
P.O. Box 567
Osceola, AR 72370

Pres Chk

Report to:
Melissa Vaught 501-920-9642

Email To:
mvaught@olsson.com;mclayton@olsson.com;a

Project Description:
Plum Point Energy Station

City/State Collected: Osceola, AR

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
A24-01343

Lab Project #
NAESOAR-PLUMPOINT

Collected by (print):
Michael Clayton

Site/Facility ID #

P.O. #
2025-00048

Collected by (signature):

Immediately Packed on Ice N ___ Y V

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cl, F, SO4 125mlHDPE-NoPres	TDS 250mlHDPE-NoPres	Total B, Ca 250mlHDPE-HNO3										
~~MW-101~~		GW				3	X	X	X										
~~MW-102~~		GW				3	X	X	X										
~~MW-103~~		GW				3	X	X	X										
MW-104	Grab	GW		4/11/25	1330	3	X	X	X									-01	
MW-108		GW		4/10/25	1400	3	X	X	X									-02	
MW-110		GW		4/11/25	1205	3	X	X	X									-03	-02
MW-113		GW		4/10/25	1244	3	X	X	X									-04	
MW-115		GW		4/10/25	1140	3	X	X	X									-05	
MW-116		GW				3	X	X	X										
MW-117		GW				3	X	X	X										

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # ~~L1847449~~ Y195 L1850761 4/23/25

Acctnum: **NAESOAR**
Template: **T175308**
Prelogin: **P1139782**
PM: **134 - Mark W. Beasley**
PB: 03/26/25 LG
Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4495 5928 6025

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Michael Clayton	4/11/25	1730		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: TUB 0.9+0.4=1.2 21
				If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/12/25 Time: 0900
				Hold:

Condition NCF / OK

Company Name/Address:
Plum Point Services Co., LLC

2739 SCR 623
Osceola, AR 72370

Billing Information:
Accounts Payable
P.O. Box 567
Osceola, AR 72370

Pres Chk

Report to:
Melissa Vaught 501-920-9642

Email To:
mvaught@olsson.com;mclayton@olsson.com;a

Project Description:
Plum Point Energy Station

City/State Collected: Osceola Ar

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
A24-01343

Lab Project #
NAESOAR-PLUMPOINT

Collected by (print):
Michael Clayton

Site/Facility ID #

P.O. #
2025-00048

Collected by (signature):

Immediately
Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Pa

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # ~~184749~~

Table # L1850761

Acctnum: **NAESOAR**

Template:**T175308**

Prelogin: **P1139782**

PM: 134 - Mark W. Beasley

PB: 03/26/25G

Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cl, F, SO4 125mlHDPE-NoPres	TDS 250mlHDPE-NoPres	Total B, Ca 250mlHDPE-HNO3	Remarks	Sample # (lab only)
MW-118		GW				3	X	X	X		
MW-119		GW				3	X	X	X		
MW-120		GW		4/11/25	1435	3	X	X	X		~~-06~~ -03
MW-121		GW				3	X	X	X		
MW-113 DUP		GW		4/10/25	1245	3	X	X	X		~~-07~~
EPA EB-1		GW				3	X	X	X		
		GW				3	X	X	X		
		GW				3	X	X	X		
		GW				3	X	X	X		

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__UPS ✓FedEx __Courier _____

Tracking # 4493 5928 6025

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: ✓Y N
Bottles arrive intact: ✓Y N
Correct bottles used: ✓Y N
Sufficient volume sent: ✓Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: ✓Y N
RAD Screen <0.5 mR/hr: ✓Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	4/11/25	1730			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: TUA 9+10.4: 1.2 21	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/12/25 Time: 0900	Hold: Condition: NCF / OK

L1847497 *NAESOAR* relog

R2/R3/R4/RX/EX

Relog the following as EX due 4/28:

L1847497-01 CHLORIDE

L1847497-03 CAICP

L1847497-06 FLUORIDE

• • *

From: Melissa Vaught

Sent: Wednesday, April 23, 2025 8:40 AM

To: Mark Beasley

Cc: Andrew Pruitt

Subject: RE: Pace Analytical National Level II Report for A24-01343 Plum Point Energy Station L1847497

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Mark – For this data set, could you have the lab double check the calculations for the well/parameter pairs below and if confirmed, rerun
if within hold?

MW-110: calcium

MW-104: chloride

MW-120: fluoride

Questions, please let us know.

Melissa

NOTICE-- The contents of this email and any attachments may contain confidential, privileged, and/or legally protected information and are for the sole use of the addressee(s). Any review or distribution by others is strictly prohibited. If you are not
the intended recipient, please contact the sender immediately and delete any copies.

P Please consider the environment before printing this email

Time estimate: oh **Time spent:** oh

Members

MB Mark Beasley (responsible)

ANALYTICAL REPORT

July 14, 2025

Plum Point Services Co., LLC

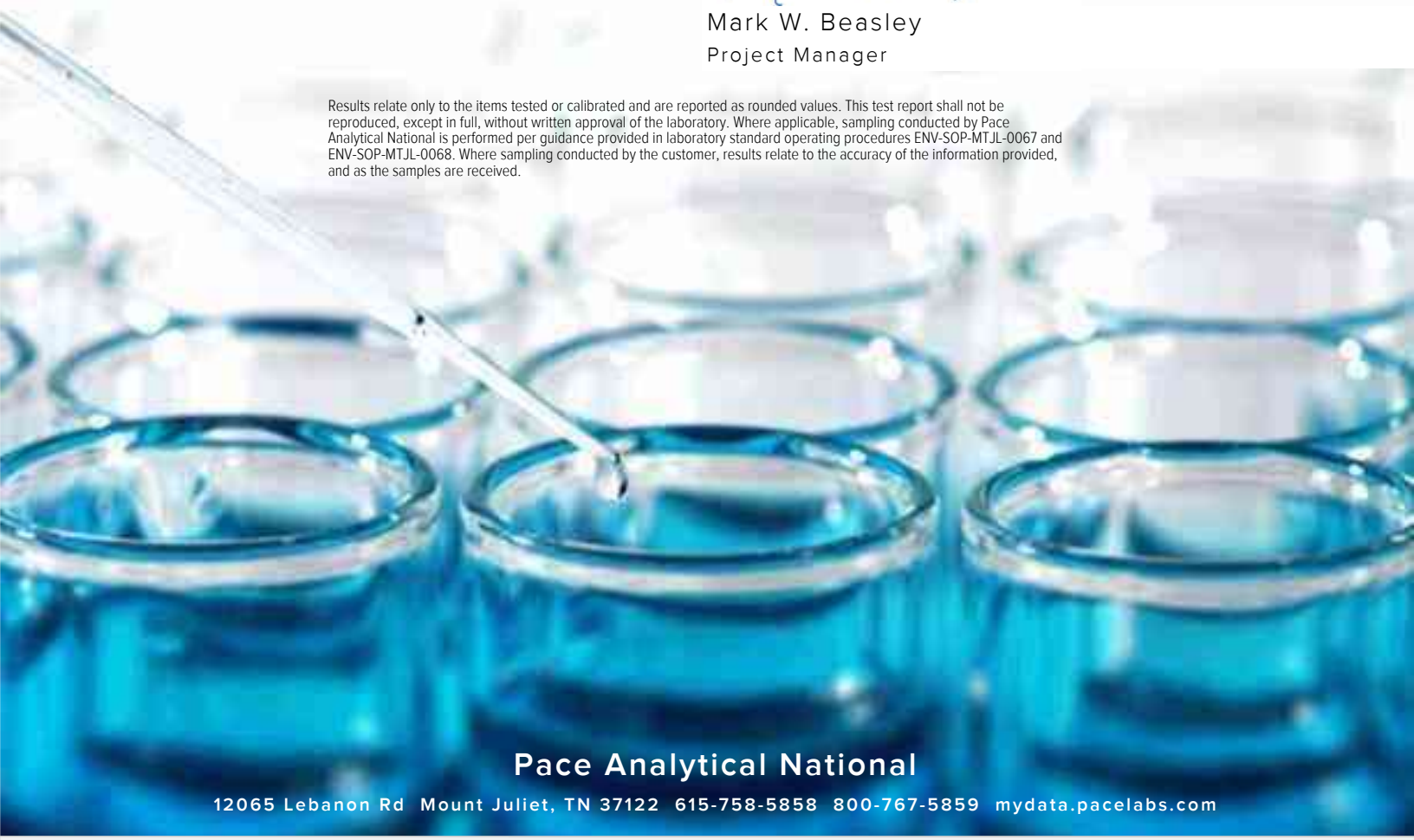
Sample Delivery Group:	L1875945
Samples Received:	07/03/2025
Project Number:	A24-01343
Description:	PPES EPA Program

Report To: Melissa Vaught
2739 SCR 623
Osceola, AR 72370

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MW-102 L1875945-01

Collected by: Michael Clayton | Collected date/time: 07/02/25 12:30 | Received date/time: 07/03/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2553160	1	07/05/25 07:32	07/07/25 08:52	BDC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2553064	10	07/09/25 23:25	07/09/25 23:25	AJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2555367	1	07/11/25 22:31	07/13/25 11:30	MAP	Mt. Juliet, TN

MW-102 DUP L1875945-02

Collected by: Michael Clayton | Collected date/time: 07/02/25 12:35 | Received date/time: 07/03/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2553160	1	07/05/25 07:32	07/07/25 08:52	BDC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2553064	10	07/09/25 23:38	07/09/25 23:38	AJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2555367	1	07/11/25 22:31	07/13/25 11:19	MAP	Mt. Juliet, TN

MW-104 L1875945-03

Collected by: Michael Clayton | Collected date/time: 07/01/25 18:10 | Received date/time: 07/03/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2553064	1	07/09/25 23:50	07/09/25 23:50	AJC	Mt. Juliet, TN

MW-110 L1875945-04

Collected by: Michael Clayton | Collected date/time: 07/01/25 17:00 | Received date/time: 07/03/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2553156	1	07/05/25 10:36	07/07/25 14:33	BDC	Mt. Juliet, TN

MW-115 L1875945-05

Collected by: Michael Clayton | Collected date/time: 07/01/25 16:15 | Received date/time: 07/03/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2553064	1	07/10/25 00:03	07/10/25 00:03	AJC	Mt. Juliet, TN

MW-116 L1875945-06

Collected by: Michael Clayton | Collected date/time: 07/02/25 11:25 | Received date/time: 07/03/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2553154	1	07/04/25 12:34	07/05/25 09:42	AMG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2555367	1	07/11/25 22:31	07/13/25 11:20	MAP	Mt. Juliet, TN

EPA EB-2 L1875945-07

Collected by: Michael Clayton | Collected date/time: 07/02/25 12:55 | Received date/time: 07/03/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2553158	1	07/05/25 11:10	07/05/25 11:10	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2553064	1	07/10/25 00:16	07/10/25 00:16	AJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2555367	1	07/11/25 22:31	07/13/25 11:22	MAP	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	852000		13300	1	07/07/2025 08:52	WG2553160

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	258000		6370	50000	10	07/09/2025 23:25	WG2553064

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	415		23.2	200	1	07/13/2025 11:30	WG2555367

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	841000		13300	1	07/07/2025 08:52	WG2553160

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	259000		6370	50000	10	07/09/2025 23:38	WG2553064

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	412		23.2	200	1	07/13/2025 11:19	WG2555367

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	1980		547	1000	1	07/09/2025 23:50	WG2553064
Sulfate	6690		637	5000	1	07/09/2025 23:50	WG2553064

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	326000	J4	10000	1	07/07/2025 14:33	WG2553156

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	6890		637	5000	1	07/10/2025 00:03	WG2553064

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	570000		10000	1	07/05/2025 09:42	WG2553154

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Calcium	154000		153	1000	1	07/13/2025 11:20	WG2555367

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10000	1	07/05/2025 11:10	WG2553158

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	U		547	1000	1	07/10/2025 00:16	WG2553064
Sulfate	U		637	5000	1	07/10/2025 00:16	WG2553064

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	U		23.2	200	1	07/13/2025 11:22	WG2555367
Calcium	U		153	1000	1	07/13/2025 11:22	WG2555367

Method Blank (MB)

(MB) R4241941-1 07/05/25 09:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Dissolved Solids	U		10000	10000

L1874993-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1874993-01 07/05/25 09:42 • (DUP) R4241941-3 07/05/25 09:42

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1460000	1470000	1	0.681		10

L1875956-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1875956-03 07/05/25 09:42 • (DUP) R4241941-4 07/05/25 09:42

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	189000	189000	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R4241941-2 07/05/25 09:42

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800000	8700000	98.9	90.0-110	

L1875769-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1875769-04 07/07/25 14:33 • (DUP) R4243025-3 07/07/25 14:33

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	308000	308000	1	0.000		10

Sample Narrative:

OS: Duplicate Analysis performed due to QC failure. Results confirm; reporting both results.

L1875956-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1875956-05 07/07/25 14:33 • (DUP) R4243025-4 07/07/25 14:33

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	223000	223000	1	0.000		10

Sample Narrative:

OS: Duplicate Analysis performed due to QC failure. Results confirm; reporting both results.

Laboratory Control Sample (LCS)

(LCS) R4243025-2 07/07/25 14:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800000	7550000	85.8	90.0-110	J4

Method Blank (MB)

(MB) R4241955-1 07/05/25 11:10

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Dissolved Solids	U		10000	10000

L1875769-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1875769-03 07/05/25 11:10 • (DUP) R4241955-3 07/05/25 11:10

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	239000	242000	1	1.25		10

L1875948-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1875948-06 07/05/25 11:10 • (DUP) R4241955-4 07/05/25 11:10

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	ND	ND	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R4241955-2 07/05/25 11:10

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800000	8670000	98.5	90.0-110	

Method Blank (MB)

(MB) R4242677-1 07/07/25 08:52

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Dissolved Solids	U		10000	10000

L1875927-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1875927-01 07/07/25 08:52 • (DUP) R4242677-3 07/07/25 08:52

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	253000	257000	1	1.57		10

L1875956-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1875956-02 07/07/25 08:52 • (DUP) R4242677-4 07/07/25 08:52

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	212000	212000	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R4242677-2 07/07/25 08:52

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800000	8630000	98.1	90.0-110	

Method Blank (MB)

(MB) R4243256-1 07/09/25 19:01

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		547	1000
Sulfate	U		637	5000

L1875769-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1875769-16 07/09/25 19:27 • (DUP) R4243256-3 07/09/25 19:39

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	7070	7020	1	0.640		15
Sulfate	4370	4380	1	0.210	J	15

L1875927-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1875927-03 07/09/25 22:35 • (DUP) R4243256-6 07/09/25 22:48

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	623	606	1	2.82	J	15
Sulfate	9590	9760	1	1.77		15

Laboratory Control Sample (LCS)

(LCS) R4243256-2 07/09/25 19:14

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	37500	93.7	80.0-120	
Sulfate	40000	38600	96.5	80.0-120	

L1875769-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1875769-16 07/09/25 19:27 • (MS) R4243256-4 07/09/25 19:52 • (MSD) R4243256-5 07/09/25 20:04

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	7070	43800	43900	91.9	92.1	1	80.0-120			0.120	15
Sulfate	40000	4370	41900	41900	93.9	93.7	1	80.0-120			0.220	15

L1875927-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1875927-03 07/09/25 22:35 • (MS) R4243256-7 07/09/25 23:00

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	623	39200	96.5	1	80.0-120	
Sulfate	40000	9590	46600	92.5	1	80.0-120	

Method Blank (MB)

(MB) R4244372-1 07/13/25 11:27

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Boron	U		23.3	200
Calcium	U		153	1000

Laboratory Control Sample (LCS)

(LCS) R4244372-2 07/13/25 11:29

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Boron	1000	982	98.2	80.0-120	
Calcium	10000	10200	102	80.0-120	

L1875945-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1875945-01 07/13/25 11:30 • (MS) R4244372-4 07/13/25 11:34 • (MSD) R4244372-5 07/13/25 11:36

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Boron	1000	415	1400	1390	98.0	97.8	1	75.0-125			0.148	20
Calcium	10000	197000	204000	205000	67.9	81.6	1	75.0-125	V		0.670	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Plum Point Services Co., LLC
2739 SCR 623
Osceola, AR 72370

Billing Information:
Accounts Payable
P.O. Box 567
Osceola, AR 72370

Pres Chk

Report to: **Melissa Vaught 501-920-9642**

Email To: **mvaught@olsson.com;mclayton@olsson.com;a**

Project Description: **PPES EPA Program**

City/State Collected: Osceola AR

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project # **A24-01343**

Lab Project # **NAESOAR-PLUMPOINT**

Collected by (print): Michael Clayton

Site/Facility ID #

P.O. # **2025-00048**

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cl, SO4 125mlHDPE-NoPres	SULFATE 125mlHDPE-NoPres	Sulfate 125mlHDPE-NoPres	TDS 1L-HDPE NoPres	Total B 250mlHDPE-HNO3	Total B, Ca 250mlHDPE-HNO3	Total Ca 250mlHDPE-HNO3	Remarks	Sample # (lab only)
MW-102	Grab	GW		7/2/25	1230	3		X		X	X				-01
MW-102 DUP		GW		7/2/25	1235	3		X		X	X				-02
MW-104		GW		7/1/25	1810	1	X								-03
MW-110		GW		7/1/25	1700	1				X					-04
MW-115		GW		7/1/25	1615	1			X						-05
MW-116		GW		7/2/25	1125	2				X			X		-06
EPA EB-2		GW		7/2/25	1255	3	X			X		X			-07

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 1875945
D047

Acctnum: **NAESOAR**
Template: **T275933**
Prelogin: **P1160148**
PM: **134 - Mark W. Beasley**
PB:

Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 458063117661

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	7/2/25	1800		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
				1.4-0.4=5.9 14
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:
				7/3/25 0900

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

ALTERNATE SOURCE DEMONSTRATION FOR SECOND HALF 2025 STATISTICALLY SIGNIFICANT RESULTS

MEMO

To:	Plum Point Services Company, LLC Attn: Mr. Matt Gray 2732 South County Road 623 Osceola, AR 72370
From:	Melissa Vaught, PE; Andrew Pruitt, PG
RE:	Alternate Source Demonstration for Statistically Significant Increases, Second Half of 2025 Monitoring Period, Plum Point Energy Station Landfill
Date:	January 21, 2026
Project #:	A24-01343

Olsson has prepared this technical memorandum for the Plum Point Services Company, LLC (PPSC), coal combustion residuals (CCR) landfill, which is regulated by the US Environmental Protection Agency (EPA) Coal Combustion Residuals Rule, promulgated in Title 40 of the Code of Federal Regulations (40 CFR), Part 257. The landfill is also regulated by Title 8, Part 60 of the Code of Arkansas Rules (8 CAR 60) and permitted by the Arkansas Department of Energy & Environment, Division of Environmental Quality (DEQ), under permit no. 0303-S3N-R2.

Olsson performed groundwater sampling and statistical analysis of the data for the second half of 2025 monitoring period. Based on statistical evaluation of the data, five confirmed statistically significant increases (SSIs) over background concentrations were identified. Pursuant to §257.94(e)(2), the landfill may demonstrate that a source other than the CCR unit caused an SSI over background levels for a constituent or that an SSI resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. This memorandum, hereafter referred to as an alternate source demonstration (ASD), presents evidence that the confirmed SSIs are the result of off-site influence and/or natural fluctuations in groundwater quality.

1. BACKGROUND

Olsson performed groundwater sampling for the second half 2025 semiannual groundwater monitoring period during October 2025. Sample collection, preservation, shipment, analytical procedures, chain-of-custody control, and data quality control for this sampling event followed protocol outlined in the landfill's groundwater sampling and analysis plan (GWSAP) (FTN Associates, Ltd. [FTN] 2017b). Statistical evaluation of the data set followed the most recent EPA guidance (EPA 2009) and the landfill's statistical analysis plan (SAP) (FTN 2017c). An intrawell prediction limit evaluation identified five previously confirmed SSIs for boron, sulfate and total dissolved solids (TDS) at MW-102, and chloride and sulfate at MW-104, and eight unverified SSIs for chloride, fluoride and TDS at MW-117, calcium, sulfate and TDS at MW-118 and calcium and TDS at MW-121. A site map showing the locations of the wells with confirmed and unverified SSIs relative to the CCR unit (cells 1 through 3) is included as Figure 1 (all figures are included in Attachment 1).

Verification sampling for the eight unverified SSIs was performed on December 16, 2025, in accordance with the GWSAP and SAP (FTN 2017b, 2017c). Intrawell prediction limit plots showing the results of verification sampling are included in Attachment 2. As shown on the prediction limit plots in Attachment 2 and in Table 1 (Attachment 3), results from verification sampling were below the prediction limits for the eight unverified SSIs and the SSIs were not confirmed.

In accordance with §257.94(e)(2), the previously confirmed SSIs for boron, sulfate and TDS at MW-102, and chloride and sulfate at MW-104 were addressed in the first half of 2025 ASD dated October 8, 2025, and included in the 2025 Annual Report dated January 21, 2026. The ASD successfully demonstrated that the SSIs were not the result of influence from the CCR unit.

The laboratory reports for the October and December 2025 sampling events are included in Attachment 4.

2. DISCUSSION

A review of the monitoring system with respect to onsite background wells, background groundwater quality, published literature, and landfill leachate quality was performed to determine if the confirmed SSIs were indicative of a release from the CCR unit. Findings from this review are discussed below.

2.1 Monitoring System Background Wells

As required by §257.91(c)(1), the groundwater monitoring network is required to contain a minimum of one monitoring well that is hydraulically upgradient of the CCR management area for the purpose of monitoring background water quality. However, there is not a hydraulically upgradient location at this facility because the direction of groundwater flow is seasonably variable. As allowed by §257.91(a)(1), a facility may utilize wells for background water quality that are not hydraulically upgradient of the CCR unit. For this reason, the facility incorporated monitoring wells MW-108, MW-113, and MW-115 (Figure 1) to monitor background water quality because those wells are positioned outside the potential zone of impact from the CCR unit. The rationale for this is based on the age of the landfill; the estimated maximum rate of groundwater flow; and the distance of MW-108, MW-113, and MW-115 from the CCR unit. Specifically:

- MW-108, MW-113, and MW-115 are located more than 2,300 ft from the eastern edge of cell 3;
- Groundwater at the landfill has historically exhibited a maximum flow rate of 50 ft/year; and
- The landfill became active during March 2010.

Using the information available above, a potential leachate plume would not be expected to have migrated more than 790 ft from the CCR unit as of the second half 2025 monitoring event. This estimate is conservative for the following reasons:

1. It assumes impact to groundwater occurred at the same time cell 1 was activated (March 2010) and does not account for travel time through the confining unit soils;
2. It assumes that groundwater flows in one direction; however, it is well-documented that groundwater flow at the landfill is multidirectional and reverses flow on a seasonal basis (FTN 2017a); and
3. It does not account for any physical or chemical properties of the constituents of concern that would cause them to travel at rates slower than groundwater (e.g., adsorption).

2.2 Comparison to Onsite Background Groundwater Quality

Table 1 (Attachment 3) summarizes select groundwater quality data from onsite background wells, MW-108, MW-113, and MW-115. As shown in Table 1, measured values for the confirmed SSIs identified in the second half of 2025 monitoring period are generally lower than onsite background values. This comparison provides supporting evidence that the SSIs identified at compliance wells (boron, sulfate, and TDS at MW-102, and chloride and sulfate at MW-104), reflect offsite influence and/or natural fluctuations in groundwater quality.

2.3 Comparison to Published Groundwater Quality for the Aquifer

Each monitoring well is screened in the Mississippi River Valley alluvial aquifer, the uppermost aquifer in the vicinity of the landfill (FTN 2017b). The United States Geological Survey published a study of groundwater quality of the aquifer, specifically with respect to that of Holocene alluvium and Pleistocene valley train deposits, which are two of the major hydrogeologic units within the aquifer (Gonthier 2003). The landfill is located in Holocene alluvium, as shown on Figure 2 (Attachment 1). According to this study, wells screened in Holocene alluvium had maximum measured concentrations of 140 mg/L for chloride, 120 mg/L for sulfate, and 728 mg/L for TDS. As shown in Table 1 (Attachment 3), published levels for the aquifer are generally above the measured values for the confirmed SSIs. This comparison provides supporting evidence that the currently measured values for sulfate and TDS at MW-102, and chloride and sulfate at MW-104 reflect natural fluctuations in groundwater quality.

2.4 Comparison to Landfill Leachate

The major ion composition of leachate and groundwater samples collected during April 2025 was evaluated using the Stiff and Piper diagrams included in Attachment 2. These data are collected on a semiannual basis for the landfill's APCEC 8 CAR 60 monitoring program, as required by permit no. 0303-S3N-R2, and are publicly available on the DEQ website[1]. If groundwater has been impacted by landfill leachate, the relative proportions of major ions in groundwater will resemble those in leachate.

A review of the Stiff diagrams shows that the ionic distribution in groundwater at MW-102 and MW-104, is similar to the ionic distribution at background wells MW-108, MW-113, and MW-115. In contrast, the leachate diagram is distinctly different. Specifically, the leachate sample exhibits concentrations of sodium, potassium, and sulfate ions that are comparatively absent in groundwater. The Piper diagram also illustrates the dissimilarity of groundwater quality to leachate, with data for background wells MW-108, MW-113, and MW-115 and compliance wells MW-102 and MW-104 clustered in the quadrant classified as calcium-bicarbonate-type waters and positioned apart from the leachate data, which is located in the sodium-chloride-type water. If leachate was mixing with groundwater at MW-102 and MW-104, the data for those wells would plot at an intermediate distance between the leachate data and the data for background wells MW-108, MW-113, and MW-115 on the diamond-shaped field of the Piper diagram.

The Stiff and Piper diagrams show that the relative proportions of major ions in groundwater at compliance wells MW-102 and MW-104 are different than landfill leachate, providing a key line of evidence that the confirmed SSIs for boron, sulfate and TDS at MW-102, and chloride and sulfate at MW-104 are not due to a release from the CCR unit.

3. CONCLUSIONS

In consideration of the information presented in this memorandum, Olsson concludes that the confirmed SSIs for boron, sulfate and TDS at MW-102, and chloride and sulfate at MW-104 are the result of off-site influence and/or natural fluctuations in groundwater quality.

This memorandum serves as the ASD prepared in accordance with §257.94(e)(2) and supports the position that the confirmed SSIs for boron, sulfate and TDS at MW-102, and chloride and sulfate at MW-104 are not due to a release from the CCR unit. Therefore, no further action is required, and the landfill will remain in detection monitoring.

If you have questions or comments regarding this memorandum, please do not hesitate to call Andrew Pruitt, PG, at 501.225.7779, or Melissa Vaught, PE, at 479.443.3404.

[1] https://www.adeq.state.ar.us/sw/permits/facility_data.aspx

REFERENCES

EPA [US Environmental Protection Agency]. 2009. *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance* [EPA 530-R-09-007]. Washington, DC: Office of Resource Conservation and Recovery, Program Implementation and Information Division, US Environmental Protection Agency. March 2009.

FTN [FTN Associates, Ltd.]. 2017a. *Groundwater Monitoring Network Evaluation, Plum Point Energy Station Landfill*. Little Rock, AR: FTN Associates, Ltd.

———. 2017b. *Groundwater Sampling and Analysis Plan, Plum Point Energy Station Landfill*. Little Rock, AR: FTN Associates, Ltd.

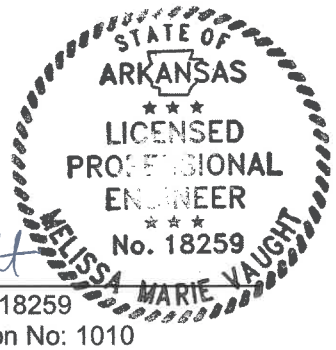
———. 2017c. *Statistical Analysis Plan, Plum Point Energy Station Landfill.* Little Rock, AR: FTN Associates, Ltd.

Gonthier, G.J. 2003. *Quality of Groundwater in Pleistocene and Holocene Subunits of the Mississippi River Alluvial Aquifer, 1998* [Water-Resources Investigations Report 03-4202]. Jackson, MS: National Water-Quality Assessment Program, US Geological Survey.

Kresse, T.M., P.D. Hays, K.R. Merriman, J.A. Gillip, D.T. Fugitt, J.L. Spellman, A.M. Nottmeier, D.A. Westerman, J.M. Blackstock, and J.L. Battreal. 2014. *Aquifers of Arkansas—Protection, Management, and Hydrologic and Geochemical Characteristics of Groundwater Resources in Arkansas* [Scientific Investigations Report 2014–5149]. Prepared in cooperation with the Arkansas Natural Resources Commission. Reston, VA: US Geological Survey. 334 pp. doi: http://dx.doi.org/10.3133/sir20145149.

PROFESSIONAL ENGINEER'S CERTIFICATION

With this certification, I certify that I, as a professional engineer in the state of Arkansas, am a qualified professional engineer as defined in §257.53 of Title 40 of the Code of Federal Regulations (CFR), Part 257, that this technical memorandum has been prepared under my direction in accordance with generally accepted good engineering practices, that the findings are accurate to the best of my knowledge, and that the alternate source demonstration described herein meets the requirements of §257.94(e)(2) of 40 CFR Part 257.

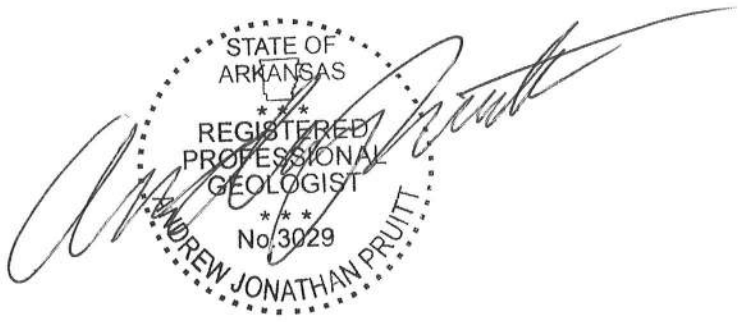


Melissa M. Vaught, Arkansas PE #18259
Arkansas Certificate of Authorization No: 1010

1/21/2026
Date

PROFESSIONAL GEOLOGIST'S CERTIFICATION

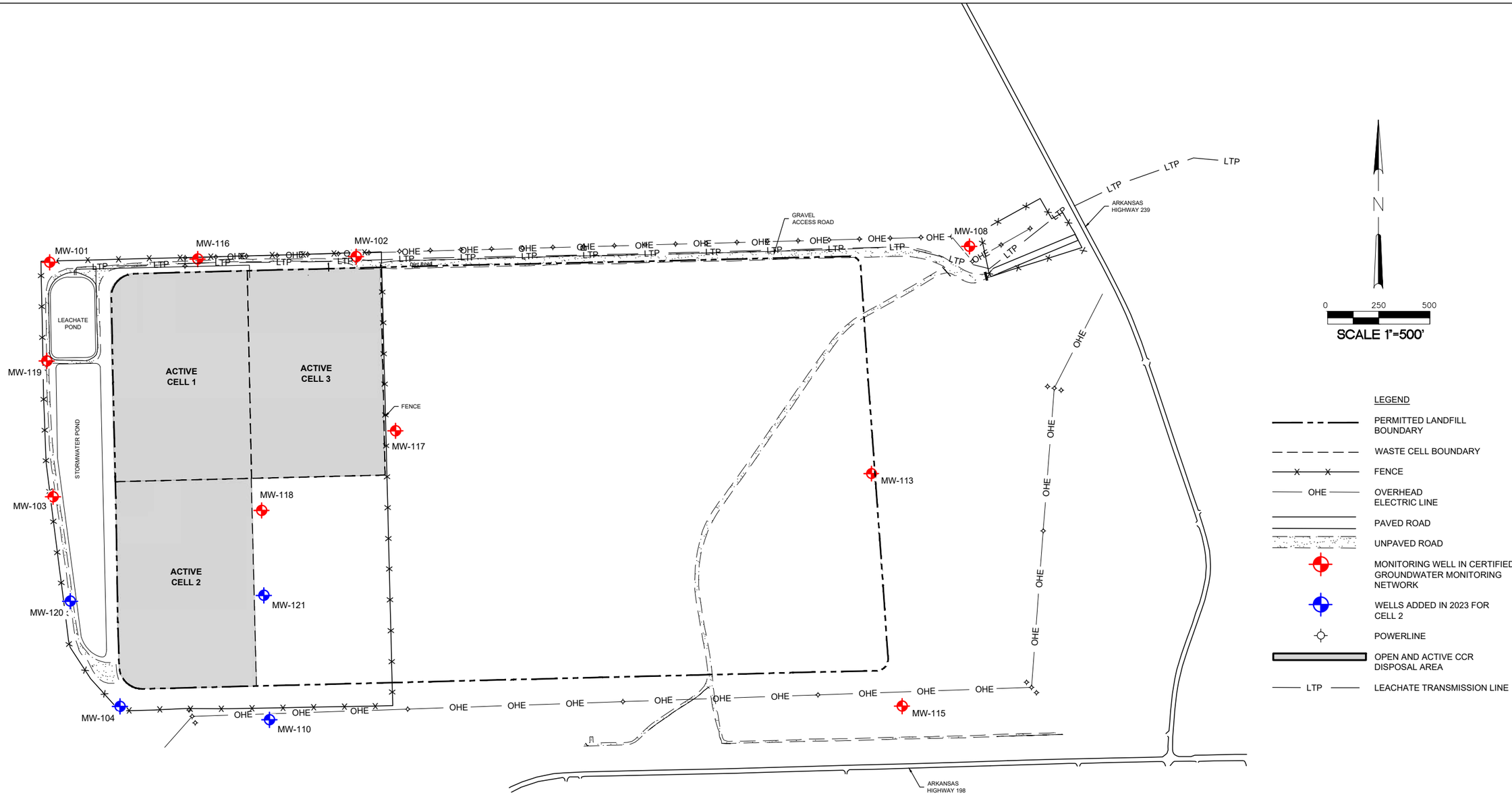
With this certification, I certify that I, as a professional geologist in the state of Arkansas, am a qualified groundwater scientist as defined in §60-1201(f) of Title 8, Part 60 of the Code of Arkansas Rules, that I have reviewed this technical memorandum, that the findings are accurate to the best of my knowledge, and that the alternate source demonstration described herein meets the requirements of §257.94(e)(2) of 40 CFR Part 257.



Andrew J. Pruitt, Arkansas PG #3029

1/27/2026
Date

ATTACHMENT 1
FIGURES



R:\projects\14590-3336-001\cad\dwg\EPA\2H2024 ASD\14590-3336-001-EPA-2h2024 ASD-FG01.dwg
DATE: Jan 14, 2025 2:43pm USER: jtorres

PROJECT NO:	024-01343
DRAWN BY:	JT
DATE:	11.15.2024

Figure 1. Monitoring well location map.

olsson
3 Innwood Circle
Suite 220
Little Rock, AR 72211
olsson.com
TEL 501.225.7779
Olsson - Engineering
Arkansas COA #1010

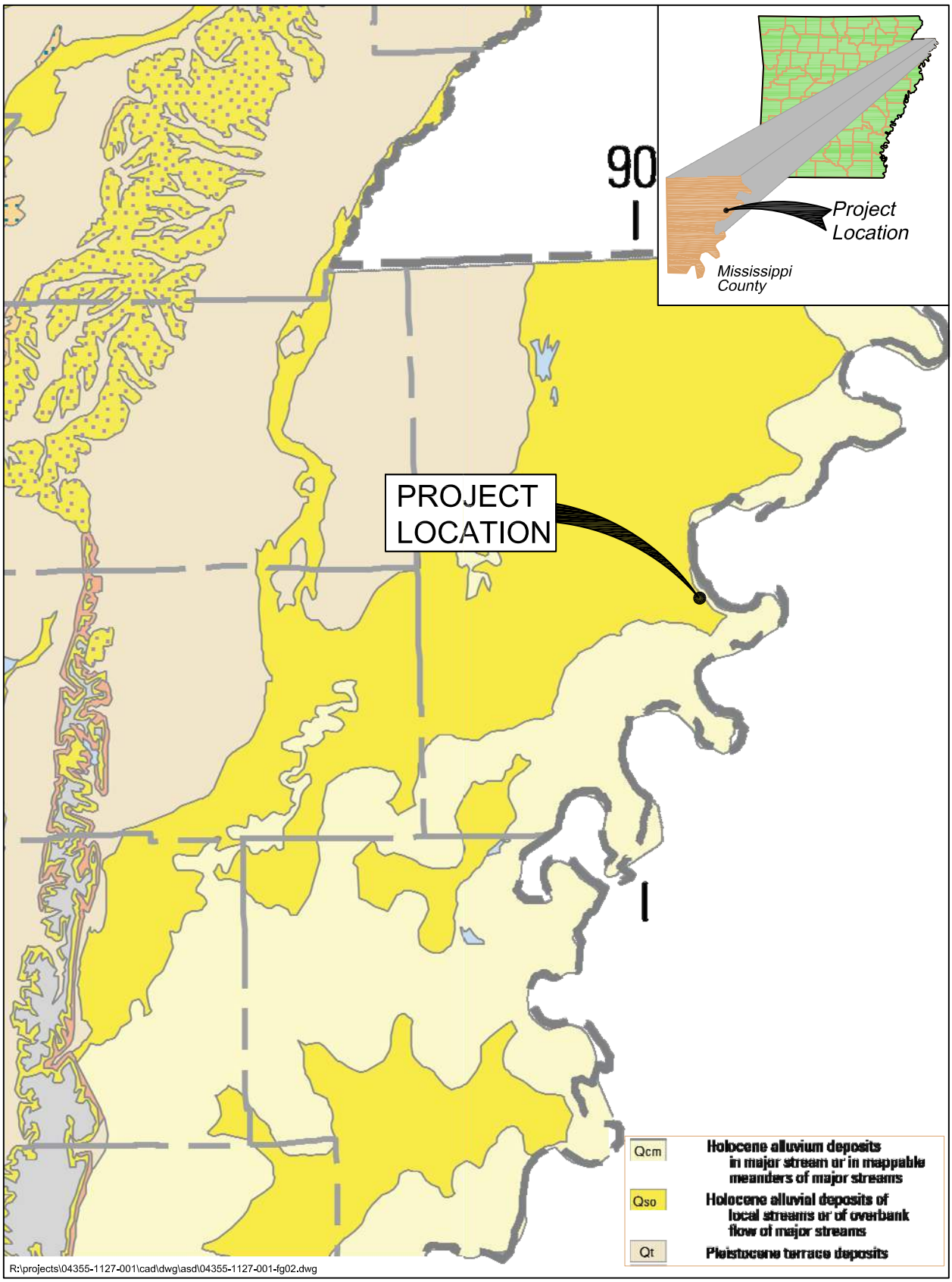


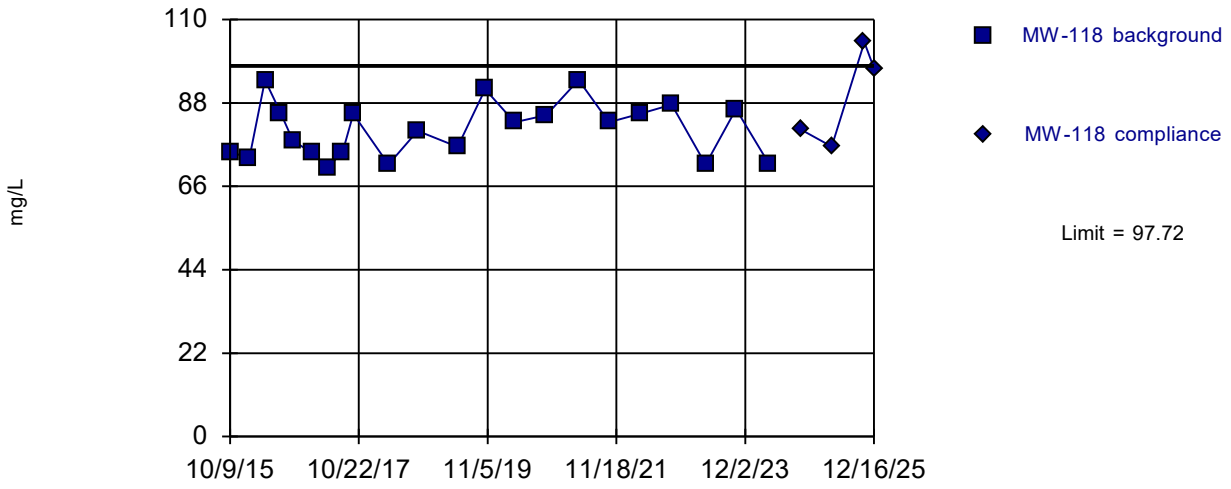
Figure 2. Surface geology of Mississippi County, Arkansas (adapted from Kresse et al. 2014).

ATTACHMENT 2
STATISTICAL PLOTS

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=80.9, Std. Dev.=7.405, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9248, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Calcium Analysis Run 12/31/2025 11:42 AM View: Prediction Limits

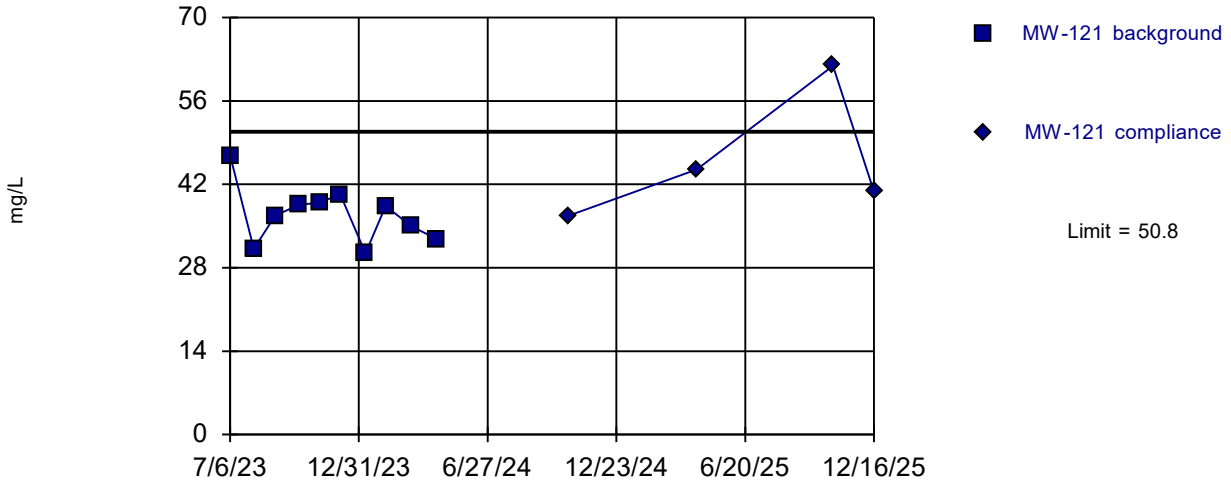
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.03a Software licensed to Olsson. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=36.91, Std. Dev.=4.894, n=10. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9463, critical = 0.781. Kappa = 2.838 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Calcium Analysis Run 12/31/2025 11:42 AM View: Prediction Limits

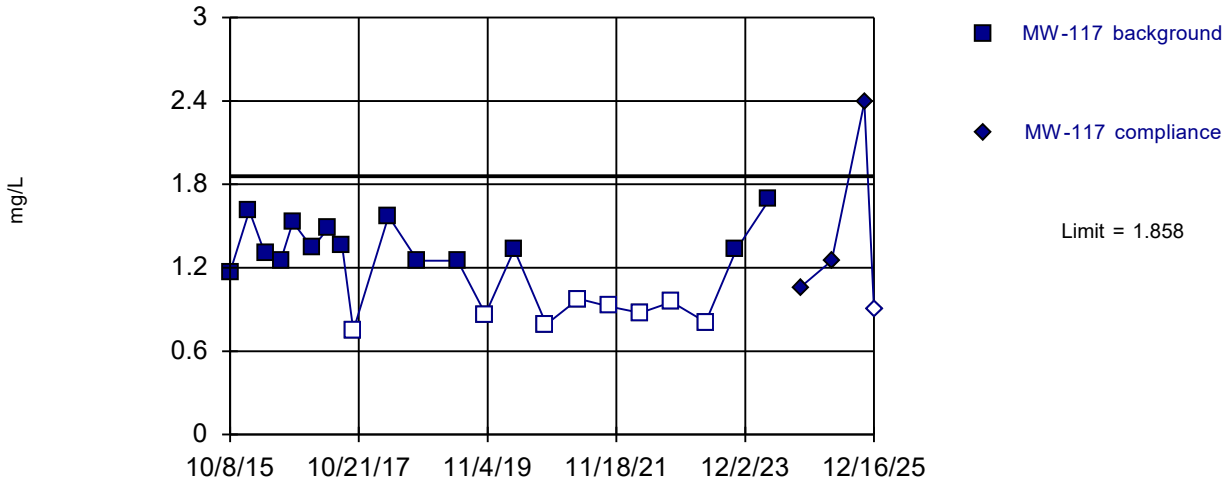
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.03a Software licensed to Olsson. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.2, Std. Dev.=0.2897, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9385, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 12/31/2025 11:42 AM View: Prediction Limits

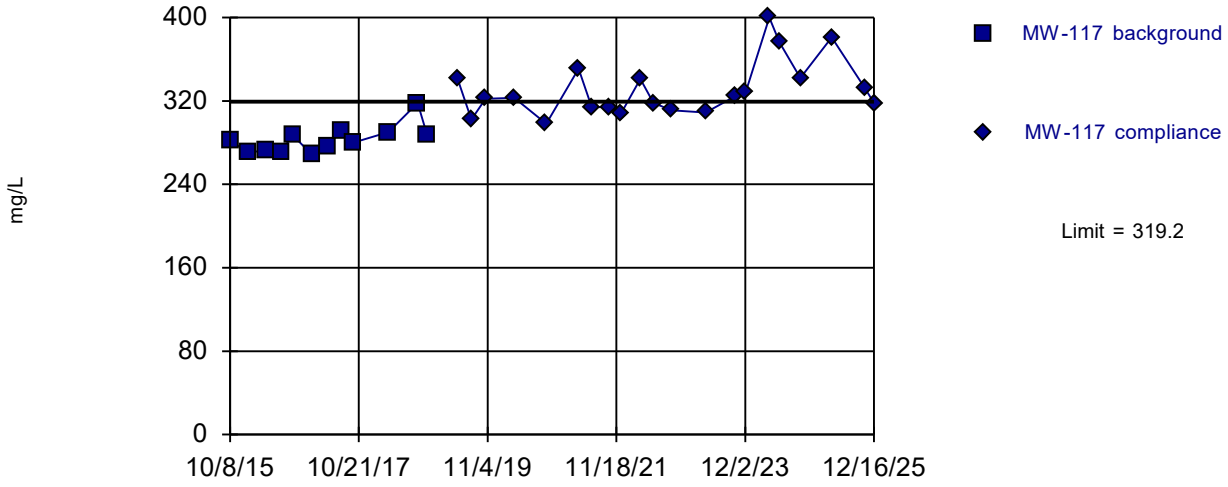
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.03a Software licensed to Olsson. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=282.9, Std. Dev.=13.75, n=12. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.861, critical = 0.805. Kappa = 2.643 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

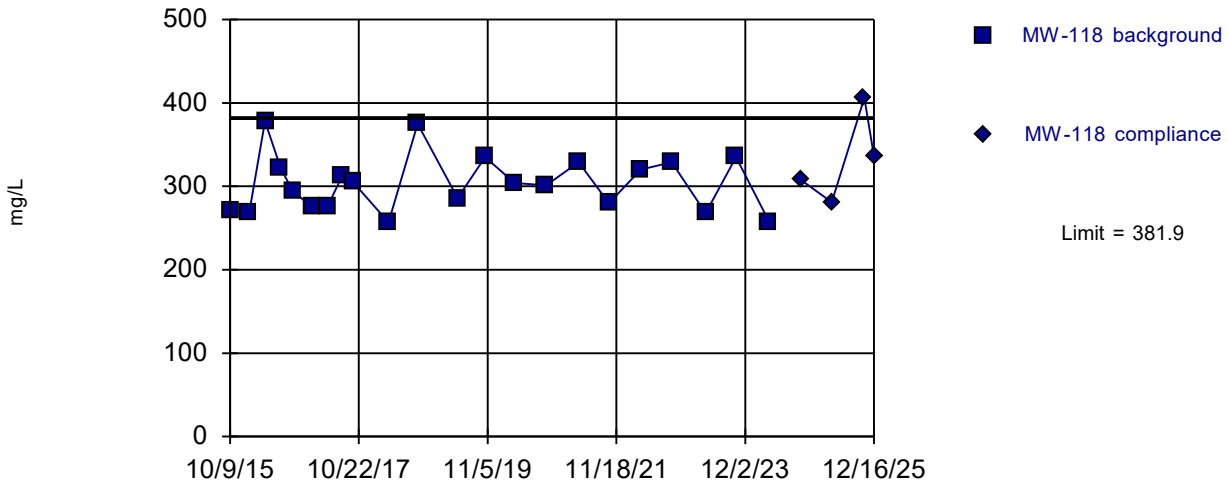
Constituent: Dissolved Solids Analysis Run 12/31/2025 11:42 AM View: Prediction Limits

Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=303.6, Std. Dev.=34.45, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9357, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Dissolved Solids Analysis Run 12/31/2025 11:42 AM View: Prediction Limits

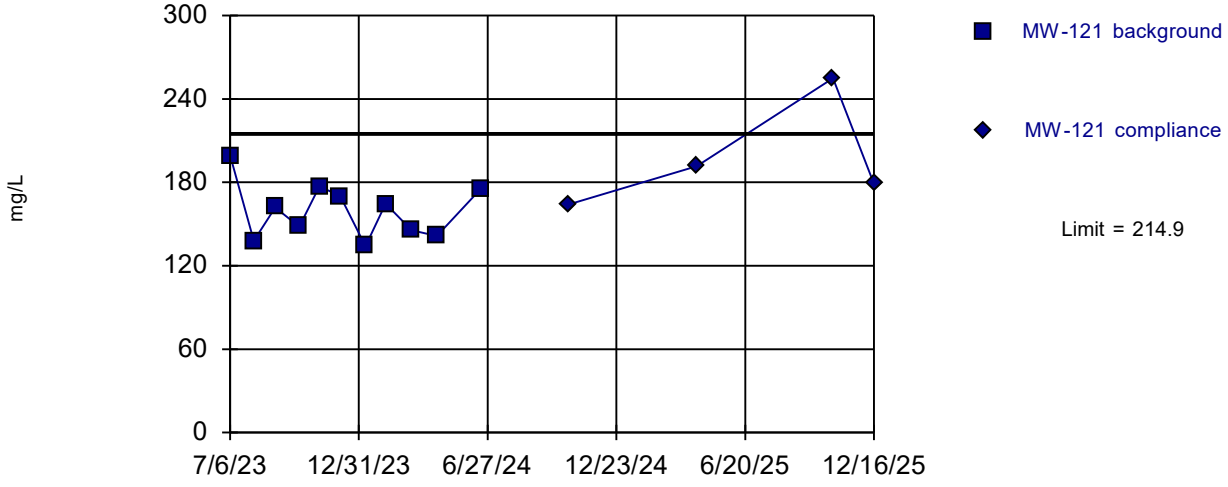
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.03a Software licensed to Olsson. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=159.6, Std. Dev.=20.17, n=11. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9432, critical = 0.792. Kappa = 2.74 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Dissolved Solids Analysis Run 12/31/2025 11:42 AM View: Prediction Limits

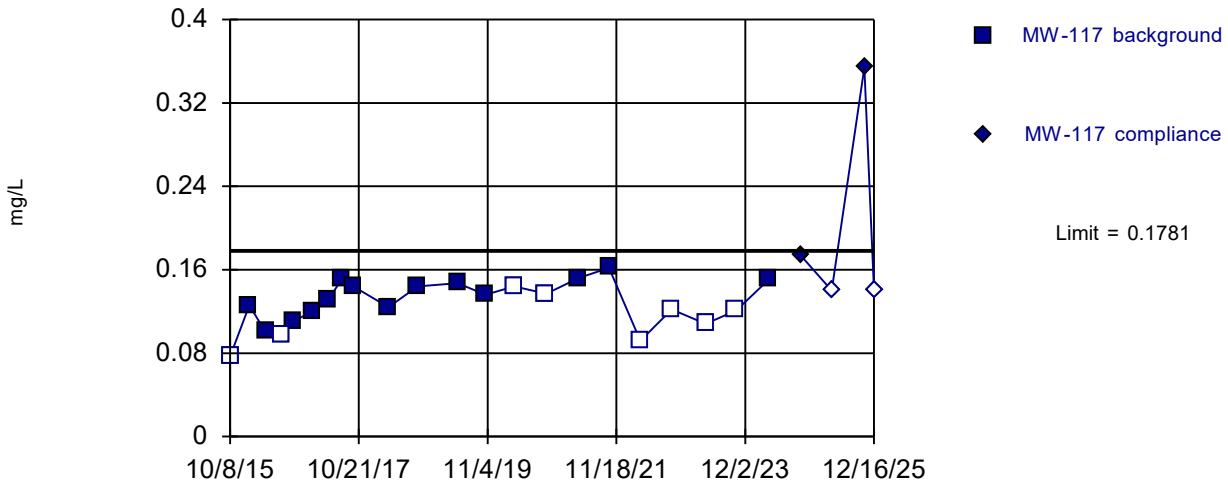
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.1271, Std. Dev.=0.02242, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9582, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Fluoride Analysis Run 12/31/2025 11:42 AM View: Prediction Limits

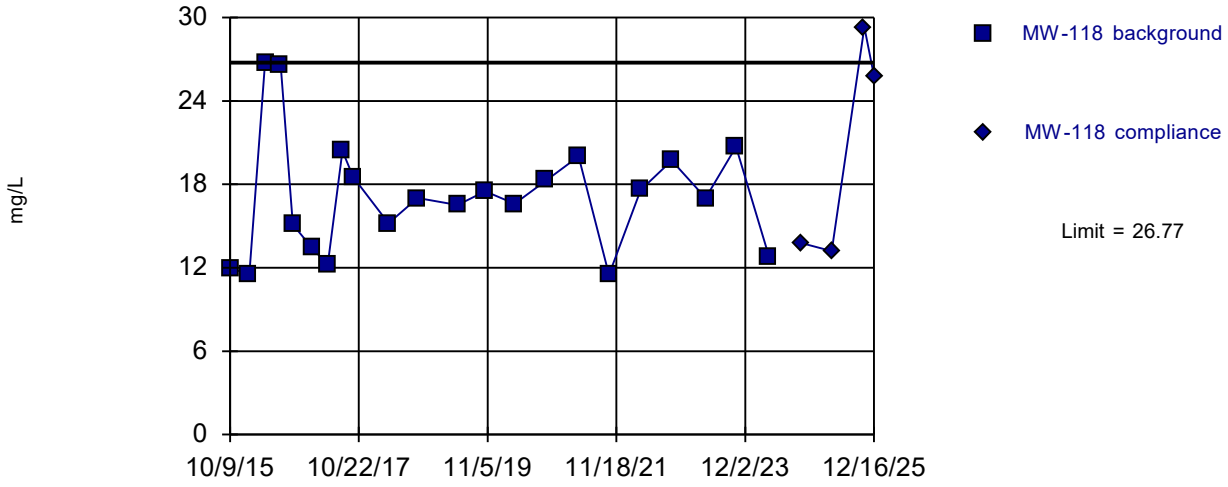
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database

Sanitas™ v.10.1.03a Software licensed to Olsson. UG

Within Limit

Prediction Limit

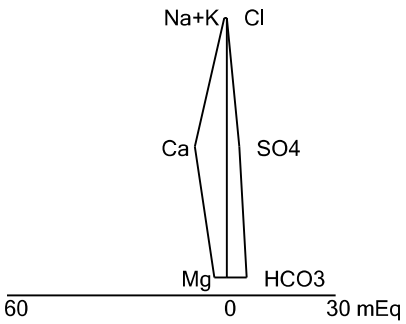
Intrawell Parametric



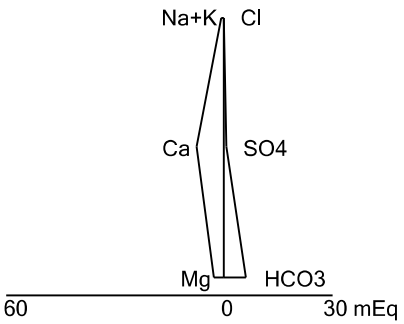
Background Data Summary: Mean=17.13, Std. Dev.=4.245, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9212, critical = 0.878. Kappa = 2.271 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 12/31/2025 11:42 AM View: Prediction Limits

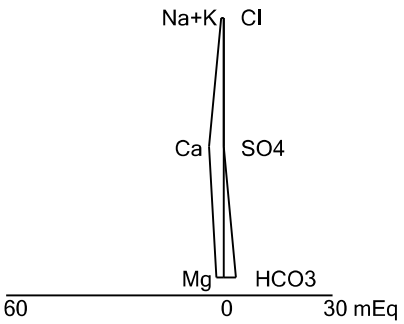
Plum Point Energy Station Data: PPES EPA CCR Rule Groundwater Database



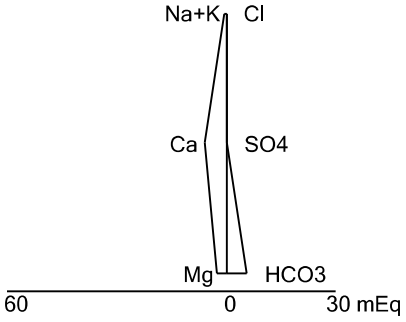
MW-102



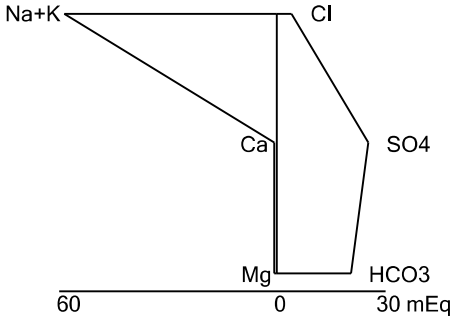
MW-108 (bg)
*background well



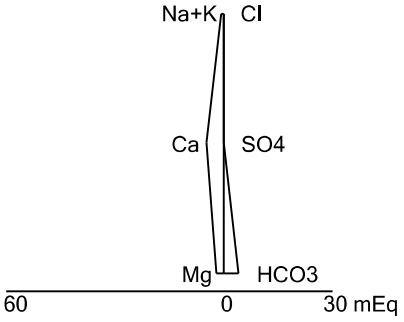
MW-113 (bg)
*background well



MW-115 (bg)
*background well



LEACHATE

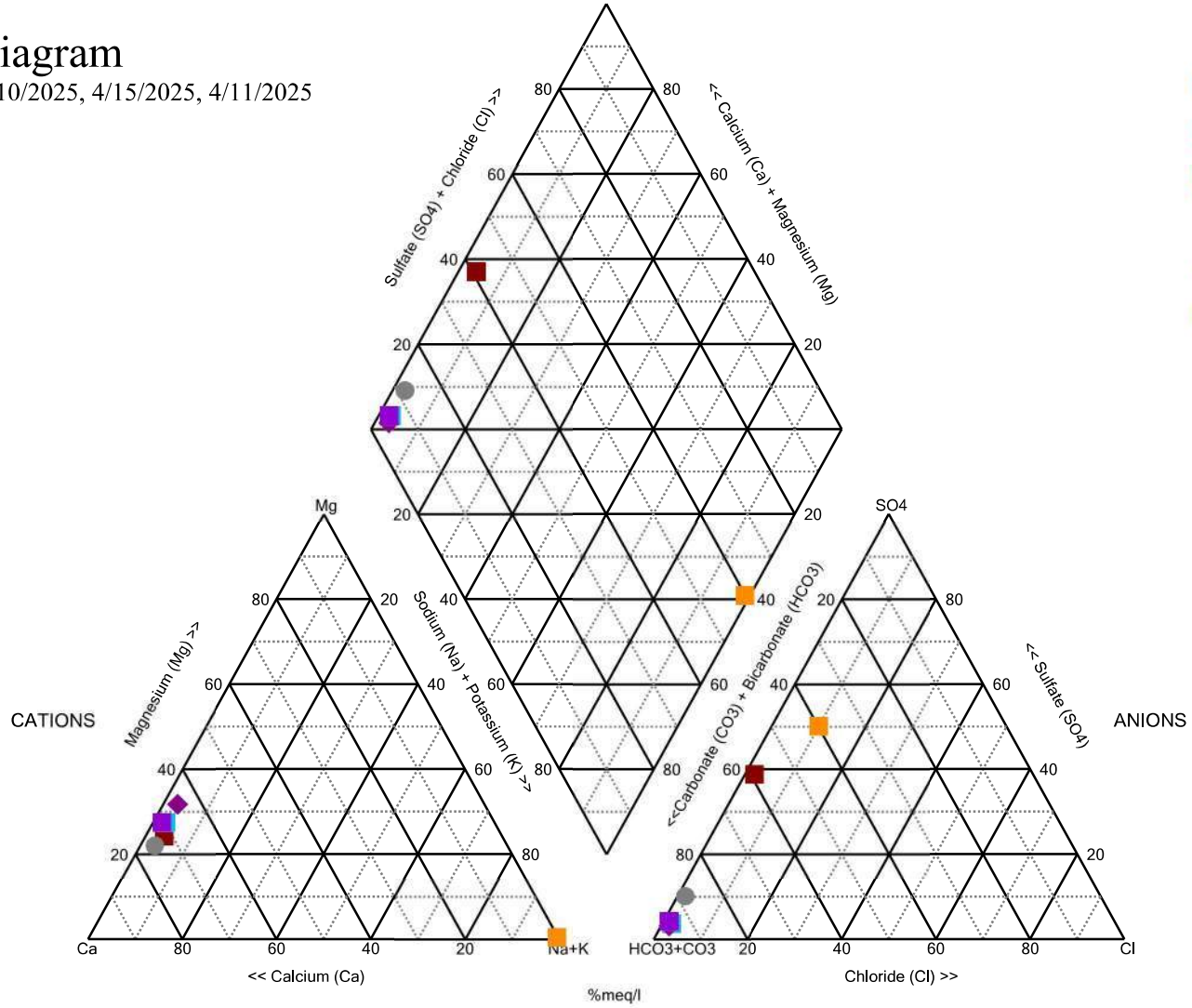


MW-104

Stiff Diagram - 4/14/2025, 4/10/2025, 4/15/2025, 4/11/2025 Analysis Run 1/8/2026 10:11 AM View: Stiff & Plum Point Energy Station Data: PPES EPA CCR Database (GWQ parameters)

Piper Diagram

4/14/2025, 4/10/2025, 4/15/2025, 4/11/2025



LEACHATE
MW-102
MW-104
MW-108* (bg)
MW-113* (bg)
MW-115* (bg)

*background well

Analysis Run 1/8/2026 10:12 AM View: Stiff & Piper Plots

Plum Point Energy Station Data: PPES EPA CCR Database (GWQ parameters)

ATTACHMENT 3
SUMMARY TABLE

Table 1. Summary of statistically significant results and maximum background and published levels.

Well ID	Parameter	Prediction Limit (mg/L)	October 2025 Result (mg/L)	December 2025 Verification Result (mg/L)	SSI Confirmed?	Maximum Background Level[a] (mg/L)	Maximum Published Level[b] (mg/L)
MW-102	Boron	0.159	0.254	Not Applicable[d]	Yes[d]	0.194 (J, MW-108, 4/2016)	Not available
MW-118	Calcium	97.72	104[c]	97.2[c]	No	183 (MW-108, 4/2018)	130
MW-121	Calcium	50.4	66.4	45.3	No		
MW-104	Chloride	1.463	1.85	Not Applicable[d]	Yes[d]	5.81 (MW-113, 1/2017) 5.34 (MW-108, 1/2016)	140
MW-117	Chloride	1.858	2.39	0.902 J	No		
MW-117	Fluoride	0.1781	0.354	0.141 J	No	0.275 (B, MW-115, 10/2024) 0.216 (MW-108, 4/2021)	0.36
MW-102	Sulfate	111.5	209	Not Applicable[d]	Yes[d]	71.4 (MW-108, 4/2024) 67.1 (MW-108, 6/2024)	120
MW-104	Sulfate	6.402	6.72[c]	Not Applicable[d]	Yes[d]		
MW-118	Sulfate	26.77	29.3[c]	25.8	No		
MW-102	TDS	502.8	677	Not Applicable[d]	Yes[d]	638 (B, MW-108, 4/2016) 582 (MW-108, 4/2018)	728
MW-117	TDS	319.2	333	318	No		
MW-118	TDS	381.9	406	336	No		
MW-121	TDS	213.2	272	196	No		

Notes: J – the reported value is an estimate.

a. Based on historical values at MW-108, MW-113, and MW-115.

b. From Gonthier 2003; value is for the Holocene subunit.

c. Value shown is the result of a laboratory re-run of the sample for verification purposes.

d. Previously confirmed SSI.

REFERENCES

Gonthier, G.J. 2003. *Quality of Groundwater in Pleistocene and Holocene Subunits of the Mississippi River Alluvial Aquifer, 1998* [Water-Resources Investigations Report 03-4202]. Jackson, MS: US Geological Survey, National Water-Quality Assessment Program.

ATTACHMENT 4
LABORATORY REPORTS

ANALYTICAL REPORT

October 24, 2025

Plum Point Services Co., LLC

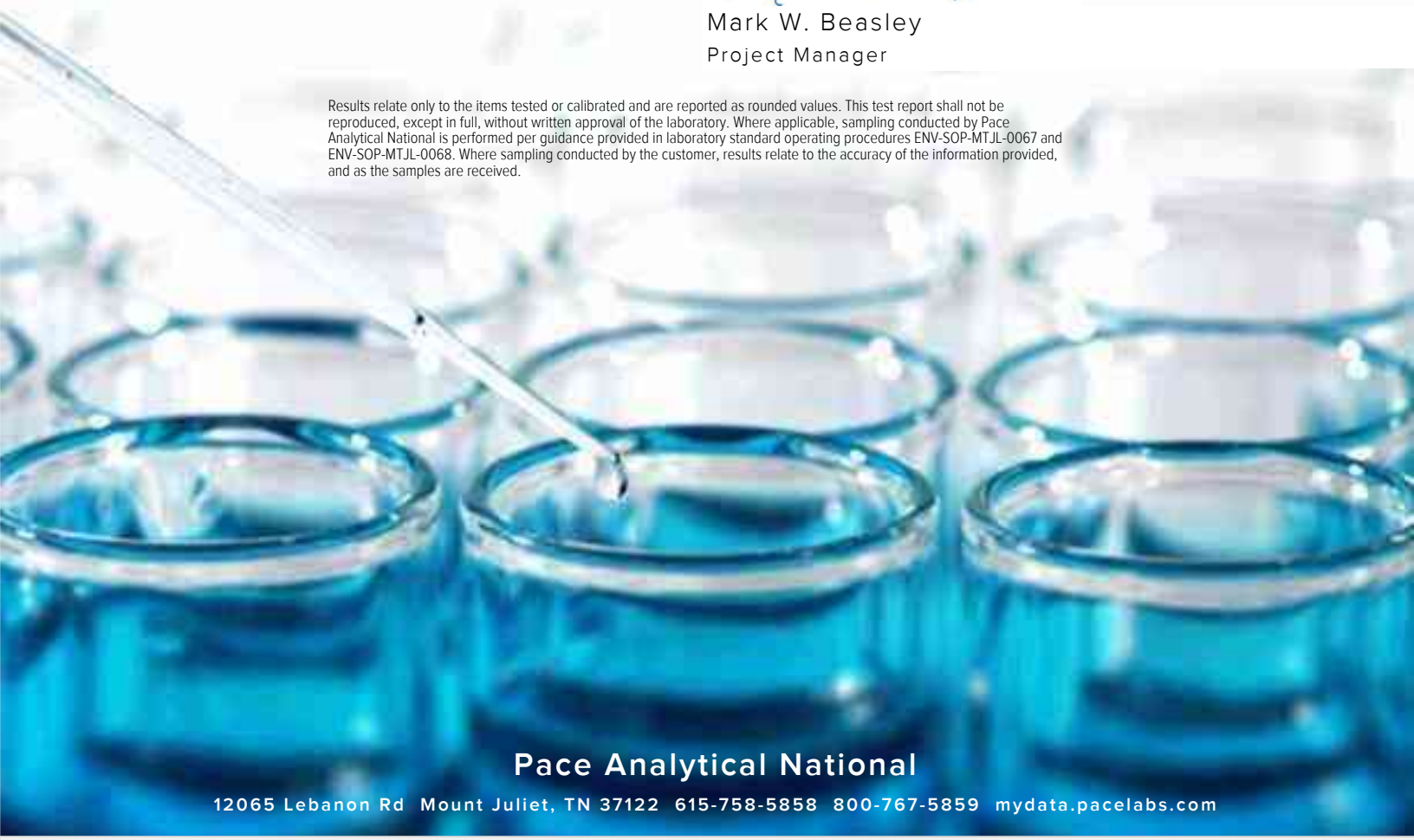
Sample Delivery Group:	L1909241
Samples Received:	10/17/2025
Project Number:	A24-01343
Description:	Plum Point Energy Station

Report To: Melissa Vaught
2739 SCR 623
Osceola, AR 72370

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

MW-110 L1909241-01

Collected by: Harris de Noble | Collected date/time: 10/15/25 14:40 | Received date/time: 10/17/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2623419	1	10/19/25 14:37	10/20/25 13:42	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2622921	1	10/21/25 05:59	10/21/25 05:59	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2623278	1	10/21/25 10:04	10/21/25 14:45	MAP	Mt. Juliet, TN

MW-113 L1909241-02

Collected by: Harris de Noble | Collected date/time: 10/15/25 11:40 | Received date/time: 10/17/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2623419	1	10/19/25 14:37	10/20/25 13:42	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2623025	1	10/22/25 02:32	10/22/25 02:32	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2623278	1	10/21/25 10:04	10/21/25 14:46	MAP	Mt. Juliet, TN

MW-108 L1909241-03

Collected by: Harris de Noble | Collected date/time: 10/15/25 12:40 | Received date/time: 10/17/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2623419	1	10/19/25 14:37	10/20/25 13:42	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2623025	1	10/22/25 03:05	10/22/25 03:05	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2623278	1	10/21/25 10:04	10/21/25 14:48	MAP	Mt. Juliet, TN

MW-115 L1909241-04

Collected by: Harris de Noble | Collected date/time: 10/15/25 10:50 | Received date/time: 10/17/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2623419	1	10/19/25 14:37	10/20/25 13:42	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2623025	1	10/22/25 03:16	10/22/25 03:16	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2623278	1	10/21/25 10:04	10/21/25 14:50	MAP	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	342000		10000	1	10/20/2025 13:42	WG2623419

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	1140		547	1000	1	10/21/2025 05:59	WG2622921
Fluoride	193		76.1	150	1	10/21/2025 05:59	WG2622921
Sulfate	6260		637	5000	1	10/21/2025 05:59	WG2622921

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	56.7	J	23.2	200	1	10/21/2025 14:45	WG2623278
Calcium	87200		153	1000	1	10/21/2025 14:45	WG2623278

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	236000		10000	1	10/20/2025 13:42	WG2623419

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	565	J	547	1000	1	10/22/2025 02:32	WG2623025
Fluoride	87.5	J P1	76.1	150	1	10/22/2025 02:32	WG2623025
Sulfate	1800	J	637	5000	1	10/22/2025 02:32	WG2623025

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	75.8	J	23.2	200	1	10/21/2025 14:46	WG2623278
Calcium	53400		153	1000	1	10/21/2025 14:46	WG2623278

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	426000		10000	1	10/20/2025 13:42	WG2623419

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	1180		547	1000	1	10/22/2025 03:05	WG2623025
Fluoride	132	J	76.1	150	1	10/22/2025 03:05	WG2623025
Sulfate	15200		637	5000	1	10/22/2025 03:05	WG2623025

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	74.6	J	23.2	200	1	10/21/2025 14:48	WG2623278
Calcium	123000		153	1000	1	10/21/2025 14:48	WG2623278

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	391000		10000	1	10/20/2025 13:42	WG2623419

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	859	J	547	1000	1	10/22/2025 03:16	WG2623025
Fluoride	187		76.1	150	1	10/22/2025 03:16	WG2623025
Sulfate	2210	J	637	5000	1	10/22/2025 03:16	WG2623025

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	57.0	J	23.2	200	1	10/21/2025 14:50	WG2623278
Calcium	108000		153	1000	1	10/21/2025 14:50	WG2623278

Method Blank (MB)

(MB) R4289896-1 10/20/25 13:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Dissolved Solids	U		10000	10000

L1909235-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1909235-01 10/20/25 13:42 • (DUP) R4289896-3 10/20/25 13:42

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2380000	2380000	1	0.336		10

L1909330-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1909330-01 10/20/25 13:42 • (DUP) R4289896-4 10/20/25 13:42

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	269000	264000	1	1.88		10

Laboratory Control Sample (LCS)

(LCS) R4289896-2 10/20/25 13:42

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800000	8560000	97.3	90.0-110	

Method Blank (MB)

(MB) R4289743-1 10/20/25 23:18

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		547	1000
Fluoride	U		76.1	150
Sulfate	U		637	5000

L1909101-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1909101-08 10/21/25 00:21 • (DUP) R4289743-3 10/21/25 00:34

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	16000	15600	1	2.70		15
Fluoride	U	U	1	0.000		15
Sulfate	28800	28300	1	1.61		15

L1909101-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1909101-09 10/21/25 01:12 • (DUP) R4289743-6 10/21/25 01:25

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	74500	75200	1	0.899		15
Fluoride	174	175	1	0.687		15
Sulfate	U	U	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R4289743-2 10/20/25 23:31

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	36700	91.8	80.0-120	
Fluoride	8000	7500	93.7	80.0-120	
Sulfate	40000	40100	100	80.0-120	

L1909101-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1909101-08 10/21/25 00:21 • (MS) R4289743-4 10/21/25 00:47 • (MSD) R4289743-5 10/21/25 00:59

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	16000	54200	51600	95.4	88.8	1	80.0-120			4.95	15
Fluoride	8000	U	8210	7830	103	97.9	1	80.0-120			4.65	15
Sulfate	40000	28800	64100	62700	88.3	84.7	1	80.0-120			2.23	15

L1909101-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L1909101-09 10/21/25 01:12 • (MS) R4289743-7 10/21/25 01:37

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	74500	99500	62.5	1	80.0-120	J6
Fluoride	8000	174	8250	101	1	80.0-120	
Sulfate	40000	U	40000	100	1	80.0-120	

Method Blank (MB)

(MB) R4291527-1 10/21/25 23:07

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		547	1000
Fluoride	U		76.1	150
Sulfate	U		637	5000

L1908963-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1908963-01 10/22/25 00:38 • (DUP) R4291527-3 10/22/25 00:49

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	41100	41200	1	0.132		15
Fluoride	627	618	1	1.48		15
Sulfate	39900	40500	1	1.58		15

L1909241-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1909241-02 10/22/25 02:32 • (DUP) R4291527-6 10/22/25 02:43

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	565	559	1	1.05	J	15
Fluoride	87.5	105	1	18.1	J P1	15
Sulfate	1800	1840	1	2.12	J	15

Laboratory Control Sample (LCS)

(LCS) R4291527-2 10/21/25 23:19

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	38900	97.3	80.0-120	
Fluoride	8000	8250	103	80.0-120	
Sulfate	40000	39500	98.9	80.0-120	

L1908963-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1908963-01 10/22/25 00:38 • (MS) R4291527-4 10/22/25 01:01 • (MSD) R4291527-5 10/22/25 01:12

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	41100	72800	73000	79.3	79.7	1	80.0-120	J6	J6	0.203	15
Fluoride	8000	627	8880	8720	103	101	1	80.0-120			1.84	15
Sulfate	40000	39900	72800	73200	82.3	83.1	1	80.0-120			0.428	15

L1909241-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1909241-02 10/22/25 02:32 • (MS) R4291527-7 10/22/25 02:54

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	565	39800	98.0	1	80.0-120	
Fluoride	8000	87.5	8130	101	1	80.0-120	
Sulfate	40000	1800	41300	98.8	1	80.0-120	

Method Blank (MB)

(MB) R4290252-6 10/21/25 16:48

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Boron	U		23.3	200
Calcium	U		153	1000

Laboratory Control Sample (LCS)

(LCS) R4290252-2 10/21/25 14:22

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Boron	1000	990	99.0	80.0-120	
Calcium	10000	10100	101	80.0-120	

L1909428-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1909428-01 10/21/25 14:24 • (MS) R4290252-4 10/21/25 14:27 • (MSD) R4290252-5 10/21/25 14:29

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Boron	1000	159	1150	1130	99.1	96.9	1	75.0-125			1.99	20
Calcium	10000	48600	60600	59900	120	113	1	75.0-125			1.12	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

EPA

Company Name/Address:
Plum Point Services Co., LLC
2739 SCR 623
Osceola, AR 72370

Billing Information:
Accounts Payable
P.O. Box 567
Osceola, AR 72370

Pres Chk

Report to: **Melissa Vaught 501-920-9642**

Email To: **mvaught@olsson.com;mclayton@olsson.com;a**

Project Description: **Plum Point Energy Station**

City/State Collected: Osceola, AR

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project # **A24-01343**

Lab Project # **NAESOAR-PLUMPOINT**

Collected by (print): Harris de Nobile

Site/Facility ID #

P.O. # **2025-00048**

Collected by (signature):

Immediately Packed on Ice N ___ Y V

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 190924

1237

Acctnum: **NAESOAR**
Template: **T175308**
Prelogin: **P1181280**
PM: **134 - Mark W. Beasley**
PB:
Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cl, F, SO4 125mlHDPE-NoPres	TDS 250mlHDPE-NoPres	Total B, Ca 250mlHDPE-HNO3	Remarks	Sample # (lab only)
~~MW-101~~ MW-110	grab	GW		10/15/2025	1440	3	X	X	X		-01
~~MW-102~~ MW-113		GW		10/15/2025	1140	3	X	X	X		-02
~~MW-103~~ MW-108		GW		10/15/2025	~~1240~~ 1240	3	X	X	X		-03
~~MW-104~~ MW-115		GW		10/15/2025	1050	3	X	X	X		-04
~~MW-108~~		GW				3	X	X	X		
~~MW-110~~		GW				3	X	X	X		
~~MW-113~~		GW				3	X	X	X		
~~MW-115~~		GW				3	X	X	X		
~~MW-116~~		GW				3	X	X	X		
~~MW-117~~		GW				3	X	X	X		

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 7919 4008 4428

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y __N
COC Signed/Accurate: Y __N
Bottles arrive intact: Y __N
Correct bottles used: Y __N
Sufficient volume sent: Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	10/16/25	1600	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Ann Woods

Trip Blank Received: Yes (No) HCL / MeoH TBR

Temp: °C Bottles Received: 12

TLA 1.5+0+1.5

if preservation required by Login: Date/Time

Date: 10/17/25 Time: 900

Hold:

Condition: NCF / (OK)

ANALYTICAL REPORT

October 30, 2025

Plum Point Services Co., LLC

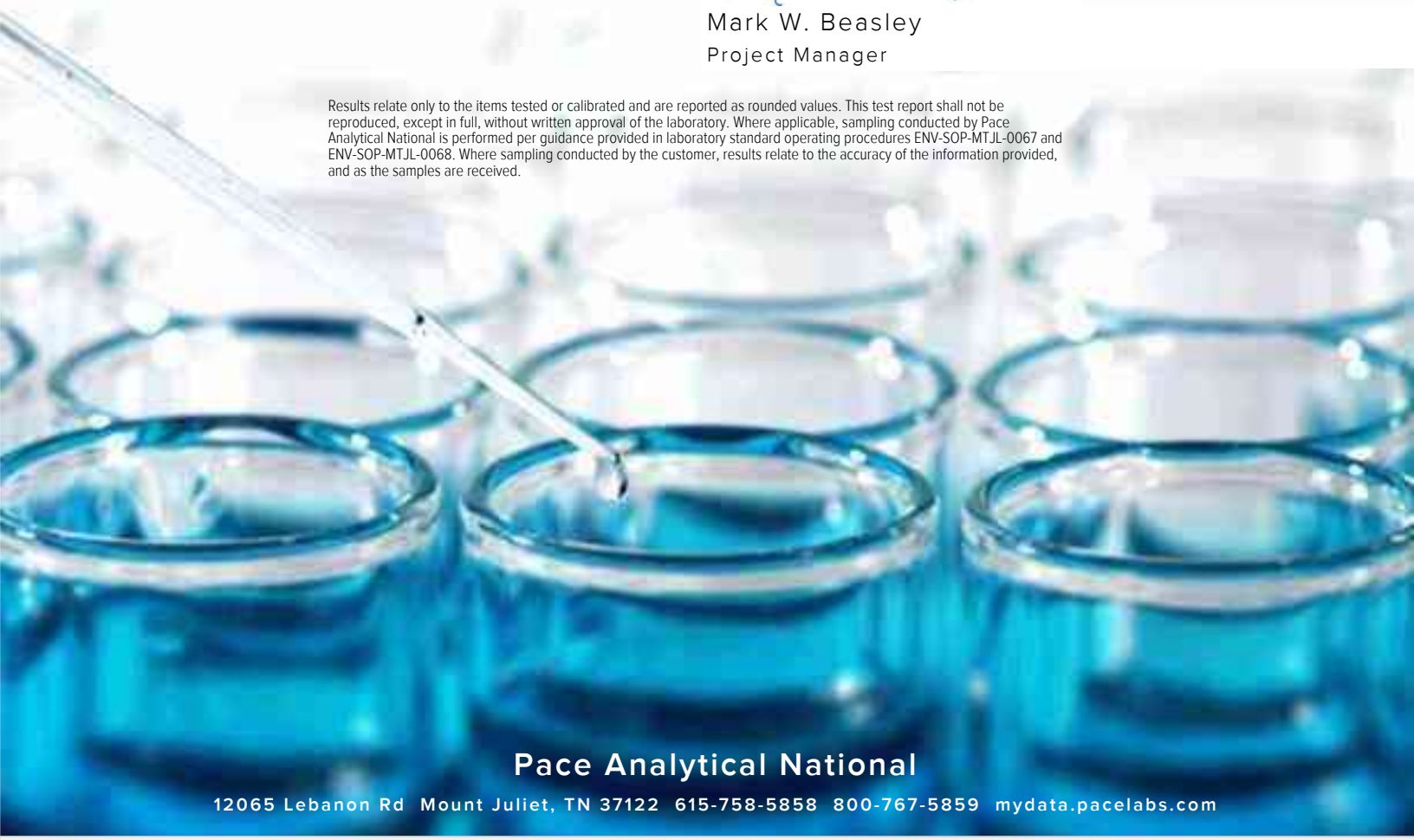
Sample Delivery Group:	L1910715
Samples Received:	10/23/2025
Project Number:	A24-01343
Description:	Plum Point Energy Station

Report To: Melissa Vaught
2739 SCR 623
Osceola, AR 72370

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MW-101 L1910715-01

Collected by: Michael Clayton | Collected date/time: 10/21/25 10:15 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627333	1	10/24/25 23:27	10/26/25 15:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626439	1	10/27/25 20:07	10/27/25 20:07	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2627078	1	10/28/25 09:06	10/28/25 20:05	NMM	Mt. Juliet, TN

MW-102 L1910715-02

Collected by: Michael Clayton | Collected date/time: 10/21/25 12:20 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627333	1	10/24/25 23:27	10/26/25 15:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626439	1	10/27/25 20:18	10/27/25 20:18	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626439	10	10/27/25 20:28	10/27/25 20:28	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2627078	1	10/28/25 09:06	10/28/25 20:08	NMM	Mt. Juliet, TN

MW-103 L1910715-03

Collected by: Michael Clayton | Collected date/time: 10/20/25 15:10 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627333	1	10/24/25 23:27	10/26/25 15:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626439	1	10/27/25 21:00	10/27/25 21:00	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2627078	1	10/28/25 09:06	10/28/25 20:10	NMM	Mt. Juliet, TN

MW-104 L1910715-04

Collected by: Michael Clayton | Collected date/time: 10/20/25 11:10 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627333	1	10/24/25 23:27	10/26/25 15:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626439	1	10/27/25 21:11	10/27/25 21:11	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2627078	1	10/28/25 09:06	10/28/25 20:17	NMM	Mt. Juliet, TN

MW-116 L1910715-05

Collected by: Michael Clayton | Collected date/time: 10/21/25 11:15 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627333	1	10/24/25 23:27	10/26/25 15:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626884	1	10/27/25 18:50	10/27/25 18:50	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2627078	1	10/28/25 09:06	10/28/25 20:19	NMM	Mt. Juliet, TN

MW-117 L1910715-06

Collected by: Michael Clayton | Collected date/time: 10/21/25 13:55 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627333	1	10/24/25 23:27	10/26/25 15:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626884	1	10/27/25 19:36	10/27/25 19:36	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2627078	1	10/28/25 09:06	10/28/25 20:22	NMM	Mt. Juliet, TN

MW-118 L1910715-07

Collected by: Michael Clayton | Collected date/time: 10/20/25 14:10 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627333	1	10/24/25 23:27	10/26/25 15:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626884	1	10/27/25 20:15	10/27/25 20:15	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2627078	1	10/28/25 09:06	10/28/25 20:24	NMM	Mt. Juliet, TN

MW-119 L1910715-08

Collected by: Michael Clayton | Collected date/time: 10/20/25 16:10 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627333	1	10/24/25 23:27	10/26/25 15:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626884	1	10/27/25 20:28	10/27/25 20:28	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2627078	1	10/28/25 09:06	10/28/25 20:27	NMM	Mt. Juliet, TN

MW-120 L1910715-09

Collected by: Michael Clayton | Collected date/time: 10/20/25 12:05 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627333	1	10/24/25 23:27	10/26/25 15:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626884	1	10/27/25 20:40	10/27/25 20:40	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2627078	1	10/28/25 09:06	10/28/25 20:29	NMM	Mt. Juliet, TN

MW-121 L1910715-10

Collected by: Michael Clayton | Collected date/time: 10/20/25 13:05 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627333	1	10/24/25 23:27	10/26/25 15:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626884	1	10/27/25 20:51	10/27/25 20:51	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2627078	1	10/28/25 09:06	10/28/25 20:31	NMM	Mt. Juliet, TN

MW-102 DUP L1910715-11

Collected by: Michael Clayton | Collected date/time: 10/21/25 12:25 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627295	1	10/25/25 00:00	10/27/25 16:13	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626884	1	10/27/25 21:02	10/27/25 21:02	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626884	5	10/30/25 06:00	10/30/25 06:00	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2627078	1	10/28/25 09:06	10/28/25 20:34	NMM	Mt. Juliet, TN

EPA EB-1 L1910715-12

Collected by: Michael Clayton | Collected date/time: 10/21/25 14:45 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627295	1	10/25/25 00:00	10/27/25 16:13	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626884	1	10/27/25 21:14	10/27/25 21:14	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2627078	1	10/28/25 09:06	10/28/25 20:36	NMM	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	348000		10000	1	10/26/2025 15:59	WG2627333

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	2150		547	1000	1	10/27/2025 20:07	WG2626439
Fluoride	302		76.1	150	1	10/27/2025 20:07	WG2626439
Sulfate	5330		637	5000	1	10/27/2025 20:07	WG2626439

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	46.6	J	23.2	200	1	10/28/2025 20:05	WG2627078
Calcium	92400		153	1000	1	10/28/2025 20:05	WG2627078

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	677000		13300	1	10/26/2025 15:59	WG2627333

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	5410		547	1000	1	10/27/2025 20:18	WG2626439
Fluoride	176		76.1	150	1	10/27/2025 20:18	WG2626439
Sulfate	209000		6370	50000	10	10/27/2025 20:28	WG2626439

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	254		23.2	200	1	10/28/2025 20:08	WG2627078
Calcium	167000		153	1000	1	10/28/2025 20:08	WG2627078

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	361000		10000	1	10/26/2025 15:59	WG2627333

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	1560		547	1000	1	10/27/2025 21:00	WG2626439
Fluoride	229		76.1	150	1	10/27/2025 21:00	WG2626439
Sulfate	20700		637	5000	1	10/27/2025 21:00	WG2626439

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	69.3	J	23.2	200	1	10/28/2025 20:10	WG2627078
Calcium	97700		153	1000	1	10/28/2025 20:10	WG2627078

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	333000		10000	1	10/26/2025 15:59	WG2627333

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	1850		547	1000	1	10/27/2025 21:11	WG2626439
Fluoride	286		76.1	150	1	10/27/2025 21:11	WG2626439
Sulfate	7120		637	5000	1	10/27/2025 21:11	WG2626439

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	54.2	J	23.2	200	1	10/28/2025 20:17	WG2627078
Calcium	88600		153	1000	1	10/28/2025 20:17	WG2627078

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	521000		10000	1	10/26/2025 15:59	WG2627333

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	3060		547	1000	1	10/27/2025 18:50	WG2626884
Fluoride	174		76.1	150	1	10/27/2025 18:50	WG2626884
Sulfate	55600	J6	637	5000	1	10/27/2025 18:50	WG2626884

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	102	J	23.2	200	1	10/28/2025 20:19	WG2627078
Calcium	142000		153	1000	1	10/28/2025 20:19	WG2627078

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	333000		10000	1	10/26/2025 15:59	WG2627333

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	2390	P1	547	1000	1	10/27/2025 19:36	WG2626884
Fluoride	354	P1	76.1	150	1	10/27/2025 19:36	WG2626884
Sulfate	9010	P1	637	5000	1	10/27/2025 19:36	WG2626884

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Boron	72.6	J	23.2	200	1	10/28/2025 20:22	WG2627078
Calcium	92400		153	1000	1	10/28/2025 20:22	WG2627078

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	406000		10000	1	10/26/2025 15:59	WG2627333

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	1590		547	1000	1	10/27/2025 20:15	WG2626884
Fluoride	149	J	76.1	150	1	10/27/2025 20:15	WG2626884
Sulfate	29400		637	5000	1	10/27/2025 20:15	WG2626884

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	87.9	J	23.2	200	1	10/28/2025 20:24	WG2627078
Calcium	109000		153	1000	1	10/28/2025 20:24	WG2627078

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	360000		10000	1	10/26/2025 15:59	WG2627333

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	1320		547	1000	1	10/27/2025 20:28	WG2626884
Fluoride	193		76.1	150	1	10/27/2025 20:28	WG2626884
Sulfate	37700		637	5000	1	10/27/2025 20:28	WG2626884

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	53.4	J	23.2	200	1	10/28/2025 20:27	WG2627078
Calcium	91500		153	1000	1	10/28/2025 20:27	WG2627078

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	244000		10000	1	10/26/2025 15:59	WG2627333

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	1320		547	1000	1	10/27/2025 20:40	WG2626884
Fluoride	155		76.1	150	1	10/27/2025 20:40	WG2626884
Sulfate	19300		637	5000	1	10/27/2025 20:40	WG2626884

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	43.0	J	23.2	200	1	10/28/2025 20:29	WG2627078
Calcium	60100		153	1000	1	10/28/2025 20:29	WG2627078

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	272000		10000	1	10/26/2025 15:59	WG2627333

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	2170		547	1000	1	10/27/2025 20:51	WG2626884
Fluoride	117	J	76.1	150	1	10/27/2025 20:51	WG2626884
Sulfate	16500		637	5000	1	10/27/2025 20:51	WG2626884

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	58.0	J	23.2	200	1	10/28/2025 20:31	WG2627078
Calcium	66400		153	1000	1	10/28/2025 20:31	WG2627078

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	673000		13300	1	10/27/2025 16:13	WG2627295

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	4890		547	1000	1	10/27/2025 21:02	WG2626884
Fluoride	159		76.1	150	1	10/27/2025 21:02	WG2626884
Sulfate	197000		3180	25000	5	10/30/2025 06:00	WG2626884

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	250		23.2	200	1	10/28/2025 20:34	WG2627078
Calcium	163000		153	1000	1	10/28/2025 20:34	WG2627078

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	12000		10000	1	10/27/2025 16:13	WG2627295

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	U		547	1000	1	10/27/2025 21:14	WG2626884
Fluoride	U		76.1	150	1	10/27/2025 21:14	WG2626884
Sulfate	U		637	5000	1	10/27/2025 21:14	WG2626884

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Boron	U		23.2	200	1	10/28/2025 20:36	WG2627078
Calcium	U		153	1000	1	10/28/2025 20:36	WG2627078

Method Blank (MB)

(MB) R4293553-1 10/27/25 16:13

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Dissolved Solids	U		10000	10000

L1910678-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1910678-20 10/27/25 16:13 • (DUP) R4293553-3 10/27/25 16:13

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	3840000	3520000	1	8.70		10

L1910715-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1910715-12 10/27/25 16:13 • (DUP) R4293553-4 10/27/25 16:13

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	12000	12000	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R4293553-2 10/27/25 16:13

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800000	8250000	93.8	90.0-110	

Method Blank (MB)

(MB) R4292843-1 10/26/25 15:59

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Dissolved Solids	U		10000	10000

L1910710-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1910710-01 10/26/25 15:59 • (DUP) R4292843-3 10/26/25 15:59

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Dissolved Solids	581000	577000	1	0.690		10

L1910715-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1910715-10 10/26/25 15:59 • (DUP) R4292843-4 10/26/25 15:59

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Dissolved Solids	272000	276000	1	1.46		10

Laboratory Control Sample (LCS)

(LCS) R4292843-2 10/26/25 15:59

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Dissolved Solids	8800000	8790000	99.9	90.0-110	

Method Blank (MB)

(MB) R4292824-1 10/27/25 13:04

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		547	1000
Fluoride	U		76.1	150
Sulfate	U		637	5000

L1910616-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1910616-07 10/27/25 13:25 • (DUP) R4292824-3 10/27/25 13:35

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	10200	10100	1	1.17		15
Fluoride		U	1	0.000		15

L1910616-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1910616-07 10/27/25 14:07 • (DUP) R4292824-6 10/27/25 14:18

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	424000	425000	10	0.149		15

L1910616-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1910616-08 10/27/25 14:28 • (DUP) R4292824-7 10/27/25 14:39

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	25000	24800	1	0.555		15
Fluoride		436	1	1.21		15

L1910616-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1910616-08 10/27/25 15:00 • (DUP) R4292824-9 10/27/25 15:11

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	146000	148000	5	0.839		15

Laboratory Control Sample (LCS)

(LCS) R4292824-2 10/27/25 13:14

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	39200	98.0	80.0-120	
Fluoride	8000	8060	101	80.0-120	
Sulfate	40000	40800	102	80.0-120	

L1910616-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910616-07 10/27/25 13:25 • (MS) R4292824-4 10/27/25 13:46 • (MSD) R4292824-5 10/27/25 13:57

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	10200	46300	46300	90.1	90.1	1	80.0-120			0.00713	15
Fluoride	8000		7700	7720	96.2	96.5	1	80.0-120			0.263	15
Sulfate	40000	416000	353000	353000	0.000	0.000	1	80.0-120	E V	E V	0.0860	15

L1910616-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1910616-08 10/27/25 14:28 • (MS) R4292824-8 10/27/25 14:50

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	25000	58100	82.9	1	80.0-120	
Fluoride	8000		8150	96.4	1	80.0-120	
Sulfate	40000	145000	154000	21.5	1	80.0-120	E J6

Method Blank (MB)

(MB) R4292859-1 10/27/25 18:27

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		547	1000
Fluoride	U		76.1	150
Sulfate	U		637	5000

L1910715-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1910715-05 10/27/25 18:50 • (DUP) R4292859-3 10/27/25 19:02

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	3060	3070	1	0.404		15
Fluoride	174	167	1	4.34		15
Sulfate	55600	56800	1	2.11		15

L1910715-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1910715-06 10/27/25 19:36 • (DUP) R4292859-6 10/27/25 19:47

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	2390	1030	1	79.6	P1	15
Fluoride	354	128	1	93.7	J P1	15
Sulfate	9010	6430	1	33.4	P1	15

Laboratory Control Sample (LCS)

(LCS) R4292859-2 10/27/25 18:39

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	36100	90.3	80.0-120	
Fluoride	8000	7490	93.7	80.0-120	
Sulfate	40000	37300	93.3	80.0-120	

L1910715-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910715-05 10/27/25 18:50 • (MS) R4292859-4 10/27/25 19:13 • (MSD) R4292859-5 10/27/25 19:25

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	3060	42200	44300	97.8	103	1	80.0-120			4.85	15
Fluoride	8000	174	8130	8730	99.4	107	1	80.0-120			7.11	15
Sulfate	40000	55600	84400	89800	72.0	85.5	1	80.0-120	J6		6.19	15

L1910715-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1910715-06 10/27/25 19:36 • (MS) R4292859-7 10/27/25 19:59

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	2390	40500	95.2	1	80.0-120	
Fluoride	8000	354	8170	97.7	1	80.0-120	
Sulfate	40000	9010	45800	92.1	1	80.0-120	

Method Blank (MB)

(MB) R4293175-1 10/28/25 19:49

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Boron	U		23.3	200
Calcium	U		153	1000

Laboratory Control Sample (LCS)

(LCS) R4293175-2 10/28/25 19:51

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1000	1010	101	80.0-120	
Calcium	10000	10200	102	80.0-120	

L1910698-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910698-01 10/28/25 19:54 • (MS) R4293175-4 10/28/25 19:58 • (MSD) R4293175-5 10/28/25 20:01

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1000	U	988	998	98.8	99.8	1	75.0-125			1.05	20
Calcium	10000	U	10100	10100	101	101	1	75.0-125			0.00395	20

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Plum Point Services Co., LLC

2739 SCR 623
Osceola, AR 72370

Billing Information:
Accounts Payable
P.O. Box 567
Osceola, AR 72370

Report to:
Melissa Vaught 501-920-9642

Email To:
mvaught@olsson.com;mclayton@olsson.com;a

Project Description:
Plum Point Energy Station

City/State Collected: OSCEOLA AR

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
A24-01343

Lab Project #
NAESOAR-PLUMPOINT

Collected by (print):
Michael Clayton

Site/Facility ID #

P.O. #
2025-00048

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Pres Chk

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cl, F, SO4 125mlHDPE-NoPres	TDS 250mlHDPE-NoPres	Total B, Ca 250mlHDPE-HNO3							Remarks	Sample # (lab only)
MW-101	Grab	GW		10/21/25	1015	3	X	X	X								01
MW-102		GW		10/21/25	1220	3	X	X	X								02
MW-103		GW		10/20/25	1510	3	X	X	X								03
MW-104		GW		10/20/25	1110	3	X	X	X								04
~~MW-108~~		~~GW~~				~~3~~	~~X~~	~~X~~	~~X~~								
~~MW-110~~		~~GW~~				~~3~~	~~X~~	~~X~~	~~X~~								
~~MW-113~~		~~GW~~				~~3~~	~~X~~	~~X~~	~~X~~								
~~MW-115~~		~~GW~~				~~3~~	~~X~~	~~X~~	~~X~~								
MW-116		GW		10/21/25	1115	3	X	X	X								05
MW-117		GW		10/21/25	1355	3	X	X	X								06

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Michael Clayton	10/22/25	1400		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: Multi 36
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-23-25 Time: 0900

If ___ ate/Time

PH – 10BDH5121
TRC – 3223A228

Hold: Condition: NCF / OK

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1911075

T **F075**

Acctnum: **NAESOAR**
Template:**T175308**
Prelogin: **P1181281**
PM: **134 - Mark W. Beasley**
PB: 10/01/25CG
Shipped Via: **FedEX Ground**

Company Name/Address:
Plum Point Services Co., LLC

2739 SCR 623
Osceola, AR 72370

Billing Information:
Accounts Payable
P.O. Box 567
Osceola, AR 72370

Report to:
Melissa Vaught 501-920-9642

Email To:
mvaught@olsson.com;mclayton@olsson.com;a

Project Description:
Plum Point Energy Station

City/State Collected: Osceola, AR

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
A24-01343

Lab Project #
NAESOAR-PLUMPOINT

Collected by (print):
Michael Clayton

Site/Facility ID #

P.O. #
2025-00048

Collected by (signature):

Immediately Packed on Ice N ___ Y V

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cl, F, SO4 125mlHDPE-NoPres	TDS 250mlHDPE-NoPres	Total B, Ca 250mlHDPE-HNO3							Remarks	Sample # (lab only)
MW-118	GRAB	GW		10/20/25	1410	3	X	X	X								07
MW-119		GW		10/20/25	1610	3	X	X	X								08
MW-120		GW		10/20/25	1205	3	X	X	X								09
MW-121		GW		10/20/25	1305	3	X	X	X								10
MW-102 DUP		GW		10/21/25	1225	3	X	X	X								11
EPA EB-1		GW		10/21/25	1445	3	X	X	X								12
		GW				3	X	X	X								
		GW				3	X	X	X								
		GW				3	X	X	X								

Chain of Custody Page 2 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # U011075

Table #

Acctnum: **NAESOAR**
Template: **T175308**
Prelogin: **P1181281**
PM: **134 - Mark W. Beasley**
PB: 10/01/25CG
Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: X NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: X Y __N
RAD Screen <0.5 mR/hr: X Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Michael Clayton	10/22/25	1400	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / (No)
HCL / MeoH
TBR

Temp: multi °C Bottles Received: 36

Date: 10-23-25 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

L#U910715

Multiple Parcel Form

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
8836 9123 8568	TLA9	0.2	±0	0.2	Yes / No / Not Present
8836 9123 8557	TLA9	1.3	±0	1.3	Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

Name

Date

ANALYTICAL REPORT

November 10, 2025

Revised Report

Plum Point Services Co., LLC

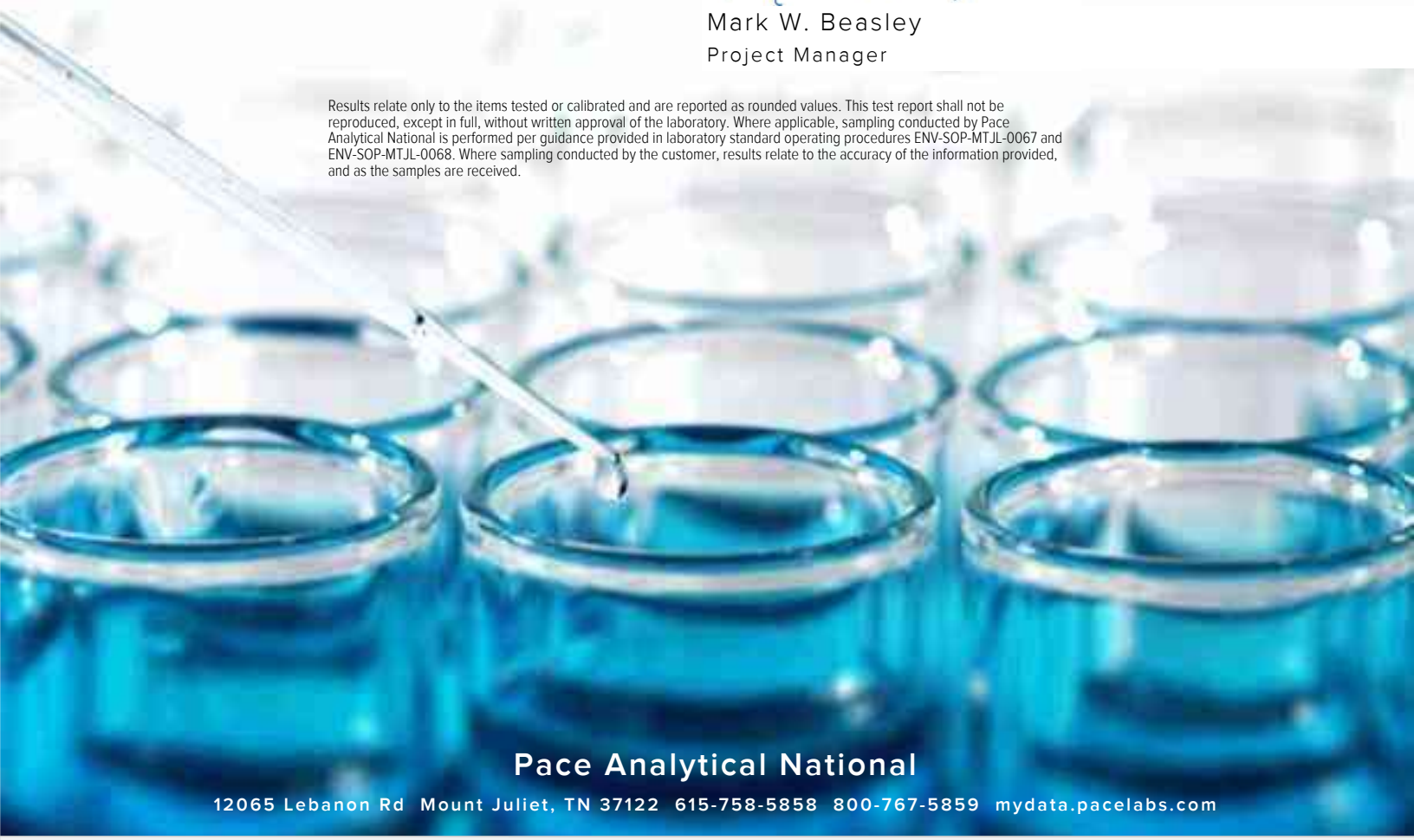
Sample Delivery Group:	L1913323
Samples Received:	10/23/2025
Project Number:	A24-01343
Description:	Plum Point Energy Station

Report To: Melissa Vaught
2739 SCR 623
Osceola, AR 72370

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

MW-104 L1913323-01

Collected by: Michael Clayton | Collected date/time: 10/20/25 11:10 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2631550	1	11/02/25 21:54	11/02/25 21:54	ZSA	Mt. Juliet, TN

MW-116 L1913323-02

Collected by: Michael Clayton | Collected date/time: 10/21/25 11:15 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2633030	1	11/04/25 19:27	11/05/25 01:05	MAP	Mt. Juliet, TN

MW-117 L1913323-03

Collected by: Michael Clayton | Collected date/time: 10/21/25 13:55 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2631495	1	11/03/25 20:51	11/03/25 20:51	GEB	Mt. Juliet, TN

MW-118 L1913323-04

Collected by: Michael Clayton | Collected date/time: 10/20/25 14:10 | Received date/time: 10/23/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2631495	1	11/03/25 21:34	11/03/25 21:34	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2633030	1	11/04/25 19:27	11/05/25 01:07	MAP	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

Report Revision History

Level II Report - Version 1: 11/07/25 15:53

Project Narrative

Corrected sample dates/times

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	6720		637	5000	1	11/02/2025 21:54	WG2631550

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Calcium	134000		153	1000	1	11/05/2025 01:05	WG2633030

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	6500		637	5000	1	11/03/2025 20:51	WG2631495

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	29300		637	5000	1	11/03/2025 21:34	WG2631495

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Calcium	104000		153	1000	1	11/05/2025 01:07	WG2633030

Method Blank (MB)

(MB) R4297803-1 11/03/25 20:30

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Sulfate	U		637	5000

L1913323-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1913323-03 11/03/25 20:51 • (DUP) R4297803-3 11/03/25 21:02

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	6500	6410	1	1.33		15

L1913323-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1913323-04 11/03/25 21:34 • (DUP) R4297803-6 11/03/25 21:44

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	29300	29300	1	0.0975		15

Laboratory Control Sample (LCS)

(LCS) R4297803-2 11/03/25 20:40

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40000	40100	100	80.0-120	

L1913323-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1913323-03 11/03/25 20:51 • (MS) R4297803-4 11/03/25 21:12 • (MSD) R4297803-5 11/03/25 21:23

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sulfate	40000	6500	44100	43900	93.9	93.5	1	80.0-120			0.343	15

L1913323-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1913323-04 11/03/25 21:34 • (MS) R4297803-7 11/03/25 21:55

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Sulfate	40000	29300	62500	82.9	1	80.0-120	

Method Blank (MB)

(MB) R4296577-1 11/02/25 21:31

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Sulfate	U		637	5000

L1913397-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1913397-05 11/05/25 13:39 • (DUP) R4297201-1 11/05/25 13:50

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	167000	193000	5	14.0		15

L1913397-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1913397-06 11/05/25 14:02 • (DUP) R4297201-2 11/05/25 14:13

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	130000	139000	5	6.81		15

Sample Narrative:

OS: Dilution due to matrix impact on instrumentation at lower dilution

Laboratory Control Sample (LCS)

(LCS) R4296577-2 11/02/25 21:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40000	36600	91.4	80.0-120	

L1913397-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1913397-05 11/02/25 23:26 • (MS) R4296577-4 11/02/25 23:48 • (MSD) R4296577-5 11/03/25 00:00

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sulfate	40000	150000	171000	164000	50.3	32.7	1	80.0-120	E J6	E J6	4.21	15

L1913397-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1913397-06 11/03/25 00:11 • (MS) R4296577-7 11/03/25 00:34

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Sulfate	40000	121000	139000	45.7	1	80.0-120	E J6

Method Blank (MB)

(MB) R4296430-1 11/05/25 00:22

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Calcium	U		153	1000

Laboratory Control Sample (LCS)

(LCS) R4296430-2 11/05/25 00:24

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Calcium	10000	9370	93.7	80.0-120	

L1913307-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1913307-10 11/05/25 00:26 • (MS) R4296430-4 11/05/25 00:29 • (MSD) R4296430-5 11/05/25 00:31

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Calcium	10000	29400	38000	37600	85.6	81.6	1	75.0-125			1.08	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Plum Point Services Co., LLC

2739 SCR 623
Osceola, AR 72370

Billing Information:
Accounts Payable
P.O. Box 567
Osceola, AR 72370

Report to:
Melissa Vaught 501-920-9642

Email To:
mvaught@olsson.com;mclayton@olsson.com;a

Project Description:
Plum Point Energy Station

City/State Collected: OSCEOLA AR

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
A24-01343

Lab Project #
NAESOAR-PLUMPOINT

Collected by (print):
Michael Clayton

Site/Facility ID #

P.O. #
2025-00048

Collected by (signature):
Immediately
Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE
L1913323
MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1910115 SW 10/31/25

T: F075

Acctnum: NAESOAR
Template: T175308
Prelogin: P1181281
PM: 134 - Mark W. Beasley
PB: 10/01/25 CG
Shipped Via: FedEx Ground

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cl, F, SO4 125mlHDPE-NoPres	TDS 250mlHDPE-NoPres	Total B, Ca 250mlHDPE-HNO3	Remarks	Sample # (lab only)
MW-101	Grab	GW		10/21/25	1015	3	X	X	X		01
MW-102		GW		10/21/25	1220	3	X	X	X		02
MW-103		GW		10/20/25	1510	3	X	X	X		03
MW-104		GW		10/20/25	1110	3	X	X	X	-01	04
MW-108		GW				3	X	X	X		
MW-110		GW				3	X	X	X		
MW-113		GW				3	X	X	X		
MW-115		GW				3	X	X	X		
MW-116		GW		10/21/25	1115	3	X	X	X	02	05
MW-117		GW		10/21/25	1355	3	X	X	X	03	06

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Michael Clayton	10/22/25	1400	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: Multi °C Bottles Received: 36

Date: 10-23-25 Time: 0900

If PH - 10BDH.111
TRC - 3223A228 ate/Time

Hold:

Condition: NCF / OK

Company Name/Address:
Plum Point Services Co., LLC

2739 SCR 623
Osceola, AR 72370

Billing Information:
Accounts Payable
P.O. Box 567
Osceola, AR 72370

Report to:
Melissa Vaught 501-920-9642

Email To:
mvaught@olsson.com;mclayton@olsson.com;a

Project Description:
Plum Point Energy Station

City/State Collected: Osceola, Ar

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
A24-01343

Lab Project #
NAESOAR-PLUMPOINT

Collected by (print):
Michael Clayton

Site/Facility ID #

P.O. #
2025-00048

Collected by (signature):

Immediately Packed on Ice N ___ Y V

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Chain of Custody Page 9 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1913323

Table # L1913323

Acctnum: **NAESOAR**
Template: **T175308**
Prelogin: **P1181281**
PM: **134 - Mark W. Beasley**
PB: 10/21/25C6

Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cl, F, SO4 125mlHDPE-NoPres	TDS 250mlHDPE-NoPres	Total B, Ca 250mlHDPE-HNO3	Remarks	Sample # (lab only)
MW-118	GRAB	GW		10/20/25	1410	3	X	X	X	-04	07
MW-119		GW		10/20/25	1610	3	X	X	X		08
MW-120		GW		10/20/25	1205	3	X	X	X		09
MW-121		GW		10/20/25	1305	3	X	X	X		10
MW-102 DUP		GW		10/21/25	1225	3	X	X	X		11
EPA EB-1		GW		10/21/25	1445	3	X	X	X		12
		GW				3	X	X	X		
		GW				3	X	X	X		
		GW				3	X	X	X		

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: X NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: X Y __N
RAD Screen <0.5 mR/hr: X Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	10/22/25	1400	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes (No) HCL / MeoH TBR

Temp: multi °C Bottles Received: 36

Date: 10-23-25 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

L1913323

R5

L1910715 *NAESOAR* relog

Relog the following as R5 due 11/7:

L1910715-04 SULFATE
L1910715-05 CAICP
L1910715-06 SULFATE
L1910715-07 CAICP, SULFATE

From: Melissa Vaught <mvaught@olsson.com>
Sent: Friday, October 31, 2025 8:11 AM
To: Mark Beasley <Mark.Beasley@pacelabs.com>
Cc: Andrew Pruitt <apruitt@olsson.com>
Subject: RE: Pace Analytical National Level II Report for A24-01343 Plum Point Energy Station L1910715

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Mark – For this PPES lab report, could you have the lab double check and if confirmed, rerun the following well/parameter pairs, if within hold:

MW-104 - Sulfate

MW-116 - Calcium

MW-117 – Sulfate

MW-118 – Calcium and Sulfate

Questions, please let me know.

Melissa

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P Please consider the environment before printing this email

Time estimate: oh **Time spent:** oh

Members

MB Mark Beasley (responsible)

ANALYTICAL REPORT

December 26, 2025

Plum Point Services Co., LLC

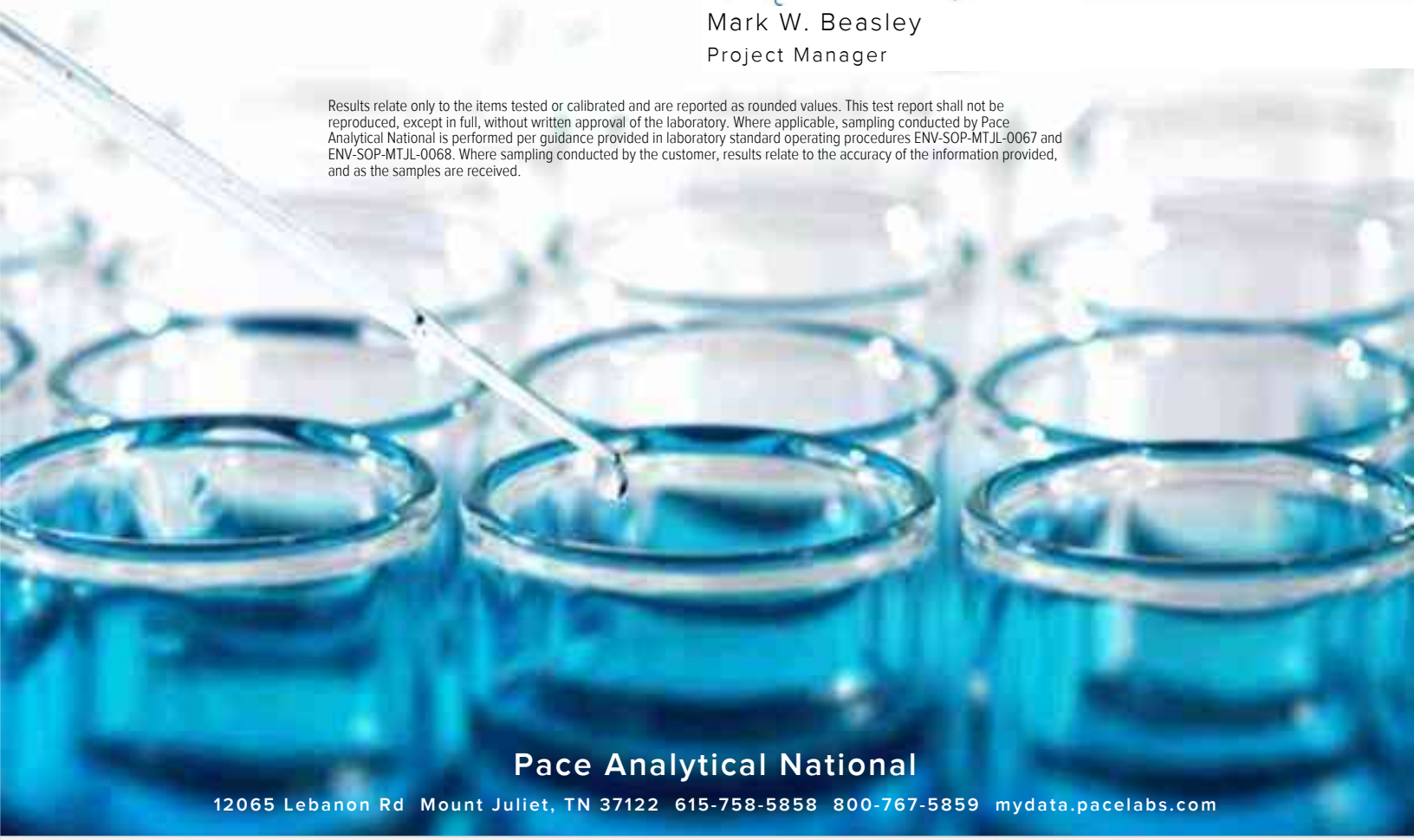
Sample Delivery Group:	L1929383
Samples Received:	12/18/2025
Project Number:	A24-01343
Description:	Plum Point Energy Station Landfill

Report To: Melissa Vaught
2739 SCR 623
Osceola, AR 72370

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MW-117 L1929383-01

Collected by: Michael Clayton | Collected date/time: 12/16/25 15:45 | Received date/time: 12/18/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2661939	1	12/19/25 08:01	12/22/25 13:33	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2661808	1	12/21/25 07:03	12/21/25 07:03	TRL	Mt. Juliet, TN

MW-118 L1929383-02

Collected by: Michael Clayton | Collected date/time: 12/16/25 14:20 | Received date/time: 12/18/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2661939	1	12/19/25 08:01	12/22/25 13:33	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2661808	1	12/21/25 07:13	12/21/25 07:13	TRL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2661896	1	12/23/25 10:23	12/23/25 18:25	NMM	Mt. Juliet, TN

MW-118 DUP L1929383-03

Collected by: Michael Clayton | Collected date/time: 12/16/25 14:25 | Received date/time: 12/18/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2661939	1	12/19/25 08:01	12/22/25 13:33	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2661808	1	12/21/25 07:24	12/21/25 07:24	TRL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2661896	1	12/23/25 10:23	12/23/25 18:27	NMM	Mt. Juliet, TN

MW-121 L1929383-04

Collected by: Michael Clayton | Collected date/time: 12/16/25 13:10 | Received date/time: 12/18/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2661939	1	12/19/25 08:01	12/22/25 13:33	AMG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2661896	1	12/23/25 10:23	12/23/25 17:25	NMM	Mt. Juliet, TN

EPA EB-2 L1929383-05

Collected by: Michael Clayton | Collected date/time: 12/16/25 16:00 | Received date/time: 12/18/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2661939	1	12/19/25 08:01	12/22/25 13:33	AMG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2661808	1	12/21/25 07:35	12/21/25 07:35	TRL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2661896	1	12/23/25 10:23	12/23/25 18:29	NMM	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	318000		10000	1	12/22/2025 13:33	WG2661939

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	902	J	547	1000	1	12/21/2025 07:03	WG2661808
Fluoride	141	J	76.1	150	1	12/21/2025 07:03	WG2661808

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	336000		10000	1	12/22/2025 13:33	WG2661939

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	25800		637	5000	1	12/21/2025 07:13	WG2661808

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Calcium	97800		153	1000	1	12/23/2025 18:25	WG2661896

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	345000		10000	1	12/22/2025 13:33	WG2661939

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	26900		637	5000	1	12/21/2025 07:24	WG2661808

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Calcium	96700		153	1000	1	12/23/2025 18:27	WG2661896

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	196000		10000	1	12/22/2025 13:33	WG2661939

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Calcium	45300		153	1000	1	12/23/2025 17:25	WG2661896

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10000	1	12/22/2025 13:33	WG2661939

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	U		547	1000	1	12/21/2025 07:35	WG2661808
Fluoride	104	J	76.1	150	1	12/21/2025 07:35	WG2661808
Sulfate	865	J	637	5000	1	12/21/2025 07:35	WG2661808

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Calcium	U		153	1000	1	12/23/2025 18:29	WG2661896

Method Blank (MB)

(MB) R4318078-1 12/22/25 13:33

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Dissolved Solids	U		10000	10000

L1929383-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1929383-01 12/22/25 13:33 • (DUP) R4318078-3 12/22/25 13:33

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Dissolved Solids	318000	325000	1	2.18		10

L1929419-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1929419-02 12/22/25 13:33 • (DUP) R4318078-4 12/22/25 13:33

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Dissolved Solids	1240000	1220000	1	1.83		10

Laboratory Control Sample (LCS)

(LCS) R4318078-2 12/22/25 13:33

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Dissolved Solids	8800000	8480000	96.4	90.0-110	

Method Blank (MB)

(MB) R4317463-1 12/21/25 00:48

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		547	1000
Fluoride	U		76.1	150
Sulfate	U		637	5000

L1929259-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1929259-01 12/21/25 01:11 • (DUP) R4317463-3 12/21/25 01:23

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	38400	38500	1	0.170		15
Fluoride	340	355	1	4.32		15
Sulfate	25400	25500	1	0.310		15

L1929259-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1929259-02 12/21/25 01:57 • (DUP) R4317463-6 12/21/25 02:08

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	61300	62000	1	1.22		15
Fluoride	456	490	1	7.19		15
Sulfate	22900	23200	1	1.33		15

Laboratory Control Sample (LCS)

(LCS) R4317463-2 12/21/25 01:00

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	39400	98.5	80.0-120	
Fluoride	8000	8240	103	80.0-120	
Sulfate	40000	40500	101	80.0-120	

L1929259-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1929259-01 12/21/25 01:11 • (MS) R4317463-4 12/21/25 01:34 • (MSD) R4317463-5 12/21/25 01:45

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	38400	71000	71100	81.5	81.8	1	80.0-120			0.184	15
Fluoride	8000	340	8270	8300	99.2	99.5	1	80.0-120			0.361	15
Sulfate	40000	25400	61200	61300	89.6	89.7	1	80.0-120			0.0714	15

L1929259-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1929259-02 12/21/25 01:57 • (MS) R4317463-7 12/21/25 02:19

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	61300	89500	70.4	1	80.0-120	J6
Fluoride	8000	456	8410	99.4	1	80.0-120	
Sulfate	40000	22900	59400	91.2	1	80.0-120	

Method Blank (MB)

(MB) R4318318-1 12/23/25 17:20

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Calcium	U		153	1000

Laboratory Control Sample (LCS)

(LCS) R4318318-2 12/23/25 17:23

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Calcium	10000	9950	99.5	80.0-120	

L1929383-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1929383-04 12/23/25 17:25 • (MS) R4318318-4 12/23/25 17:30 • (MSD) R4318318-5 12/23/25 17:32

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Calcium	10000	45300	53900	54200	85.6	89.3	1	75.0-125			0.686	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Plum Point Services Co., LLC

2739 SCR 623
Osceola, AR 72370

Accounts Payable
P.O. Box 567
Osceola, AR 72370

CHK

Report to:
Melissa Vaught 501-920-9642

Email To:
mvaught@olsson.com;mclayton@olsson.com;a

Project Description:
Plum Point Energy Station Landfill

City/State Collected: Osceola AR

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
A24-01343

Lab Project #
NAESOAR-PLUMPOINT

Collected by (print):
Michael Clayton

Site/Facility ID #

P.O. #
2025-00048

Collected by (signature):
Michael Clayton

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Ca 250mlHDPE-HNO3	Cl, F, SO4 125mlHDPE-NoPres	Cl, Fl 125mlHDPE-NoPres	Sulfate 125mlHDPE-NoPres	TDS 1L-HDPE NoPres					Remarks	Sample # (lab only)
MW-117	Grab	GW		12/16/25	1515	2			X		X						-01
MW-118	↓	GW		12/16/25	1420	3	X			X	X						-02
MW-118 DUP		GW		12/16/25	1425	3	X			X	X						-03
MW-121		GW		12/16/25	1310	2	X				X						-04
EPA EB-2		GW		12/16/25	1600	3	X	X			X						-05
		GW				3	X	X			X						

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1929383

Table **C176**

Acctnum: **NAESOAR**
Template: **T285427**
Prelogin: **P1195640**
PM: **134 - Mark W. Beasley**
PB:

Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Michael Clayton	12/17/25	1700	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Valerie Davis

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: °C Bottles Received: 13
TL 0916.8 tc 12/18

Date: 12/18/25 Time: 0844

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

ANALYTICAL REPORT

December 30, 2025

Plum Point Services Co., LLC

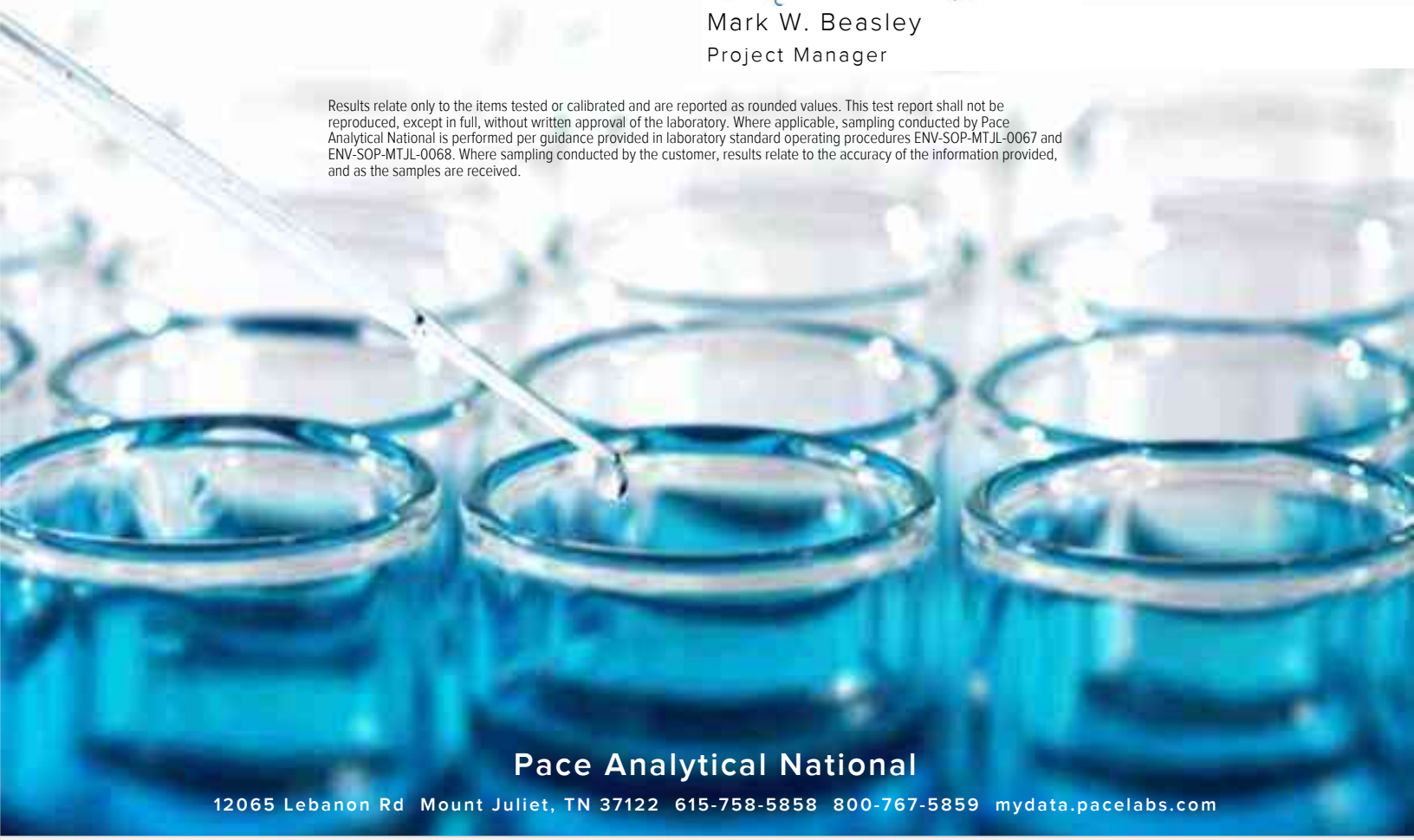
Sample Delivery Group:	L1931323
Samples Received:	12/18/2025
Project Number:	A24-01343
Description:	Plum Point Energy Station Landfill

Report To: Melissa Vaught
2739 SCR 623
Osceola, AR 72370

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MW-118 L1931323-01

Collected by: Michael Clayton
Collected date/time: 12/16/25 14:20
Received date/time: 12/18/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2666241	1	12/29/25 23:53	12/30/25 10:53	MAP	Mt. Juliet, TN

MW-118 DUP L1931323-02

Collected by: Michael Clayton
Collected date/time: 12/16/25 14:25
Received date/time: 12/18/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2666241	1	12/29/25 23:53	12/30/25 10:56	MAP	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Calcium	97200		153	1000	1	12/30/2025 10:53	WG2666241

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Calcium	96600		153	1000	1	12/30/2025 10:56	WG2666241

Method Blank (MB)

(MB) R4320230-1 12/30/25 10:15

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Calcium	U		153	1000

Laboratory Control Sample (LCS)

(LCS) R4320230-2 12/30/25 10:17

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Calcium	10000	10300	103	80.0-120	

L1931309-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1931309-01 12/30/25 10:20 • (MS) R4320230-4 12/30/25 10:24 • (MSD) R4320230-5 12/30/25 10:27

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Calcium	10000	110000	117000	116000	74.1	65.1	1	75.0-125	V	V	0.773	20

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Qualifier	Description
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

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* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Plum Point Energy Station, LLC

2739 SCR 623
Osceola, AR 72370

Accounts Payable
P.O. Box 567
Osceola, AR 72370

Report to: **Melissa Vaught 501-920-9642**

Email To: mvaught@olsson.com;mclayton@olsson.com;a

Project Description: **Plum Point Energy Station Landfill**

City/State Collected: Osceola AR

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project # **A24-01343**

Lab Project # **NAESOAR-PLUMPOINT**

Collected by (print): Michael Clayton

Collected by (signature): Michael Clayton

Immediately Packed on Ice N ___ Y ✓

Site/Facility ID #

P.O. # **2025-00048**

Quote #

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Ca 250mlHDPE-HNO3	Cl, F, SO4 125mlHDPE-NoPres	Cl, Fl 125mlHDPE-NoPres	Sulfate 125mlHDPE-NoPres	TDS 1LHDPE NoPres						
MW-117	Grab	GW		12/16/25	1515	2			X		X						-01
MW-118	↓	GW		12/16/25	1420	3	X			X	X						-02
MW-118 DUP		GW		12/16/25	1425	3	X			X	X						-03
MW-121		GW		12/16/25	1310	2	X				X						-04
EPA EB-2	↓	GW		12/16/25	1600	3	X	X			X						-05
		GW				3	X	X			X						

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # ~~L1921383~~ 12/29/25 NV

Table C176 L1931323

Acctnum: **NAESOAR**

Template: **T285427**

Prelogin: **P1195640**

PM: **134 - Mark W. Beasley**

PB:

Shipped Via: **FedEX Ground**

Remarks	Sample # (lab only)
	-01
	-02 -01
	-03 -02
	-04
	-05

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Michael Clayton	12/17/25	1700	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Vdavis

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: °C Bottles Received: 13
TT 1.8 to 3.18

Date: 12/18/25 Time: 0844

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

L1929383 *NAESOAR* relog

R2/R3/R4/RX/EX

Relog L1929383-02 & -03 for CAICP. Log as EX due 1/2.

Thanks

Mark Beasley

Manager – Client Operations / National

12065 Lebanon Road | Mt. Juliet, TN 37122

Office: 615.773.9672 | Cell: 615.330.1602

mark.beasley@pacelabs.com

--- Email body truncated due to large size. Full email body added as attachment. ---

Time estimate: oh **Time spent:** oh

Members

MB Mark Beasley (responsible)

PLUM POINT ENERGY STATION CCR LANDFILL GROUNDWATER MONITORING AND CORRECTIVE ACTION 2025 ANNUAL REPORT

Osceola, Arkansas

January 2026

Olsson Project No. A24-01343